

PROGRAM



IUNS 20th International Congress of Nutrition

GRANADA (SPAIN), SEPTEMBER 15-20, 2013

*“Joining Cultures
Through Nutrition”*

Hosted by



www.icn2013.com



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Dear colleagues and friends,

On behalf of the Spanish Society of Nutrition (SEÑ) and the Organizing Committee I am pleased to welcome you to Granada, Spain, to the IUNS 20th International Congress of Nutrition (ICN) and enjoy the scientific and cultural activities we have designed and developed for the last four years.

Granada, through its history has been open to different cultures, people and beliefs. In this regard, we are trying to offer you a great, modern and attractive Congress, joining different cultures, traditions and knowledge throughout the new aspects of Nutrition research, development and innovation all around the world. Indeed, the selected theme “Joining Cultures Through Nutrition” conveys nutrition and healthy lifestyles for everyone in a sustainable environment.

The Congress Program Committee, with the support of the IUNS Council, the International Scientific Committee and the Local Scientific Committee members, has been working hard to develop an outstanding program of scientific excellence divided into eight main tracks covering a broad range of topics, namely: Advances in nutrition research, Nutrition through life course, Public health nutrition and environment, Nutrition and management of diseases, Nutrients and nutritional assessment, Functional foods and bioactive compounds, Food culture practices and nutritional education, and Agriculture, food science and safety.

During the course of the six-day IUNS 20th ICN, more than 4,000 participants from over 120 countries will be actively engaging in the congress, and over 700 internationally renowned nutritional scientists, researchers and clinicians will share the latest in the field of nutrition through 6 plenary lectures, 32 special lectures, 4 debates, 90 parallel symposia, 38 sponsored symposia and 16 satellite symposia.

For the first time, in parallel to the IUNS 20th ICN, the Iberoamerican Nutrition Foundation (FINUT), a non-profit-making organization set up in February 2011 which trustees are the SEÑ and IUNS, have promoted and organized an exhibition about “Healthy food, nutrition and lifestyles within a sustainable environment” in collaboration with Parque de las Ciencias (Granada) entitled “Nutrition, Source of Life”. This project is aimed above all at the general public, who, by means of a simple, attractive and enjoyable exhibition presentation, can discover the fundamental concepts in relation to food and nutrition that anyone can put into practice to improve their health and enjoy a better quality of life. The visit of this exhibition is offered free for all IUNS 20th ICN delegates at Parque de las Ciencias, Granada.

Despite the European economic crisis affecting specially Spain, we are pleased to have received financial assistance from a number of international agencies, national and local institutions and the nutrition industry to organize this congress and to support the participation of nutrition scientists and professionals from developing countries and young scientists through travel grants. Indeed, the IUNS 20th ICN provided subsidized rates for students and delegates from low- and middle- income countries.

Granada is a historic and world renowned city for its beauty and culture. Besides the famous Alhambra, it also has a significant number of arabic, gothic, renaissance and baroque monuments, as well as countless palaces, traditional houses, unexpected corners and courtyards, together with attractive squares. We hope all ICN delegates can enjoy Granada and the traditional Andalusian hospitality as well as the social activities we have prepared where you can meet with colleagues and friends from all regions of the world.

Our wish is that you have a fruitful and successful IUNS 20th ICN, enjoy your stay and leave Granada with unforgettable fond memories. With the collaboration and support of all attendants and with the spirit of partnership and working together we hope that achieving the goal of “Joining Cultures Through Nutrition” is a fact.

Prof. Angel Gil

Congress President

Chairman IUNS 20th ICN Organizing Committee

President of the Spanish Society of Nutrition



Dear Participants of the IUNS 20th ICN,

Since its founding over six decades ago, IUNS remained true to the guiding principle of its mission "to promote the advancement of the science of nutrition, research, and development through international cooperation globally". The International Congress of Nutrition (ICN) serves as its global forum of interactions in research and information exchange and topical subjects often formed the basis for substantial parts of the scientific programme.

Traditionally, the ICN offers the unique global forum where almost all disciplines of nutrition, diet, and health are considered and results of basic and applied research projects are presented. Also traditional is the fact that ICN is used as recognised platform to discuss research outcomes and views of projects conducted at multinational, regional, and global level.

From 15th to 20th September 2013, the IUNS 20th ICN of the IUNS will be held in Granada, Spain, under the title "Joining Cultures through Nutrition".

The ICN is organised every four years by a different adhering body and normally in a different region of the world. In order to increase the awareness of our organisation and facilitate more opportunities for young nutrition scientists to share their experience with the international scientific community, IUNS decided to shorten the intervals between the great scientific events to have an international scientific congress biennially.

Transparent in all actions, IUNS works in partnerships but places public interests first. Scientists representing IUNS are involved in different activities of organisation and agencies of the UN System carried out at regional and global levels such as NCD prevention, food and nutrition surveillance systems, food quality and safety, monitoring and evaluation of nutrition intervention programmes, SUN movement etc.

To facilitate cooperation with the private sector to sponsor the organisation of its scientific events, IUNS published guidelines, which are binding for fundraising efforts of the host of the ICN http://www.unscn.org/files/Publications/SCN_News/SCNNEWS39_10.01_low_def.pdf. Connections to the private sector should be encouraged but chosen carefully always bearing in mind the independent science-based and credible profile of IUNS.

IUNS has an established record in capacity development and in Nutrition Leadership with some success stories in countries of Asia, Africa, and the Middle East and in 2011 IUNS and the Spanish Society of Nutrition established the Foundation for the Development of Nutrition in Iberoamerica, (Fundacion Iberoamericana de Nutricion (FINUT)). However, existing competing interests of other international organisations with overlapping goals remain to be discussed and minimized by the IUNS Council in the near future.

IUNS is member of the International Council of Sciences (ICSU), participates in different current activities, such as the CODATA- Nanomaterials project. IUNS is also member of the ICSU Bio-Unions Cluster which aims to develop a concept of "Systems Biology" that addresses the diverse needs of the participating unions. The ICSU Bio-unions organized already two joint symposia, the one was on "Unraveling the Globesity Puzzle (2012)" and the second on "Multi-scale Systems Biology (2013)".

In the last quadrennium, institution-born issues like the new registration of IUNS, the "fighting" over the iuns.org web domain, establishing a functioning administrative office (secretariat) presented a great challenge, but in the end were satisfactorily managed by the honest and dedicated participation of all council members. I was privileged to lead IUNS in the term 2009-2013 and wish my successor(s) who will be in charge of other probably greater challenges much success.

Professor I. Elmadfa

Emer. Professor of Nutrition, University of Vienna
President of IUNS 2009-2013

Honorary presidency of the IUNS – 20th International Congress of Nutrition
Her Majesty Queen Sofia of Spain

Honour Committee

Her Excellency Mrs. Ana Mato
Health Minister

Honorable Jose Torres Hurtado
Mayor of Granada

His Excellency Mr. Miguel Arias Cañete
Minister of Agriculture, Food and Environment

Prof. Francisco Gonzalez Lodeiro
Rector of the University of Granada

Mr. Jose Antonio Griñan Martinez
President of the Junta of Andalusia

Prof. Angel Gil
President and Chairman IUNS 20th ICN

Ms. Maria Jesus Montero Cuadrado
Andalusian Counsellor of Health and Social Welfare

International Scientific Committee

President: *J. Alfredo Martinez*

Vice-President: *Luis Moreno*

Boeing, Heiner

Brand-Miller, Jennie

Bressan, Josefina

Brighenti, Furio

Caballero, Benjamin

Cabre, Eduard

Calder, Philip

Campoy, Cristina

Chen, Junshi

De Girolami, Daniel

De Henauw, Stefaan

Elmadfa, Ibrahim

Fergusson, Lynette

Fisberg, Mauro

Gurinovic, Mirjana

Handjieva-Darlenska, Theodora

Hu, Frank

Koletzko, Berthold

Kurpad, Anura

Lairon, Denis

Lin, Xu

Lonnerdal, Bo L.

Macdonald, Ian

Marcos, Ascension

Martorell, Reynaldo

Hill, James O.

Heseker, Helmut

Ordovas, Jose M.

Palou, Andreu

Perez Jimenez, Francisco

Pratt, Michael

Raben, Anne Birgitte

Schlegel-Zawadzka, Malgorzata

Serra-Majem, Lluís

Trichopoulos, Antonia

Uauy, Ricardo

Vaz de Almeida, Maria Daniel

Vorster, Este

Wasantwisut, Emorn

Young Paik, Hee

Zavaleta, Nelly

Organizing Committee

President: *Angel Gil*

Vice-President: *Ascension Marcos*

Aguilera, Concepcion

Aranda, Pilar

Elmadfa, Ibrahim

Farre, Rosaura

Gil-Extremuera, Blas

Hernandez-Triana, Manuel

Lopez Jurado, Maria

Martinez-Augustin, Olga

Martinez de Victoria, Emilio

Martinez, J. Alfredo

Ruiz, M^a Dolores

Salas-Salvado, Jordi

Sanchez-Pozo, Antonio

Suarez, M^a Dolores

Local Scientific Committee

Aguilera, Concepcion

Artacho, Reyes

Yago, Maria Dolores

Fernandez, Marieta

Fontana, Luis

Gil-Campos, Mercedes

Guadix, Antonio

Martinez-Augustin, Olga

Navarro, Miguel

Ortega, Francisco

Ruiz, Jonatan

Sanchez de Medina, Fermin

International and national agencies

The support of the following agencies, associations and non-governmental institutions for organizing specific symposia and sponsoring keynote speakers is highly appreciated:

- | | |
|--|---|
| Alive & Thrive | International Union of Nutritional Sciences (IUNS) |
| American Society of Nutrition (ASN) | ISCOLE: International Study of Childhood Obesity, Lifestyle and the Environment |
| Asociacion Iberoamericana de Facultades y Escuelas de Nutricion (AIFEN) | Japan Society of Nutrition and Food Science (JSNFS) |
| Association for Nutrition (AfN) | Japanese Society of Amino Acid Sciences (JSAAS) |
| Bill & Bellinda Gates Foundation | Micronutrient Forum |
| Chances Hellenic | National Institutes of Health (NIH) of the United States of America |
| Chinese Nutrition Society | Nutrition Innovation Lab. (Asia and Africa), Friedman School of Nutrition Science and Policy Tufts University |
| Choices International Foundation | Nutricion sin fronteras |
| Daniel & Nina Carasso Foundation | The Nutrition Society |
| EPODE International Network | Rae Galloway, Maternal and Child Health Integrated Program |
| European Association for the Study of Obesity (EASO) | Save the Children and the International Food Policy Research Institute |
| European Commission Research & Innovation | Spanish Ministry of Agriculture, Food and Environment (MAGRAMA) |
| European Federation of Bottled Waters (EFBW) | Sociedad Española de Nutricion (SEÑ) |
| European Hydration Institute (EHI) | Sociedad Latinoamericana de Nutricion (SLAN) |
| European Nutrition Leadership Programme (ENLP) | SPRING Project JSI Research & Training Institute, Inc. |
| European Society for Paediatric Gastroenterology Hepatology and Nutrition (ESPGHAN) | Sight & Life |
| European Union: European Fishing Fund | The COHORTS collaboration |
| Federacion Española de Sociedades de Nutricion (FESNAD) | The European Food Information Council (EUFIC) |
| Federacion Latinoamericana de Terapia Nutricional, Nutricion Clinica y Metabolismo (FELANPE) | The European Society for Clinical Nutrition and Metabolism (ESPEN) |
| Federation of Asian Nutrition Societies (FANS) | The George Institute |
| Federation of European Nutrition Societies (FENS) | The Global Iodine Nutrition Network (ICCIDD) |
| Food and Agriculture Organization of the United Nations (FAO) | The International Association for the Study of Obesity (IASO) |
| Fundacion Iberoamericana de Nutricion (FINUT) | The Malaysian Association for the study of Obesity (MASO) |
| Global Alliance for Improved Nutrition (GAIN) | Tufts University's Food Aid Quality Review |
| HarvestPlus / IFPRI | University of Granada, Spain |
| Helen Keller International | USAID's Office of Food for Peace |
| Hydration for Health Initiative | World Bank |
| International Food Policy Research Institute (IFPRI) | World Cancer Research Fund International/ American Institute for Cancer Reserch (WCRF/AICAR)) |
| Instituto de Estudios Documentales del Azucar y la Remolacha (IEDAR) | World Food Programme |
| International Life Science Institute (ILSI) | World Health Organization |
| International Atomic Energy Agency (IAEA) | |
| Nevin Schrimshaw International Nutrition Foundation (INF) | |
| International Malnutrition Task Force (IMTF) | |
| International Society for Developmental Origins of Health and Disease (DOHaD) | |
| International Union of Food Science and Technology (IUFoST) | |

Nutrition and food companies

We would like to thank the following nutrition and food companies for their sponsorship:

PLATINUM SPONSORS



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SILVER SPONSORS





OTHER SPONSORS

Alpro	ICC Services GmbH
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Bel	Inra Transfert
Beneo	Japan Society of Nutrition and Food Science (JSNFS)
Biologica	Karger
Biopolis	Mars
Bimbo	Mead Johnson Nutrition
Cambridge University Press	Nature Publishing Group
Campofrio	Nueces de California
Carolina Population Center	Puratos
Central Lechera Asturiana	Roquette
Cerveza y Salud	Schuttelaar & Partners
Cinfa	Seca
Danone Institute	Senifood
Danone Research	Solutex
Deoleo	Tanita
Editorial Medica Panamericana	Tate & Lyle
El Pozo	Taylor and Francis
European Federation of Bottled Waters (EFBW)	Ternasco de Aragón
Federación de Alimentos de Calidad de Granada	Tragsa
Federación Nacional de Industrias Lacteas (FENIL)	UIB
Friesland Campina	Vegenat
Global Dairy Platform (GDP)	Wisepress

Support for Inserts into the Congress bags were received from

Daniel & Nina Carasso Foundation
El Pozo
Bel
Sight and Life
Taylor & Francis Group
Ternasco de Aragón

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Choices International Foundation
Daniel & Nina Carasso Foundation
El Pozo
European Nutrition Leadership Platform (ENLP)
Instituto de Estudios Documentales del Azúcar y la Remolacha (IEDAR)
Nestlé Nutrition
Tate & Lyle
The Coca-Cola Company
Unilever

Abstracts

The International Union of Nutritional Sciences (IUNS) and the 20th International Congress of Nutrition (ICN) wish to thank The Coca-Cola Co. for generously providing an educational grant to support the publication and distribution of the abstracts for Parallel Symposia, Selected Oral Communications and Posters from the IUNS 20th ICN. The abstracts have been published in a special Supplement of Annals of Nutrition and Metabolism [Ann Nutr Metab 63(suppl1) 1–1960 (2013)] available in a pen-drive to all IUNS 20th ICN meeting attendees in the Congress bag and on-line through <http://www.karger.com/Journal/Home/223977>.

**Proceedings**

The International Union of Nutritional Sciences (IUNS) and the 20th International Congress of Nutrition (ICN) wish to thank the California Walnut Commission and Mead Johnson Nutrition for generously providing educational grants to support the publication and distribution of proceedings from the IUNS 20th ICN. The proceedings, which will include selected presentations for Plenary and Special Lectures from the ICN meeting, will be published in a forthcoming issue of the journal *Advances in Nutrition*. All IUNS 20th ICN meeting attendees will be able to access the proceedings from the journal website (www.nutrition.org) upon publication.



IUNS Council Members

President: *Ibrahim Elmadfa (Austria)*
President-Elect: *Anna Lartey (Ghana)*
Vice-President: *Lindsay Allen (USA)*
Treasurer: *Suzanne Murphy (USA)*
Secretary General: *Rekia Belahsen (Morocco)*

Vocals

Martinez, J. Alfredo (Spain)
Ndossi, Godwin D. (Tanzania)
Prakash, Vishveshwaraiah (India)
Schlegel-Zawadzka, Malgorzata (Poland)
Wasantwisut, Emorn (Thailand)
Yang, Xiaoguang (China)

IUNS Council has been allocated a room on the 2nd floor and named as “IUNS Room”

Schedule of IUNS Business Sessions

Friday, September 13th

IUNS Council Meeting
IUNS room from 09.00 to 19.00

Saturday, September 14th

IUNS Nominating Committee Meeting
Seminar room 3, from 09.00 to 19.00

Monday, September 16th

IUNS Assembly (1st Part)
Andalucia Room from 19.00 to 21.00

Wednesday, September 18th

IUNS Assembly (2nd Part)
Andalucia Room from 19.00 to 21.00

SEÑ Council Members

President:	<i>Angel Gil</i>
First Vice-President:	<i>Luis Moreno</i>
Second Vice-President:	<i>Maria del Puy Portillo</i>
Treasurer:	<i>Ascension Marcos</i>
Scientific Secretary:	<i>Concepcion Aguilera</i>
SEÑ Technical Secretary:	<i>Jose Manuel Avila</i>
Past-President:	<i>Rosaura Farre</i>

Vocals:

Rosaura Farre
Marcela Gonzalez -Gross
Elvira Larque
J. Alfredo Martinez
Begoña Olmedilla
Gregorio Varela
Carmen Vidal
Salvador Zamora (Hon)

Schedule of SEÑ Business Sessions

Saturday, September 14th

SEÑ Council meeting
Seminar room 6 from 11.00 to 14.00

Tuesday, September 17th

SEÑ Assembly
Piscasso room from 19.00 to 21.00

- Asociacion Española de Dietistas y Nutricionistas (AEDN)
- Asociacion Española de Pediatría (AEP)
- Consejo General de Colegios Oficiales de Farmaceuticos (CGCOF)
- European Society for Paediatric Gastroenterology, Hepatology and Nutrition (ESPGHAN)
- Federacion Española de Sociedades de Nutricion, Alimentacion y Dietetica (FESNAD)
- Sociedad Española de Dietetica y Alimentacion (SEDCA)
- Sociedad Española de Endocrinologia y Nutricion (SEEN)
- Sociedad Española de Endocrinologia Pediatrica (SEEP)
- Sociedad Española de Gastroenterologia, Hepatologia y Nutricion Pediatrica (SEGHNP)
- Sociedad Española de Neonatologia (SENeo)
- Sociedad Española de Nutricion Comunitaria (SENC)
- Sociedad Española de Nutricion Parenteral y Enteral (SENPE)
- Sociedad Española de Patologia Digestiva (SEPD)
- Sociedad Española de Medicos de Atencion Primaria (SEMERGEN)

Wednesday 18th, 14.30-16.30
García Lorca Auditorium

IUNS Living Legends

Chair: *Ibrahim Elmadfa, University of Vienna, Vienna, Austria*

A personal view of Nutrition in Spain
Salvador Zamora, University of Murcia, Spain

A personal view of the nutrition situation in Europe
Claus Leitzman, Institute for the Science of Nutrition, Justus-Liebig-Universität of Giessen, Germany

Audiovisual presentation of selected Nutrition living legends from IUNS adhering bodies

IUNS Living Legends Award Nominees

<i>Prof. Basil S. Hetzel</i>	<i>Prof. Malaquias Batista Filho</i>
<i>Prof. György Biro</i>	<i>Prof. Jose Eduardo Dutra de Oliveira</i>
<i>Prof. Ge Keyou</i>	<i>Prof. Khun Sakorn Dhanamitta</i>
<i>Prof. Claus Leitzmann</i>	<i>Prof. Jørn Dyerberg</i>
<i>Prof. Helio Vannucchi</i>	<i>Prof. Vina Viravaidhaya</i>
<i>Prof. Salvador Zamora-Navarro</i>	<i>Prof. Mankombu Sambasivan Swaminathan</i>
<i>Prof. Mamdouh Kamal Gabr</i>	<i>Prof. Colothur Gopalan</i>

IUNS Remembers Nevin Scrimshaw

Chairs: *Lindsay Allen, Vice-President of IUNS*
Anna Lartey, President Elect of IUNS

Opening remarks

Nevin Scrimshaw and IUNS
Ibrahim Elmadfa, President of IUNS

Nevin Scrimshaw and NS-INF
Ricardo Uauy, University of Chile, Santiago de Chile, Chile

Thailand/Asia remembers Nevin
Emorn Wasantwisut, Institute of Nutrition, Mahidol University, Bangkok, Thailand

Africa Nutrition Society and the Nevin Scrimshaw award
Anna Lartey, Elected President of IUNS

INCAP/PAHO remembers Nevin
Carolina Siu, INCAP's Director
Manuel Ramirez-Zea, General Coordinator CIIPEC, Instituto de Nutricion de Centro America y Panama (INCAP)

Closing remarks

DSM Nutritional Science Award 2013



Dr. Maret Traber is the recipient of the DSM Nutritional Science Award 2013 on fundamental or applied research in Human Nutrition. This award is given to a person that showed a lifetime commitment to research on vitamin E with numerous scientific achievements and new insights into the role of this vitamin in the mammalian system. Dr. Maret Traber is a Principal Investigator and Director of the Oxidative and Nitrosative Stress Core in the Linus Pauling Institute, and Professor in the Nutrition program in the School of Biological and Population Health Sciences in the College of Public Health and Human Sciences at Oregon State University. She holds the “LPI Professorship in Micronutrient Research.” She received both undergraduate and doctoral degrees in Nutrition Science from the University of California at Berkeley.

The DSM Award lecture will be held at Machuca and Albeniz Rooms on September 17th, 19.00-20.00.

There are four registration counters:

EXHIBITORS: It will be located at the 1st floor and will be opened the following days:

Monday, September 16 th :	09.00 - 18.00
Tuesday, September 17 th :	09.00 - 18.00
Wednesday, September 18 th :	09.00 - 18.00
Thursday, September 19 th :	09.00 - 18.00
Friday, September 20 th :	09.00 - 13.00

PRE-REGISTERED DELEGATES: It is for delegates, oral presenters, poster presenters, speakers and accompanying persons that have already paid their registration fees.

NEW REGISTRATIONS: It is for delegates, oral presenters, poster presenters, speakers and accompanying persons who have not yet paid or even registered for the conference.

SOCIAL EVENTS & ACCOMMODATION: Information about tours and hotels. Extra tickets for the Social Events.

PRESS: It is the members of the Press and Mass Media.

Registration Hours

Saturday, 14 th :	17.00 - 19.30
Sunday, 15 th :	07.30 - 21.00
Monday, 16 th :	07.00 - 19.30
Tuesday, 17 th :	07.00 - 19.30
Wednesday, 18 th :	07.00 - 19.30
Thursday, 19 th :	07.30 - 19.30
Friday, 20 th :	07.30 - 14.00

Badges

Replacement of lost badges: New badges may be requested from the New Registration Counter at 10€

Name Changes

Please fill up the name change form at the New Registrations Counter

Registration Fee Types

Delegate
Exhibitor
Accompanying Person
Press
Committee
One Day Registration
Staff
Speaker

Abstract Book

There is no a hard printed abstract book, but you will find a pen-drive including the abstracts published as an on-line supplement in Annals of Nutrition and Metabolism in the Congress Bag.

Banks

Banks are open from 8.30 to 14.00 from Monday to Friday during the summer months; anyway in the congress venue you will find a Cash Machine in the Ground Floor.

Breastfeeding room

There is a breastfeeding room located on the 1st Floor.

Certificate of Attendance

You will be able to download and print your certificates at the venue (attendance, oral communication, poster, speaker, chair and reviewers) through the following link: <http://barcelo.eventszone.net/icn2013> by entering the identification number (id) you will find in your badge.

Cloakroom and luggage storage

There is a cloakroom located in the Ground Floor at the venue.

Coffee Breaks

Coffee will be served in the exhibition area each morning from Monday to Friday between 10.00 to 10.30 and Monday to Thursday from 16.30 to 17.00.

Congress Bag

The Congress Bag should be collected at the Cloakroom located in the Ground Floor presenting the voucher you will find in your badge.

Congress Courtesies

In consideration of all congress participants, cell phones should be turned off in all session rooms. Congress participants are expected to refrain from the following:

- Inflicting personal threat or harm to any congress participant
- Inflicting damage to any property
- Preventing speakers from giving their speeches
- Photographing speakers' slides

Credit Cards

Currency and Exchange: All major international credit cards are accepted. Foreign currency and traveler's checks can be exchanged in Spain at banks and foreign exchange offices.

Cash-point machines accepting major international credit cards and charge cards are available at most banks. The Spanish currency is the Euro.

Duty Free

There are no restrictions on visitors entering Spain with goods bought in another European Union member country, as long as they are for their own use and not to sell.

Exhibition Times

Monday, 16 th :	from 09.00 to 18.00
Tuesday, 17 th :	from 09.00 to 18.00
Wednesday, 18 th :	from 09.00 to 18.00
Thursday, 19 th :	from 09.00 to 18.00
Friday, 20 th :	from 09.00 to 13.00

Exhibitors Service Desk

The exhibitor service desk will be located in the 1st Floor and will be staffed by Barceló Congressos during all the exhibition hours.

General Safety Advice for Visitors

Granada is a safe city, with almost no violent crime, and tourists and visitors can stroll around and sightsee at ease. However, as in any city, some basic safety precautions should be observed. When walking around typical tourist spots, be especially vigilant of handbags and wallets.

Internet Facilities

Internet facilities are available at the Internet corner located in the exhibition area. Wifi is also available on the main floor. **Password: ICN2013**

Language

The official language of the Congress is English.

Liability and Insurance

The congress secretariat and organizers cannot accept liability for personal accidents or loss of damage to private property of participants or students, either during or indirectly arising from the IUNS 20th International Congress of Nutrition. Participants should make their own arrangements with respect to health and travel insurance.

Lunch

Picnic lunches will be distributed in the venue from Monday to Thursday between 13.30 to 14.30.

Meeting Point

There will be a meeting point in the Ground Floor, next to the registration desk.

Oratory

It is located in the Seminar room 8, 2nd floor.

Post office

There are several Post Offices in Granada, please find here below the address of some of them:

PUERTA REAL, 2
18009 GRANADA
GRANADA
Telf: +34 958221138
Fax: +34 958224891

TORTOLA, 27
18014 GRANADA
GRANADA
Telf: +34 958205502
Fax: +34 958806709

AV. AMERICA, 55
18008 GRANADA
GRANADA
Telf: +34 958133153
Fax: +34 958120003

Public Transport and Car Rental

Granada has a good, comprehensive public transport network, with special ten-trip and one, two or three-day tickets valid on bus, metro and local trains. Taxis are abundant and reasonably priced. Free parking is limited in the city center and car parks are expensive, so car rental is only really recommended for excursions outside the city.

Press Room

It is located in Seminars 1 and 2, on the 1st floor.

Please contact the IUNS 20th ICN Press Agency for scheduling press interviews, press conferences and meeting facilities, photography or multimedia requests.

Contact Details:

Berbés Asociados

Paula Fernandez (+34 678546177) - paulafernandez@berbes.com

Maria Poveda (+34 674305946) - mariapoveda@berbes.com

Shopping

Normal trading hours are Monday to Saturday from 9.00 to 13.30 and 16.30 to 20.00; however, in the city center and shopping malls, many shops stay open all day from 10.00 to 22.00.

Smoking Policy

Smoking is not permitted anywhere within the congress venue.

Scientific Information

Scientific Desk Information on request to the Scientific Secretariat.

Speakers Room

The speakers room (Floor +2) will be open during the registration hours and provide facilities for:

- Reviewing your Power Point presentation
- Making last minute alterations to your Power Point
- Receiving expert advice from technical staff

VAT

There is a variable value added tax (VAT) of 10% to 21% applied to most items and services, but most prices you see will include it. When it is not included, it should be clearly indicated.

Taxis

Taxis in Granada may be ordered by phone, picked up at authorized taxi stands, or flagged down in the street. Always check that the taximeter is running. Taxis must usually be paid in cash though some accept credit cards.

Telephones of interest:

- Airport: +34 958 24 52 00
- Firemen: 080
- Bus Station: +34 958 18 50 10
- Guardia Civil: 062 and +34 958 25 11 00
- Iberia Airlines: +34 958 24 52 38
- Granada Congress Center: Paseo del Violon s/n, tel: +34 958 24 67 00
- National Police: 091
- Local Police: 092
- Renfe (trains): +34 958 27 12 72, www.renfe.es
- Granada University: +34 958 24 30 00
- Cruz Roja/Red Cross: +34 958 22 22 22
- Emergencies: +34 958 28 20 00

Tipping

In restaurants, hotels, taxis, hairdressers and so on, a gratuity is not included in the price.

Although optional, tips are readily accepted and a general guideline is between 5% and 10% of the bill, depending on the quality of the service. Hotel and airport porters will take, depending on the luggage you have, 1€ to 3€.

Granada (Spanish pronunciation: [graˈnaða]) is a city and the capital of the province of Granada, in the autonomous community of Andalusia, Spain. Granada is located at the foot of the Sierra Nevada mountains, at the confluence of three rivers, the Beiro, the Darro and the Genil. It sits at an elevation of 620 metres above sea level, yet is only one hour from the Mediterranean coast, the Costa Tropical. Nearby is the Sierra Nevada Ski Station.

The population of the city of Granada proper is about 240,000 and the population of the entire urban area is estimated to be around 500,000, ranking as the 13th-largest urban area of Spain. About 3.3% of the population did not hold Spanish citizenship, the largest number of these people (31%) coming from South America. Its nearest airport is Federico Garcia Lorca Granada-Jaen Airport.

The Alhambra, a Moorish citadel and palace, is in Granada. It is the most renowned building of the Andalusian Islamic historical legacy with its many cultural attractions that make Granada a popular destination among the touristic cities of Spain. The Almohad influence on architecture is preserved in the area of the city called the Albaicin with its fine examples of Moorish and Morisco construction. Granada is also well-known within Spain for the prestigious University of Granada which has about 63,000 students spread over five different campuses in the city. The pomegranate (in Spanish, granada) is the heraldic device of Granada.

The region surrounding Granada has been populated by Iberians from at least the 8th century B.C. The region has furthermore experienced Phoenician, Greek, Punic, Roman and Visigothic influences. The Iberians called the wide region Ilturir. On the site of present day Granada there seems to have existed a Roman settlement. Some 20 miles south of the modern city, the Iberians built the settlement of Elibyrge in the 5th century BC which later became the Roman city of Illiberis.

In 711, the Moors conquered large parts of the Iberian Peninsula, thus establishing Al-Andalus. Meanwhile, Jewish people had established a small community some twenty miles north of Illiberis, called Garnata or Garnata al-yahūd ("Granada of the Jews"). The word Garnata (or Karnattah) possibly means "Hill of Strangers"

The actual founding of present day Granada took place in the 11th century, during a civil war that ended the Caliphate in the early 11th century. In the aftermath of these wars, the Berber general Ziri ibn Manad established an independent kingdom for himself, with Elvira as its capital. Because the city was situated on a low plain and, as a result, difficult to protect from attacks, the Zirid ruler decided to transfer his residence to the higher situated hamlet of Garnata. In a short time this village was transformed into one of the most important cities of Al-Andalus. By the end of the 11th century, the city had spread across the Darro to reach the hill of the future Alhambra, and included the Albayzin (also Albaicin or El Albaicin) neighborhood (a world heritage site). The Almoravid and Almohad dynasties ruled Granada in this period. The Arabic/Moslem Empire once stretched right up into the north of Spain. The various Christian groups settled their differences, joined together and steadily drove the Arabs out of Spain. Granada was the last stronghold and finally succumbed to Isabel and Ferdinand (the catholic monarchs) in 1492. The Moslems and the Jews were forced to leave the country or convert to Christianity. At the same time Christopher Columbus came to Granada to ask Isabel and Ferdinand for a grant to build ships so that he could conquer the Americas. They gave him the money and we are sure you already know the rest.

Heritage and monuments

The greatest artistic wealth of Granada is its Spanish-Muslim art, in particular, the compound of the Alhambra and the Generalife. The Alhambra is the architectural culmination of the works of Nasrid art that were undertaken in the 13th and 14th centuries. The Generalife is a pleasure palace with attached romantic gardens, remarkable both for its location and layout, as well as for the diversity of its flowers, plants and fountains.

At present, the buildings of Granada are typically bourgeois in appearance, with much of the architecture dating from the 19th Century, together with numerous Renaissance and Baroque buildings.

The Alhambra

Granada has its usual quotient of churches, museums etc. typical for a southern European city. However, Granada has the Alhambra which is considered by some to be one of the 10 wonders of the world. The Alhambra is a Nasrid "palace city". It was declared a World Heritage Site by UNESCO in 1984. It is certainly Granada's most emblematic monument and one of the most visited in Spain. It consists of a defensive zone, the Alcazaba, together with others of a residential and formal state character, the Nasrid Palaces and, lastly, the palace, gardens and orchards of El Generalife. The Alhambra occupies a small plateau on the southeastern border of the city in the foothills of the Sierra Nevada above the Assabica valley. Some of the buildings may have existed before the arrival of the Moors. The Alhambra as a

whole is completely walled, bordered to the north by the valley of the Darro, to the south by the al-Sabika, and to the east of the Cuesta del Rey Chico, which in turn is separated from the Albaicin and Generalife, located in the Cerro del Sol. The complex currently includes the Museum of the Alhambra, with objects mainly from the site of the monument itself and the Museum of Fine Arts.

Cathedral and Royal Chapel

The cathedral of Granada is built over the Nasrid Great Mosque of Granada, in the center of the city. Its construction began during the Spanish Renaissance in the early 16th century, shortly after the conquest of Granada by the Catholic Monarchs. Highlights of the church's components include the Royal Chapel, where may be found the praying statues of the Catholic Monarchs, which consists of a series of Corinthian columns with the entablature resting on their capitals, and the vault over all.

Charterhouse

The "Cartuja de Granada" is a Carthusian monastery, one of the finest examples of Spanish Baroque architecture. The charterhouse was founded in 1506; construction started ten years later, and continued for the following 300 years. While the exterior is a tame ember in comparison, the interior of the monastery's is a flamboyant explosion of ornamentation. Its complex echoing geometric surfaces make of it one of the masterpieces of Churrigueresque style. The most striking features include the tabernacle and the famous sacristy. The charterhouse displays an extensive collection of paintings, prominent among which the works of Fray Juan Sanchez Cotan.

The Albayzin (or Albaicin)

Is a neighborhood of Al-Andalus origin, much visited by tourists who flock to the city because of its historical associations, architecture, and landscape..It is located on the hill opposite the Alhambra and characterized by cobble stoned streets with white washed houses. There are many squares with terrazas and places to laze about and have a bite to eat. The Albaicin is an oil painter's paradise and almost at every turn of the head there is an attractive view, almost always involving glimpses of the Alhambra. In 1994 it was declared a Unesco World Heritage Site. Of its architectural wealth among others include the Ziri walls of the Alcazaba Cadima, the Nasrid walls, the towers of the Alcazaba, the churches of El Salvador (former main mosque), San Cristobal, San Miguel Alto and the Real Chancilleria.

Sacromonte, Flamenco and the Gypsies

The Sacromonte neighborhood is located on one of several hills that make up Granada. This neighborhood is known as the old neighborhood of the gypsies, who settled in Granada after the conquest of the city. It is one of the most picturesque neighborhoods, full of whitewashed caves cut into the rock and used as residences. The sound of strumming guitars may still be heard there in the performance of flamenco cantes and "quejios", so that over time it has become one of the most popular tourist attractions in Granada.

At the top of this hill is the Abbey of Sacromonte and the College of Sacromonte, founded in the 17th century by the then Archbishop of Granada Pedro de Castro. The Abbey of Sacromonte was built to monitor and guard the relics of the evangelists of Baetica. Since the first findings the area has been a religious pilgrimage destinationthe

Gastronomy

Spanish cuisine is well known all around the world, Granada and its tapas could not be less.

The province of Granada, located between mountains and sea, explains its rich and varied kitchen. The most known dishes are the Tortilla de Sacromonte, Habas Fritas con Jamon and Pollo al Ajillo. However, you cannot visit Granada without testing its Trevelez ham, its asparagus, its tropical fruit, its olive oil and its wine.

The IUNS 20th ICN features a 'Track' design of audience segmentation by grouping the related sub-themes and ensuring the inclusion of sessions from scientific knowledge to applications.

TRACKS

1: Advances in Nutrition Research

- 1.1 Nutrigenetics, Nutrigenomics and Personalized Nutrition
- 1.2 Epigenetics and Early Programming
- 1.3 New Advances in Experimental Nutrition
- 1.4 Biomarkers in Nutrition
- 1.5 New Experimental Approaches in Clinical Nutrition

2: Nutrition Through Life Course

- 2.1 Nutrition in Pregnancy and Lactation
- 2.2 Nutrition in Infancy and Childhood
- 2.3 Nutrition and Adolescence
- 2.4 Nutrition in the Elderly
- 2.5 Exercise and Nutrition

3: Public Health Nutrition and Environment

- 3.1 Epidemiology
- 3.2 Healthy Lifestyles Promotion
- 3.3 Physical Activity
- 3.4 Nutrition Policies
- 3.5 Guidelines
- 3.6 Environmental Sustainability

4: Nutrition and Management of Diseases

- 4.1 Obesity, Diabetes and Related Disorders
- 4.2 Cardiovascular Diseases
- 4.3 Cancer
- 4.4 Malnutrition
- 4.5 Other Inflammatory and Immune Diseases

5: Nutrients and Nutritional Assessment

- 5.1 Body Composition
- 5.2 Growth and Development
- 5.3 Macronutrients
- 5.4 Micronutrients
- 5.5 International Data Base Food Composition
- 5.6 Nutritional Assessment Methods

6: Functional Foods and Bioactive Compounds

- 6.1 Prebiotics, Probiotics and Synbiotics
- 6.2 Bioactive Food Components and Ingredients

7: Food culture practices and Nutritional Education

- 7.1 Joining Cultures through the Mediterranean Diet
- 7.2 Nutrition Transition Challenges in Latin America
- 7.3 Nutrition, Health and Wellness in Asia and Oceania
- 7.4 Improving Indigenous and Cultural Foods
- 7.5 Changing Dietary Patterns in Northern and Western Countries

8: Agriculture, Food Science and Safety

- 8.1 Agrobiodiversity and Ecnutrition
- 8.2 Food Composition and Labelling
- 8.3 Food Safety, Nutrition and Wellness
- 8.4 Nutrition and Environmental Sustainability
- 8.5 Nutritional Claims



TIME/DAY	Sunday, September 15th			Monday, September 16th	Tuesday, September 17th	Wednesday, September 18th	Thursday, September 19th	Friday, September 20th	
08:00 - 10:00	Registration	Satellite Symposia	Fori	Parallel Symposia	Parallel Symposia	Parallel Symposia	Parallel Symposia	Parallel Symposia	
10:00 - 10:30				Coffee Break					
10:30 - 11:30				Plenary Lecture	Plenary Lecture	Plenary Lecture	Plenary Lecture	Parallel Symposia	
11:30 - 13:30				Parallel Symposia	Parallel Symposia	Parallel Symposia	Parallel Symposia		Closing Lecture & Closing Ceremony
13:30 - 14:30				Lunch Break					
14:30 - 16:00				Oral Communications	Oral Communications	IUNS Living Legends, Nevin Scrimshaw Tribute and Debates	Oral Communications		
16:00 - 16:30				Special Lectures	Special Lectures	Special Lectures	Special Lectures	Satellite Symposia	
16:30 - 17:00				Coffee Break					
17:00 - 19:00				Sponsored Symposia	Sponsored Symposia	Sponsored Symposia	Sponsored Symposia		
19:00 - 21:00	Opening Ceremony & Opening Lecture			1 st Part IUNS Assembly		2 nd Part IUNS Assembly			

Saturday, September 14th

Room	Aula Magna, School of Pharmacy, University of Granada
09:00 - 14:30	Satellite Symposium of the Iberoamerican Association of Faculties and Schools of Nutrition (AIFEN)

Sunday, September 15th

Room	Andalucia Room	Machado and Picasso Rooms	Lorca Auditorium	Falla Auditorium	Room B
Location	Floor 1	Floor -2	Floor 0	Floor 1	Floor -3
09:00 - 09:30	Union Internationale de la Boulangerie et de la Boulangerie-Pâtisserie (UIB) meeting	Satellite Symposium Testing innovations to improve infant and young child feeding practices in low-income populations (Thrive & Alive)	ESPEN Forum Clinical malnutrition		Satellite Symposium Public health nutrition - healthy lifestyle Promotion (ANFABRA)
09:30 - 10:00					
10:00 - 10:30					
10:30 - 11:00					
11:00 - 11:30					
11:30 - 12:00					
12:00 - 12:30					
12:30 - 13:00					
13:00 - 13:30					
13:30 - 14:00		Satellite Symposium Sustainable food and diets: From theory to evidence - Based successful practice (Daniel & Nina Carasso Foundation)			
14:00 - 14:30					
14:30 - 15:00	Union Internationale de la Boulangerie et de la Boulangerie-Pâtisserie (UIB) meeting		ESPGHAN Forum Do toddlers have special nutritional needs?	Satellite Symposium Research on agriculture, health and nutrition (Nutrition Innovation Lab)	Satellite Symposium MIYCN: Current headlines in maternal, infant and young child nutrition (SPRING Project)
15:00 - 15:30					
15:30 - 16:00					
16:00 - 16:30	Satellite Symposium Bread and health (UIB)				
16:30 - 17:00					
17:00 - 17:30					
17:30 - 18:00					
18:00 - 18:30					

13:30 - 14:30	* Commented tasting of fish products. Terrace 1 st Floor
09:00 - 14:30	Workshop on Mediterranean diet and sensory for nutrition professionals - Sciences Park of Granada

Room	Room C	Machuca Room	Albéniz Room	Room D	Seminar 6 & 7
Location	Floor -3	Floor -2	Floor -2	Floor -3	Floor 1
09:00 - 09:30		Forum Nutrition and early life origins of allergic disease	Satellite Symposium Food Aid Quality Review (FAQR) Symposium: What does it work in prevention and treatment of moderate acute malnutrition: A systematic review of meta-analyses	Forum The double burden of undernutrition and obesity in Latin America: Where do we stand and where do we go?	Workshop Normative indicators of child health and nutrition One size fits all?
09:30 - 10:00					
10:00 - 10:30					
10:30 - 11:00					
11:00 - 11:30					
11:30 - 12:00					
12:00 - 12:30					
12:30 - 13:00					
13:00 - 13:30					
13:30 - 14:00					
14:00 - 14:30	Satellite Symposium Achieving successful prevention and control of Iodine Deficiency Disorders (IDD) (ICCIDD)	Satellite Symposium Scaling up Nutrition What will it cost at country level? Developing costed scale-up plans in countries (World Bank)		Workshop Update on the management of severe malnutrition (IMTF)	
14:30 - 15:00					
15:00 - 15:30					
15:30 - 16:00					
16:00 - 16:30					
16:30 - 17:00					
17:00 - 17:30					
17:30 - 18:00					

Room	Lorca Auditorium
Location	Floor 0
19:00 - 19:30	Opening Ceremony
19:30 - 20:15	Opening Lecture The New Sustainable Development Goals and Nutrition <i>Maria Neira, Director Public Health and Environment, World Health Organization (WHO)</i>
20:15 - 21:00	Concert by The University of Granada Orchestra (OUGR)
21:00 - 21:30	Welcome Party
21:30 - 22:00	
22:00 - 22:30	

Monday, September 16th

Room	Andalucia Rooms	Machado and Picasso Rooms	Falla Auditorium	Lorca Auditorium	Room B
Location	Floor 1	Floor -2	Floor 1	Floor 0	Floor -3
TRACK / TIME	ADVANCES IN NUTRITION RESEARCH	NUTRITION THROUGH LIFE COURSE	PUBLIC HEALTH NUTRITION	NUTRITION AND MANAGEMENT OF DISEASES	NUTRITIONAL ASSESMENT
08:00 - 10:00	NPS1-1 Early life nutrition intervention: Effects on long term health and function	NPS1-2 Efficacy of Lipid-based nutrient supplements of prevention of maternal and infant undernutrition in Africa: Results of the iLiNS Project	NPS1-3 Nutrition and enviromental sustainability (FAO)	NPS1-4 Dietary lipids and the risk of common diseases	NPS1-5 Methods and outcomes of nutritional assessment and health monitoring
10:00 - 10:30	Coffee Break				
10:30 - 11:30	Plenary Lecture: The resolution of inflammation. Is there anything nutrients can do for it? <i>Charles N. Serhan</i>				
11:30 - 13:30	PS1-1 Developments in personalized nutrition (Food4Me Project)	PS1-2 Nutrition and lifestyle in adolescents: The HELENA study	PS1-3 Global nutrition strategies (WHO)	PS1-4* Scaling up prevention and treatment of malnutrition	PS1-5 The SMILING project
13:30 - 14:30	Lunch Break				
14:30 - 16:00	Oral Communications O001 - O008	Oral Communications O009 - O016	Oral Communications O017 - O024	Oral Communications O025 - O033	Oral Communications O034 - O041
16:00 - 16:30	Special Lecture Chronobiology and obesity: The number 25, the initial point <i>Fred W. Turek</i>	Special Lecture Omega-3 fatty acid sources for human health: what are the choices, what about sustainability? <i>Norman Salem</i>	Special Lecture The role policy and regulation in improving diets <i>Boyd Swinburn</i>	Special Lecture Differential diagnosis and management in childhood obesities <i>Jesus Argente</i>	Special Lecture Sweetness, satiation and satiety <i>France Bellisle</i>
16:30 - 17:00	Coffee Break				
17:00 - 19:00	SPS1-1 How breast milk feeding knowledge can lead to better infant nutrition (HERO)	SPS1-2 The role of beverages in childhood nutrition (NESTLÉ NUTRITION INSTITUTE)	SPS1-3 Hydration and health (EUROPEAN HYDRATION INSTITUTE)	SPS1-4 Future of Nutrition in the 21 st Century (ABBOTT INSTITUTE OF NUTRITION)	SPS1-5 Food choices throughout the day to combat global obesity: Review of the evidence and future opportunities (GENERAL MILLS)
19:00 - 21:00	1st Part IUNS Assembly				

Room	Room C	Machuca and Albeniz Rooms	Room D	Seminar 3, 4, 5
Location	Floor -3	Floor -2	Floor -3	Floor 1
TRACK / TIME	FUNCTIONAL FOOD AND BIOACTIVE COMPOUNDS	FOOD CULTURE AND PRACTICES	FOOD SCIENCE AND AGRICULTURE	
08:00 - 10:00	NPS1-6 Diversity of physiological functions of amino acids and peptides	NPS1-7 The role of nutraceuticals in health along with basic nutrition	NPS1-8 IMAPP (Intake, Monitoring and Program Planning): Software nutrient intake data	
10:00 - 10:30	Coffee Break			
11:30 - 13:30	PS1-6 The PREVIEW project	PS1-7 Cultural differences in diet and nutrition accross Europe. Impact in health	PS1-8 Food based approaches to improve multiple micro-nutrient deficiencies and protein quality	
13:30 - 14:30	Lunch Break			
14:30 - 16:00	Oral Communications O042 - O049	Oral Communications O050 - O057	Oral Communications O058 - 065	*Post- Discussion PS1-4 Scaling up prevention and treatment of malnutrition
16:00 - 16:30	Special Lecture Modulation of the gut microbiota by nutrients with prebiotic and probiotic properties <i>Nathalie Delzenne</i>	Special Lecture Maternal nutrition and birth outcomes <i>Zulfiqar Bhutta</i>	Special Lecture Assessing and improving the quality of food composition databases for nutrition and health applications <i>Paul Finglas</i>	
16:30 - 17:00	Coffee Break			
17:00 - 19:00	SPS1-6 Clinical immunonutrition (VEGENAT)	SPS1-7 Yogurt in nutrition: Initiative for a balanced diet (INTERNATIONAL INSTITUTE DANONE)	SPS1-8 Protein requirements for optimal health throughout all life stages (INTERNATIONAL MEAT SECRETARIAT)	SPS1-8B Plant-based eating and cardiovascular health benefits (ALPRO)

Tuesday, September 17th

Room	Andalucia Rooms	Machado and Picasso Rooms	Falla Auditorium	Lorca Auditorium	Room B
Location	Floor 1	Floor -2	Floor 1	Floor 0	Floor -3
TRACK / TIME	ADVANCES IN NUTRITION RESEARCH	NUTRITION THROUGH LIFE COURSE	PUBLIC HEALTH NUTRITION	NUTRITION AND MANAGEMENT OF DISEASES	NUTRITIONAL ASSESMENT
08:00 - 10:00	PS2-9 Biomarkers of nutrition for development: An overview (BOND)	PS2-10 Energy balance and active living (ILSI USA and EUROPE)	PS2-11 Global challenges in maternal and child nutrition for today and the future	PS2-12 Food, nutrition, physical activity and cancer - Keeping the evidence current: WCRF/AICR Continous Update Project	PS2-13 Harmonization of human zinc requirements and country experiences in assessing population zinc status
10:00 - 10:30	Coffee Break				
10:30 - 11:30			Plenary Lecture: Micronutrient Research, Programs and Policy: From Meta-analyses to Metabolomics <i>Lindsay Allen (E.V. McCollum lecture)</i>		
11:30 - 13:30	PS2-17 Immunonutrition in health and disease (i-FINER group)	PS2-18 Halthy life style promotion	PS2-19 Confronting the global epidemic of non-communicable diseases: Findings from the NHLBI/ UHG Global Network	PS2-20 Tackling obesity in pre-school children: First results from the ToyBox Study	PS2-21 Assessment of body composition from birth to 2 years
13:30 - 14:30	Lunch Break				
14:30 - 16:00	Oral Communications O066 - O073	Oral Communications O074 - O081	Oral Communications O082 - O089	Oral Communications O090 - O097	Oral Communications O098 - O0105
16:00 - 16:30	Special Lecture Integrated nutrition: From molecules to populations <i>Mike Gibney</i>	Special Lecture Genetic engineering/ biotechnology and its relevance to pediatric <i>Ronald E. Kleinman</i>	Special Lecture Energy balance and obesity <i>James O. Hill</i>	Special Lecture Nutritional rickets around the world <i>Gail Goldberg</i>	Special Lecture Developing suitable methods of nutritional status assessment, a continuous challenge <i>Ibrahim Elmadfa</i>
16:30 - 17:00	Coffee Break				
17:00 - 19:00	SPS2-9 Satiety: From integrative approach to food application (MONDELEZ INTERNATIONAL)	SPS2-10A Nutrition starts at the breakfast table (PURATOS) SPS2-10B How to get your paper published (NATURE PUBLISHING GROUP)	SPS2-11 Behaviour change for better health (UNILEVER)	SPS2-12 Omega-3 fatty acids: Science and health (PULEVA)	SPS2-13 Personalized nutrition based on genetic tools (CINFAN)
19:00 - 21:00		SEN Assembly			

Room	Room C	Machuca and Albeniz Rooms	Room D	Seminar 3, 4, 5
Location	Floor -3	Floor -2	Floor -3	Floor 1
TRACK / TIME	FUNCTIONAL FOOD AND BIOACTIVE COMPOUNDS	FOOD CULTURE AND PRACTICES	FOOD SCIENCE AND AGRICULTURE	
08:00 - 10:00	PS2-14 Dietary reference values for DNA damage prevention	PS2-15 Linking food security and nutrition education to improve infant and young child feeding (FAO)	PS2-16 Food composition (FAO)	Forum Current situation, challenges and perspectives of clinical nutrition in Latin America
10:00 - 10:30	Coffee Break			
11:30 - 13:30	PS2-22 The role of nutrition in healthy ageing: insight from the CHANCES Project	PS2-23A China's nutrition transition PS2-23B A global partnership to improve nutrition medicine in Vietnam	PS2-24 Sugars and health - the controversies continue (EUFIC)	
13:30 - 14:30	Lunch Break			
14:30 - 16:00	Oral Communications O106 - O113	Oral Communications O114 - O121	Oral Communications O122 - O129	
16:00 - 16:30	Special Lecture Iron nutrition of infants - what is too little and what is too much? <i>Bö Lönnerdal</i>	Special Lecture What would it take to ensure optimal growth among children in Africa <i>Anna Lartey</i>	Special Lecture Sustainable diets: How nutrition can save the planet <i>Barbara Burlingame</i>	
16:30 - 17:00	Coffee Break			
17:00 - 19:00	SPS2-14 Diet Modelling: How it can inform the development of dietary recommendations and public health policy (DANONE RESEARCH)	SPS2-15 Micronutrient intake and status: A global view and implications on public health (DSM)	SPS2-16 Launch of the new Micronutrient Forum - Bridging scientific advances and programs to improve health (MICRONUTRIENT FORUM)	SPS2-16B Beer and mediterranean diet (CERVEZA Y SALUD)

Wednesday, September 18th

Room	Andalucia Rooms	Machado and Picasso Rooms	Falla Auditorium	Lorca Auditorium	Room B
Location	Floor 1	Floor -2	Floor 1	Floor 0	Floor -3
TRACK / TIME	ADVANCES IN NUTRITION RESEARCH	NUTRITION THROUGH LIFE COURSE	PUBLIC HEALTH NUTRITION	NUTRITION AND MANAGEMENT OF DISEASES	NUTRITIONAL ASSESMENT
08:00 - 10:00	PS3-25 New biomarkers for health claims made on food	PS3-26 Scaling up nutrition to improve infant and young child feeding (IYCF)	PS3-27 Community based programme to prevent obesity: Lessons and perspectives from 20 years of experience (EPODE International Network)	PS2-28 The Diogenes intervention study	PS3-29 Vitamin A supplementation for children 6-59 months of age: Revisiting program strategies and priorities
10:00 - 10:30	Coffee Break				
10:30 - 11:30			Plenary Lecture: New powers of brown fat: Fighting the metabolic syndrome <i>Jan Nedergaard</i>		
11:30 - 13:30	PS3-33 OMICS technologies with nutritional perspectives	PS3-34A Nutrients and exercise performance - What is the evidence behind recent claims of major benefits? PS3-34B The Spring Project	PS3-35 Promoting healthy growth and preventing childhood stunting (WHO)	PS3-36 ISCOLE: International Study of Childhood Obesity, Lifestyle and the Enviroment	PS3-37 Findings from 5 birth cohorts from developing countries: The COHORTS collaboration
13:30 - 14:30	Lunch Break				
14:30 - 16:00	Debate Personalized nutrition vs Public health nutrition	Debate The best dietary approach to achieve weight loss and weight maintenance	Panel discussion Dietary sugars: Controversies on relevant scientific findings and health implications	IUNS Living Legends and IUNS Nevin Scrimshaw Tribute	
16:00 - 16:30	Special Lecture Early nutrition and non-communicable diseases in countries of the Middle East <i>Nahla Houalla</i>	Special Lecture Towards body composition reference data for children and adolescents <i>Jonathan C. Wells</i>			Special Lecture Regulation of protein synthesis in skeletal muscle by leucine during the neonatal period <i>Teresa Davis</i>
16:30 - 17:00	Coffee Break				
17:00 - 19:00	SPS3-17 Micronutrients for optimum health (BAYER)	SPS3-18 Physical activity: Can it help prevent cognitive impairment and Alzheimer's disease? (THE COCA-COLA CO)	SPS3-19 Public private partnership in nutrition (NESTLÉ)	SPS3-20 Nutrition and health benefits of emerging fibers (TATE & LYLE)	SPS3-21 Guidelines for adequate water intake: Public health rationale (EFBW)
19:00 - 21:00	2nd Part IUNS Assembly				

Room	Room C	Machuca and Albeniz Rooms	Room D	Seminar 3, 4, 5
Location	Floor -3	Floor -2	Floor -3	Floor 1
TRACK / TIME	FUNCTIONAL FOOD AND BIOACTIVE COMPOUNDS	FOOD CULTURE AND PRACTICES	FOOD SCIENCE AND AGRICULTURE	
08:00 - 10:00	PS3-30 Fibres and the gut immune system (FIBEBIOTICS Project)	PS3-31A Building research capacity in Latin America to address NCDs and obesity PS3-31B Traditional, indigenous and cultural food and nutrition	PS3-32 Low-calorie sweeteners: Are they safe and can they help with weight management?	
10:00 - 10:30	Coffee Break			
11:30 - 13:30	PS2-22 HEALTHGRAIN forum symposium	PS3-39A ENLP - Nutrition during time of economic crisis PS3-39B Capacity development in innovative techniques in food and nutrition research	PS3-40 FESNAD forum: Nutrition claims	
13:30 - 14:30	Lunch Break			
14:30 - 16:00		Debate Timing to introducing complementary foods into the infant diet		
16:00 - 16:30	Special Lecture Why Alpha-Linolenic Acid (ALA) is essential: New research on plant based sources <i>Penny Kris-Etherton</i>	Special Lecture Bioactive foods and ingredients for health <i>Connie Weaver</i>	Special Lecture Agrinutrition: Where are we going? <i>Alan Dangour</i>	
16:30 - 17:00	Coffee Break			
17:00 - 19:00	SPS3-22 Palmitic acid and health	SPS3-23A Sarcopenic obesity: Measurement, risks and interventions (TANITA) SPS3-23B Beneficial roles of non-classical probiotic bacteria (BIOPOLIS)	SPS3-24 Weight management and the role of carbohydrates (BENEJO)	SPS3-24B Biomarkers in growth (SIGHT AND LIFE)

Thursday, September 19th

Room	Andalucia Rooms	Machado and Picasso Rooms	Falla Auditorium	Lorca Auditorium	Room B
Location	Floor 1	Floor -2	Floor 1	Floor 0	Floor -3
TRACK / TIME	ADVANCES IN NUTRITION RESEARCH	NUTRITION THROUGH LIFE COURSE	PUBLIC HEALTH NUTRITION	NUTRITION AND MANAGEMENT OF DISEASES	NUTRITIONAL ASSESMENT
08:00 - 10:00	PS4-41 Public health genomics in individualized nutrition	PS4-42A Complementary feeding and infant health (FAO Project) PS4-42B Generating evidence of impact for integrated programs aimed to improve child nutrition during the first 1000 days (IFPRI)	PS4-43 Nutrition profiling (WHO)	PS4-44 Nutrition in inflammatory bowel diseases. From basic to clinical application	PS4-45 Iron and malaria (FeMal) project results
10:00 - 10:30	Coffee Break				
10:30 - 11:30	Plenary Lecture: IUNS Award				
11:30 - 13:30	PS4-49 Biomarkers of response to dietary interventions	PS4-50 Early diet is critical for later development - New research into changing early eating habits (HABEAT and VIVA)	PS4-51 Nutrition, physical activity and the prevalence of NCDs in the Middle East and North Africa	PS4-52 International Life Science Institute (ILSI) - Session on food allergy	PS4-53 Strengthening micronutrient nutrition surveillance: WHO and CDC tools and methods
13:30 - 14:30	Lunch Break				
14:30 - 16:00	Oral Communications O130 - O137	Oral Communications O138 - O145	Oral Communications O146 - O153	Oral Communications O154 - O161	Oral Communications O162 - O169
16:00 - 16:30	Special Lecture Brite vs. Brown and white adipose tissues: functional and molecular differences <i>Barbara Cannon</i>	Special Lecture The importance of dietary protein to maintain musculoskeletal mass and quality during aging <i>Daniel Moore</i>	Special Lecture Obesity of the rich, obesity of the poor: Two epidemics? <i>Benjamin Caballero</i>	Special Lecture Diet and non-communicable diseases: Lessons from the EPIC study <i>Heiner Boeing</i>	Special Lecture Iron food fortification and anemia prevention <i>Mari Nieves Garcia Casal</i>
16:30 - 17:00	Coffee Break				
17:00 - 19:00	SPS4-25 Umami taste compounds to control appetite and reduce sodium intake: A new nutritional approach (AJINOMOTO)	SPS4-26A Current situation of cholesterol reduction for the prevention of cardiovascular diseases (Central Lechera Asturiana) SPS4-26B Monounsaturated fatty acids and Health (DEOLEO)	SPS4-27 Maintaining health with nutrient rich diets: The role of dairy in prevention of metabolic syndrome, CVD, obesity and sarcopenia	SPS4-28 Active healthy living and prevention of chronic diseases (THE COCA COLA Co)	SPS4-29 Functional ingredients and development of diets for elderly population (SENI FOOD)

Room	Room C	Machuca and Albeniz Rooms	Room D	Seminar 3, 4, 5
Location	Floor -3	Floor -2	Floor -3	Floor 1
TRACK / TIME	FUNCTIONAL FOOD AND BIOACTIVE COMPOUNDS	FOOD CULTURE AND PRACTICES	FOOD SCIENCE AND AGRICULTURE	
08:00 - 10:00	PS4-46 Functional roles of human milk and other selected oligosaccharides	PS4-47 Mediterranean diet and disease	PS4-48 Bellagio report on healthy agriculture, healthy nutrition, healthy people	PS4-48B European School Food Network
10:00 - 10:30	Coffee Break			
11:30 - 13:30	PS4-54 Functional roles of prebiotic insulin-type fructans	PS4-55 The PREDIMED study	PS4-56 Food and nutrition reporting in media (EUFIC)	PS4-56B Mitigating affordability constraints to accessing nutrient requirements
13:30 - 14:30	Lunch Break			
14:30 - 16:00	Oral Communications O170 - O177	Oral Communications O178 - O185	Oral Communications O186 - O192	
16:00 - 16:30	Special Lecture Cardiovascular effects of dietary flavonoids - Is there a potential benefit in diabetes? <i>Ian Macdonald</i>	Special Lecture Innovation and quick-wins in nutrition policies in WHO European Region <i>Joao Breda</i>	Special Lecture Identifying and characterizing the effects of nutrition on learning and memory <i>Neal Cohen</i>	
16:30 - 17:00	Coffee Break			
17:00 - 19:00	SPS4-30 Partnerships to drive impact at scale: Improving accessibility and affordability to nutritious foods for mothers and children (GLOBAL ALLIANCE FOR IMPROVED NUTRITION)	SPS4-31A Nuts in health and disease (INC INTERNATIONAL NUT & DRIED FRUIT COUNCIL) SPS4-31B Front of pack-labeling: Promises and actions (CHOICES INTERNATIONAL)	SPS4-32 Biofortification: From discovery to impact (HARVESTPLUS)	SPS4-32B International Expert Movement (IEMS)

Friday, September 20th

Room	Andalucia Rooms	Machado and Picasso Rooms	Falla Auditorium	Lorca Auditorium	Room B
Location	Floor 1	Floor -2	Floor 1	Floor 0	Floor -3
TRACK / TIME	ADVANCES IN NUTRITION RESEARCH	NUTRITION THROUGH LIFE COURSE	PUBLIC HEALTH NUTRITION	NUTRITION AND MANAGEMENT OF DISEASES	NUTRITIONAL ASSESMENT
08:00 - 10:00	PS5-57 Early programming and nutrition in Latin America	PS5-58 The NU-AGE project: New dietary strategies about healthy nutrition for the elderly	PS5-59 Food insecurity and obesity across the life cycle	PS5-60 Maternal nutritional supplementation of HIV-infected women during lactation: Implications for maternal and infant health in resource-poor settings	PS5-61 Micronutrient Fortification. Science and strategies for public health improvement in Asia
10:00 - 10:30	Coffee Break				
10:30 - 12:00	PS5-65 Metabolic and nutritional aspects of genetic diseases	PS5-66 Trace elements and chronic diseases	PS5-67 Type diabetes in Asia's rapid growth is due to genetic or dietary change?	PS5-68 New insights in obesity, metabolic syndrome and diabetes	PS5-69 Evaluation of food fortification and biofortification interventions in developing countries using stable isotopes
16:00 - 19:00		Satellite Symposium Scientific update on sugars and health			

Room	Room C	Machuca and Albeniz Rooms	Room D	Seminar 3, 4, 5
Location	Floor -3	Floor -2	Floor -3	Floor 1
TRACK / TIME	FUNCTIONAL FOOD AND BIOACTIVE COMPOUNDS	FOOD CULTURE AND PRACTICES	FOOD SCIENCE AND AGRICULTURE	
08:00 - 10:00	PS5-62 Functional properties of proteins of biological and food origin	PS5-63A Regulation versus innovation (IUFOST) PS5-63B Food systems for nutrition and health: Growing, shopping, cooking and eating	PS5-64 Improving food at work: an international approach and some national experiences	
10:00 - 10:30	Coffee Break			
10:30 - 12:00	PS5-70 Phytochemicals responsible for the food function, from the chemistry to physiological relevance and human health	PS5-71A The value of nutrition labelling: Has nutrition labelling reduced any chronic diseases? (IUFOST) PS5-71B Urbanization, climate change and nutrition insecurity	PS5-72 The shift toward a modern industrialized food system, potential implications for nutrition-related chronic diseases and for public policies	

Room	Lorca Auditorium
Location	Floor 0
12:00 - 12:15	Closing Ceremony: Towards a milestone in European nutrition and physical activity policies - Vienna declaration on nutrition and NCD <i>Joao Breda</i>
12:15 - 12:45	Closing Lecture: Health and well being in the changing urban environment <i>Dov Jaron</i>
12:45 - 13:00	Presentation of IUNS 21st ICN
13:00 - 13:45	Closing Remarks and Performance

September 16th

- 08.00 – 10.00 **Parallel Symposium**
NPS1-1 Early life nutrition intervention: Effects on long term health and function (Early Nutrition Project)
- 11.30 – 13.30 **Parallel Symposium**
PS1-1 Developments in personalised nutrition: What's next? (Food4Me Project)
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
Chronobiology and obesity: The number 25, the initial point

September 17th

- 08.00 – 10.00 **Parallel Symposium**
PS2-9 Biomarkers of nutrition for development: An overview (BOND)
- 11.30 – 13.30 **Parallel Symposium**
PS2-17 Immunonutrition in health and disease (i-FINER group)
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
Challenges for molecular nutrition research

September 18th

- 08.00 – 10.00 **Parallel Symposium**
PS3-25 New biomarkers for health claims made on food (BIOCLAIMS)
- 11.30 – 13.30 **Parallel Symposium**
PS3-33 IUNS Task Force - OMICS technologies with nutritional perspectives
- 14.30 – 16.30 **Debate**
Personalized nutrition vs Public health nutrition
- 16.00 – 16.30 **Special Lecture**
Early Nutrition and non-communicable diseases in countries of the Middle-East

September 19th

- 08.00 – 10.00 **Parallel Symposium**
PS4-41 Public health genomics in individualized nutrition
- 11.30 – 13.30 **Parallel Symposium**
PS4-49 Biomarkers of response to dietary interventions
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
Brite versus brown and white adipose tissues: functional and molecular differences

September 20th

- 08.00 – 10.00 **Parallel Symposium**
PS5-57 Early programming and nutrition in Latin America
- 10.30 – 12.00 **Parallel Symposium**
PS5-65 Metabolic and nutritional aspects of genetic diseases

1

Advances in Nutrition Research

September 16th

- 08.00 – 10.00 **Parallel Symposium**
NPS1-2 Efficacy of lipid-based nutrient supplements for prevention of maternal and infant undernutrition in Africa: Results of the iLiNS Project
- 11.30 – 13.30 **Parallel Symposium**
PS1-2 Nutrition and lifestyle in adolescents: The HELENA study
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
Omega-3 fatty acid sources for human health: What are the choices, what about sustainability?

September 17th

- 08.00 – 10.00 **Parallel Symposium**
PS2-10 Energy balance and active living
- 11.30 – 13.30 **Parallel Symposium**
PS2-18 Healthy life style promotion
- 14.30-16.00 **Oral Communications**
- 16.00 - 16.30 **Special Lecture**
Genetic engineering/biotechnology and it's relevance to pediatric nutrition

2

Nutrition Through Life Course

September 18th

- 08.00 – 10.00 **Parallel Symposium**
PS3-26 Scaling up nutrition to improve infant and young child feeding (IYCF) - (Alive & Thrive)
- 11:30-13:30 **Parallel Symposium**
PS3-34A Nutrients and exercise performance - What is the evidence behind recent claims of major benefits?
- 11.30 – 13.30 **Parallel Symposium**
PS3-34B Past and current experiences in leveraging multiple program and partner platforms to scale-up nutrition interventions (The SPRING project)
- 14.30 – 16.00 **Debate**
The best dietary approach to achieve weight loss and weight maintenance
- 16.00-16.30 **Special Lecture**
Towards body composition reference data for children and adolescents

September 19th

- 08.00 – 10.00 **Parallel Symposium**
PS4-42A Complementary feeding and infant health (FAO Project)
- 08.00 – 10.00 **Parallel Symposium**
PS4-42B Generating evidence of impact for integrated programs aimed to improve child nutrition during the first 1000 days (IFPRI)
- 11.30 – 13.30 **Parallel Symposium**
PS4-50 Early diet is critical for later development - New research into changing early eating habits (HABEAT and VIVA)
- 14.30 - 16.00 **Oral Communications**
- 16.00 - 16.30 **Special Lecture**
The importance of dietary protein to maintain musculoskeletal mass and quality during aging

September 20th

- 08.00 – 10.00 **Parallel Symposium**
PS5-58 The NU-AGE project: New dietary strategies about healthy nutrition for the elderly
- 10:30-12:00 **Parallel Symposium**
PS5-66 Trace elements and chronic diseases

September 16th

- 08.00 – 10.00 **Parallel Symposium**
NPS1-3 Nutrition and environmental sustainability (FAO)
- 11.30 – 13.30 **Parallel Symposium**
PS1-3 Global nutrition strategies (WHO)
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
The role of policy and regulation in improving diets

September 17th

- 08.00 – 10.00 **Parallel Symposium**
PS2-11 Global challenges in maternal and child nutrition for today and the future
- 11.30 – 13.30 **Parallel Symposium**
PS2-19 Confronting the global epidemic of non-communicable diseases: findings from the NHLBI/UHG Global Network
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
Energy balance and obesity

September 18th

- 08.00 – 10.00 **Parallel Symposium**
PS3-27 Community-based programme to prevent obesity: Lessons and perspectives from 20 years of experience (EPODE International Network)
- 11.30 – 13.30 **Parallel Symposium**
PS3-35 Promoting healthy growth and preventing childhood stunting (WHO)
- 14.30 – 16.30 **Panel discussion**
Dietary sugars: Controversies on relevant scientific findings and health implications

September 19th

- 08.00 – 10.00 **Parallel Symposium**
PS4-43 Nutrition profiling (WHO)
- 11.30 – 13.30 **Parallel Symposium**
PS4-51 Nutrition, physical activity and the prevalence of NCDs in the Middle East and North-Africa
- 14.30 – 16.00 **Oral Communications**
- 16.00 – 16.30 **Special Lecture**
Obesity of the rich, obesity of the poor: Two epidemics?

September 20th

- 8:00-10:00 **Parallel Symposium**
PS5-59 Food insecurity and obesity across the life cycle
- 10.30 – 12.00 **Parallel Symposium**
PS5-67 Type 2 diabetes in Asia's rapid growth is due to genetic or dietary change?

3

Public Health Nutrition and Environment

September 16th

- 08.00 – 10.00 **Parallel Symposium**
NPS1-4 Dietary lipids and the risk of common diseases
- 11.30 – 13.30 **Parallel Symposium**
PS1-4 IUNS Task Force
Scaling up prevention and treatment of malnutrition*
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
Differential diagnosis and management in childhood obesities

September 17th

- 08.00 – 10.00 **Parallel Symposium**
PS2-12 Food, nutrition, physical activity and cancer – Keeping the evidence current: WCRF/AICR Continuous Update Project (CUP) - (WCRF)
- 10.30 – 11.30 **Plenary Lecture**
Micronutrient research, programs and policy: From Meta-analyses to Metabolomics
- 11.30 – 13.30 **Parallel Symposium**
PS2-20 Tackling obesity in pre-school children: First results from the ToyBox Study
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
Nutritional rickets around the world

September 18th

- 08.00 – 10.00 **Parallel Symposium**
PS3-28 Role of dietary macronutrients on weight management. Role of protein and glycemic index in body weight regulation – Lessons from the Diogenes intervention study
- 10.30 – 11.30 **Plenary Lecture**
New powers of brown fat: Fighting the metabolic syndrome
- 11.30 – 13.30 **Parallel Symposium**
PS3-36 ISCOLE: International Study of Childhood Obesity, Lifestyle and the Environment
- 14.30 – 16.00 **IUNS Living Legends and Nevin Scrimshaw Tribute**

September 19th

- 08.00 – 10.00 **Parallel Symposium**
PS4-44 Nutrition in inflammatory bowel diseases. From basic to clinical application
- 10.30 – 11.00 **IUNS Award**
- 11.30 – 13.30 **Parallel Symposium**
PS4-52 International Life Sciences Institute (ILSI)
Session on food allergy
- 14.30 - 16.00 **Oral Communications**
- 16.00 - 16.30 **Special Lecture**
Diet and noncommunicable diseases: Lessons from the EPIC-Study

September 20th

- 08.00 – 10.00 **Parallel Symposium**
PS5-60 Maternal nutritional supplementation of HIV-infected women during lactation: Implications for maternal and infant health in resource-poor settings
- 10.30 – 12.00 **Parallel Symposium**
PS5-68 New insights in obesity, metabolic syndrome and diabetes

4 Nutrition and Management of Diseases

September 16th

- 08.00 – 10.00 **Parallel Symposium**
NPS1-5 Methods and outcomes of nutritional assessment and health monitoring
- 11.30 – 13.30 **Parallel Symposium**
PS1-5 The SMILING Project: A South East Asian-European collaborative action to prevent micronutrient deficiencies in women and young children in South-East Asia
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
Sweetness, satiation, and satiety

September 17th

- 08.00 – 10.00 **Parallel Symposium**
PS2-13 Harmonization of human zinc requirements and country experiences in assessing population zinc status
- 11.30 – 13.30 **Parallel Symposium**
PS2-21 Assessment of body composition from birth to 2 years
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
Developing suitable methods of nutritional status assessment, a continuous challenge

September 18th

- 08.00 – 10.00 **Parallel Symposium**
PS3-29 Vitamin A supplementation for children 6-59 months of age: Revisiting program strategies and priorities
- 11.30 – 13.30 **Parallel Symposium**
PS3-37 Findings from 5 birth cohorts from developing countries: The COHORTS collaboration
- 16.00-16.30 **Special Lecture**
Regulation of protein synthesis in skeletal muscle by leucine during the neonatal period

September 19th

- 08.00 – 10.00 **Parallel Symposium**
PS4-45 Iron and malaria (FeMal) project results
- 11.30 – 13.30 **Parallel Symposium**
PS4-53 Strengthening micronutrient nutrition surveillance: WHO and CDC tools and methods
- 14.30 - 16.00 **Oral Communications**
- 16.00 - 16.30 **Special Lecture**
Iron food fortification and anemia prevention

September 20th

- 08.00 – 10.00 **Parallel Symposium**
PS5-61 Micronutrient Fortification. Science and strategies for public health improvement in Asia
- 10.30 – 12.00 **Parallel Symposium**
PS5-69 Evaluation of food fortification and biofortification interventions in developing countries using stable isotopes.

5

Nutrients and Nutritional Assessment

September 16th

- 08.00 – 10.00 **Parallel Symposium**
NPS1-6 Diversity of physiological functions of amino acids and peptides
- 11.30 – 13.30 **Parallel Symposium**
PS1-6 The PREVIEW Project
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
Modulation of the gut microbiota by nutrients with prebiotic and probiotic properties

September 17th

- 08.00 – 10.00 **Parallel Symposium**
PS2-14 Dietary reference values for DNA damage prevention
- 11.30 – 13.30 **Parallel Symposium**
PS2-22 The role of nutrition in healthy ageing: Insight from the CHANCES Project
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
Iron nutrition of infants - what is too little and what is too much?

September 18th

- 08.00 – 10.00 **Parallel Symposium**
PS3-30 Fibres and the gut immune system (FIBEBIOTICS Project)
- 11.30 – 13.30 **Parallel Symposium**
PS3-38 HEALTHGRAIN Forum Symposium - Cereal foods and health - New results and science based nutrition guidelines
- 16.00-16.30 **Special Lecture**
Why alpha-linolenic acid (ALA) is essential: New research on plant based sources

September 19th

- 08.00 – 10.00 **Parallel Symposium**
PS4-46 Functional roles of human milk and other selected oligosaccharides
- 11.30 – 13.30 **Parallel Symposium**
PS4-54 Functional roles of prebiotic inulin-type fructans
- 14.30 - 16.00 **Oral Communications**
- 16.00 - 16.30 **Special Lecture**
Cardiovascular effects of dietary flavonoids - Is there a potential benefit in diabetes?

September 20th

- 08.00 – 10.00 **Parallel Symposium**
PS5-62 Functional properties of proteins of biological and food origin
- 10.30 – 12.00 **Parallel Symposium**
PS5-70 Phytochemicals responsible for the food function, from the chemistry to physiological relevance and human health

Functional Foods and Bioactive Compounds

6

September 16th

- 08:00 – 10:00 **Parallel Symposium**
NPS1-7 IUNS Task Force
The role of nutraceuticals in health along with basic nutrition
- 11.30 – 13.30 **Parallel Symposium**
PS1-7 Cultural differences in diet and nutrition across Europe. Impact on health (FENS)
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
Maternal nutrition and birth outcomes

September 17th

- 08.00 – 10.00 **Parallel Symposium**
PS2-15 Linking food security and nutrition education to improve infant and young child feeding
- 11.30 – 13.30 **Parallel Symposium**
PS2-23A China's nutrition transition: Implications of rapid social and economic change for non-communicable disease risk
- 11.30 – 13.30 **Parallel Symposium**
PS2-23B A global partnership to improve nutrition medicine in Vietnam
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
What would it take to ensure optimal growth among children in Africa

September 18th

- 08.00 – 10.00 **Parallel Symposium**
PS3-31A Building research capacity in Latin America to address NCDs and obesity
- 08.00 – 10.00 **Parallel Symposium**
PS3-31B IUNS Task Force. Traditional, indigenous and cultural food and nutrition
- 11.30 – 13.30 **Parallel Symposium**
PS3-39A ENLP - Nutrition during times of economic crisis, let's cook something up!
- 11.30 – 13.30 **Parallel Symposium**
PS3-39B IUNS Task Force. Capacity development in innovative techniques in food and nutrition research
- 14.30 – 16.30 **Debate**
Timing to introducing complementary foods into the infant diet
- 16.00-16.30 **Special Lecture**
Bioactive foods and ingredients for health

September 19th

- 08.00 – 10.00 **Parallel Symposium**
PS4-47 Mediterranean diet and disease
- 11.30 – 13.30 **Parallel Symposium**
PS4-55 PREDIMED study
- 14.30 - 16.00 **Oral Communications**
- 16.00 - 16.30 **Special Lecture**
Innovation and quick-wins in nutrition policies in WHO European Region

September 20th

- 08.00 – 10.00 **Parallel Symposium**
PS5-63A Regulation versus innovation (IUFOST)
- 08.00 – 10.00 **Parallel Symposium**
PS5-63B Food systems for nutrition and health: Growing, shopping, cooking and eating
- 10.30 – 12.00 **Parallel Symposium**
PS5-71A The value of nutrition labelling: Has nutrition labelling reduced any chronic diseases? (IUFOST)
- 10.30 – 12.00 **Parallel Symposium**
PS5-71B IUNS Task Force
Urbanization, climate change and nutrition insecurity

Food culture practices and Nutritional Education

7

September 16th

- 08.00 – 10.00 **Parallel Symposium**
NPS1-8 IUNS Task Force
IMAPP (Intake, Monitoring and Program Planning): Software nutrient intake data
- 11.30 – 13.30 **Parallel Symposium**
PS1-8 Food-based approaches to improve multiple micro-nutrient deficiencies and protein quality
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
Assessing and improving the quality of food composition databases for nutrition and health applications

September 17th

- 08.00 – 10.00 **Parallel Symposium**
PS2-16 IUNS Task Force
Food composition (FAO)
- 11.30 – 13.30 **Parallel Symposium**
PS2-24 Sugars and health – the controversies continue (EUFIC)
- 14.30-16.00 **Oral Communications**
- 16.00-16.30 **Special Lecture**
Sustainable diets: How nutrition can save the planet

September 18th

- 08.00 – 10.00 **Parallel Symposium**
PS3-32 Low-calorie sweeteners: Are they safe and can they help with weight management?
- 11.30 – 13.30 **Parallel Symposium**
PS3-40 FESNAD forum: Nutrition claims
- 16.00 – 16.30 **Special Lecture**
Agrinutrition. Where are we going?

8

Agriculture, Food Science and Safety

September 20th

- 08.00 – 10.00 **Parallel Symposium**
PS5-64 Feeding workers
- 10.30 – 12.00 **Parallel Symposium**
PS5-72 The shift toward a modern industrialized food system, potential implications for nutrition-related chronic diseases and for public policies

September 19th

- 08.00 – 10.00 **Parallel Symposium**
PS4-48 Bellagio report on healthy agriculture, healthy nutrition, healthy people
- 11.30 – 13.30 **Parallel Symposium**
PS4-56 Food and Nutrition Reporting in the Media
- 08.00 – 10.00 **Parallel Symposium**
PS4-48B European school food network
- 11.30 – 13.30 **Parallel Symposium**
PS4-56B Mitigating affordability constraints to accessing nutrient requirements
- 14.30 – 16.00 **Oral Communications**
- 16.00 – 16.30 **Special Lecture**
Identifying and characterizing the effects of nutrition on learning and memory

Sunday, September 15th

Lorca Auditorium 19:00 - 21:00 | Opening Ceremony

- 19.00 - 21.00** **Opening ceremony**
19.00 - 19.30 **Welcome by 20th ICN and IUNS Presidents and Spanish Authorities**
19.30 - 20.15 **Opening Lecture**

Chair: Angel Gil, University of Granada, Granada, Spain

The New Sustainable Development Goals and Nutrition

Maria Neira, Director Public Health and Environment, World Health Organization (WHO)

- 20.15 - 21.00** **Performance**

Monday, September 16th

Andalucia Rooms 08.00 - 10.00 | Parallel Symposium

NPS1-1
T1 - 1.2

Early life nutrition intervention: Effects on long term health and function (Early Nutrition Project)

*Chairs: Berthold Koletzko, University of Munich, Munich, Germany
 Keith P. West, Johns Hopkins University, Baltimore, USA*

*Early nutrition programming of adult health - opportunities for prevention of obesity and associated disorders
 Berthold Koletzko, University of Munich, Munich, Germany*

*The Southampton Women's Survey: from epidemiology to interventions and policy
 Keith Godfrey, University of Southampton, Southampton, UK*

*Long term effects of early life micronutrient interventions in undernourished settings
 Parul Christian, Johns Hopkins University, Baltimore, USA*

*Antenatal dietary exposures and nutritional status on offspring health in undernourished settings
 Sophie Moore, London School of Hygiene and Tropical Medicine, London, UK*

11.30 - 13.30 | Parallel Symposium

PS1-1
T1 - 1.1

Developments in personalised nutrition: What's next? (Food4Me Project)

*Chairs: Mike Gibney, University College Dublin, Dublin, Ireland
 J. Alfredo Martinez, University of Navarra, Pamplona, Spain*

*Personalised nutrition, an introduction
 Mike Gibney, University College Dublin, Dublin, Ireland*

*Exploring future opportunities and barriers for business model concepts in personalized nutrition
 Jo Goossens, Bio-Sense, Aarschot, Belgium*

*What do consumers think about personalised nutrition?
 Lynn Frewer, Newcastle University Technology and Software in Personalised Nutrition, Newcastle, UK*

*Technology and software in personalised nutrition
 Hannelore Daniel, Technische Universität München, Munich, Germany*

Personalised nutrition intervention, how effective is personalised nutrition advice?

John Mathers, Newcastle University, Newcastle, UK

Is it right? The ethical and legal implications of personalised nutrition

Ulf Görman, Lund University & Jönköping University, Jönköping, Sweden

14.30-16.00 | Oral Communications

T1

Chairs: Concepcion Aguilera, University of Granada, Spain

M^a Jesus Moreno Aliaga, University of Navarra, Pamplona, Spain

- O001 TUMOR SUPPRESSOR GLYCINE-N METHYLTRANSFERASE REGULATES ONE CARBON TRANS-METHYLATION KINETICS
E P. Chiang, National Chung Hsing University, Taiwan, China
- O002 RELATIONSHIP BETWEEN VITAMIN A STATUS OF LACTATING SENEGALESE WOMEN AND THEIR 6 MONTHS OLD INFANTS
S. Wade, Universite Cheikh Anta Diop De Dakar, Senegal
- O003 GENOME-WIDE VARIANCE CONTRIBUTION OF GENOTYPE BY ERYTHROCYTE N-3 POLYUNSATURATED FATTY ACIDS INTERACTION TO DIABETES-RELATED TRAITS
J S. Zheng, Department of Food Science and Nutrition, Zhejiang University, Hangzhou, China
- O004 THE METABONOMIC RESEARCH ON PRETERM INFANTS WITH NRDS
X. Liu, Clinic Department of Guangzhou Women and Children Medical Centre, Beijing, China
- O005 THE EXPRESSION OF TASTE RECEPTOR hTAS2R FAMILY OF DIABETICS
T. Takao, Faculty of Human Life and Environmental Science, Showa Women's University, Tokyo, Japan
- O006 LEPTIN RECEPTOR GENETIC VARIANTS ARE SEX-SPECIFIC ASSOCIATED WITH BMI IN OBESE CHILDREN
J. Olza, Department of Biochemistry and Molecular Biology II, University of Granada, Spain
- O007 THE MTHFR 677TT GENOTYPE AND ITS INTERACTION WITH RELATED B-VITAMINS IN HYPERTENSION
R. Reilly, Northern Ireland Centre for Food and Health (NICHE), University of Ulster, Coleraine, Co. Derry, Northern Ireland
- O008 PRECLINICAL EVALUATION OF THE INFLUENCE OF FEEDING WITH SLOW DIGESTING CARBOHYDRATES DURING PREGNANCY ON PROGRAMMING OFFSPRING METABOLIC HEALTH (NIGOHealth study)
R. Rueda, Discovery R&D, Abbott Nutrition, Granada, Spain

16.00-16.30 | Special Lecture

T1

Chair: Marta Garaulet, University of Murcia, Murcia, Spain

Chronobiology and obesity: The number 25, the initial point

Fred W. Turek, Northwestern University in Evanston and Chicago, Illinois, USA

Machado and Picasso Rooms

08.00 – 10.00 | Parallel Symposium

NPS1-2
T2 – 2.1

Efficacy of lipid-based nutrient supplements for prevention of maternal and infant undernutrition in Africa: Results of the iLiNS Project

Chairs: Kathryn Dewey, University of California, Davis, USA

Per Ashorn, University of Tampere School of Medicine, Finland

Introduction to the iLiNS Project

Kathryn Dewey, University of California, Davis, USA

Efficacy of reduced-cost formulations of LNS for infants and young children in Malawi: The iLiNS-DOSE study

Kenneth Maleta, University of Malawi, Zomba, Malawi

Evaluation of the optimal amount of zinc to include in LNS for infants and young children: The iLiNS-ZINC study in Burkina Faso

Sonja Hess, University of California, Davis, USA

Efficacy of LNS products for pregnant & lactating women: Pregnancy outcomes from the iLiNS-DYAD studies in Ghana and Malawi

Seth Adu-Afarwauh, University of Ghana, Ghana

Per Ashorn, University of Tampere School of Medicine, Tampere, Finland

Willingness to pay for LNS products and cost-effectiveness estimates for the iLiNS Project sites

Stephen A. Vosti, University of California, Davis, USA

Panel discussion of the iLiNS Project results and audience comments and questions

Purnima Menon, International Food Policy Research Institute, Washington, USA

Roland Kupka, United Nations Children's Fund, Dakar, Senegal and Harvard School of Public Health, Boston, USA

Ellen Piwoz, Bill & Melinda Gates Foundation, Washington, DC, USA

11.30 – 13.30 | Parallel Symposium

**PS1-2
T2 - 2.3**

Nutrition and lifestyle in adolescents: The HELENA study

Chairs: Stefaan De Henauw, Ghent University, Ghent, Belgium

Luis Moreno, University of Zaragoza, Zaragoza, Spain

Perinatal nutrition and adolescent's health

Frederic Gottrand, University of Lille, Lille, France

Dietary intake in European adolescents: Issues and controversies

Inge Huybrechts, International Agency for Research on Cancer, Lyon, France

Adolescent's physical inactivity: Causes and consequences

Jonatan Ruiz, University of Granada, Granada, Spain

Vitamin status in adolescents: Is there a need for intervention?

Marcela Gonzalez-Gross, Polytechnic University of Madrid, Madrid, Spain

14.30-16.00 | Oral Communications

T2

Chairs: Mauro Fisberg, Department of Pediatrics, Escola Paulista de Medicina, Federal University of Sao Paulo, UNIFESP, Brazil

Francisco Ortega, Department of Physical Education and Sports, Faculty of Sport Sciences, University of Granada, Granada, Spain

O009 BREASTFEEDING ATTENUATES THE EFFECT OF LOW BIRTH WEIGHT ON ABDOMINAL ADIPOSITY; THE HELENA STUDY

I. Labayen, Department of Nutrition and Food Sciences, University of the Basque Country, Vitoria, Spain

O010 NUTRITION EFFECT OF YYB INTERVENTION ON 6-24 MONTHS INFANTS IN WENCHUAN EARTH QUACK REGION IN CHINA

J S. Huo, Institute of Nutrition and Food Safety, China

- O011 INFANT MACRONUTRIENT INTAKE AND CARDIOVASCULAR STRUCTURES AND FUNCTION IN CHILDHOOD: THE GENERATION R STUDY
E H. van den Hooven, Department of Epidemiology, Erasmus MC, University Medical Center, Rotterdam, The Netherlands
- O012 MICRONUTRIENT DEFICIENCIES OF ADOLESCENT GIRLS IN CENTRAL MOZAMBIQUE - ZANE-STUDY
R. Freese, Division of Nutrition, University of Helsinki, Helsinki, Finland
- O013 IS THE CURRENT STATUS CONTRIBUTING TO REDUCE THE EXCLUSIVE BREASTFEEDING LENGTH?
A E M. Rinaldi, Graduation Program Of Nutrition In Public Health- School Of Public Health - University Of Sao Paulo (USP)/ School Of Medicine - Federal University Of Uberlandia, Uberlandia, Minas Gerais, Brazil
- O014 EFFECT OF ANIMAL-SOURCE FOODS AND MICRONUTRIENT-FORTIFICATION COMPLEMENTARY FOODS ON BODY COMPOSITION, LINEAR GROWTH, IRON STATUS - THE WINFOOD PROJECT IN CAMBODIA
J K H. Skau, Department of Nutrition, Exercise and Sports, Faculty of Science, University of Copenhagen, Denmark
- O015 MATERNAL LCPUFA STATUS DURING PREGNANCY AND CHILD INTERNALISING AND EXTERNALISING PROBLEMS. THE GENERATION R STUDY
J. Steenweg-de Graaff, The Generation R Study Group, Erasmus Medical Centre, Rotterdam, The Netherlands
- O016 VITAMIN B12 SUPPLEMENTATION OF BANGLADESHI WOMEN DURING PREGNANCY AND LACTATION INCREASES VITAMIN B12 IN BREAST MILK AND IMPROVES INFANT STATUS
T. Siddiqua, Program in International and Community Nutrition, University Of California, Davis, USA

16.00-16.30 | Special Lecture

T2

Chair: Ricardo Uauy, University of Chile, Santiago, Chile

Omega-3 fatty acid sources for human health: What are the choices, what about sustainability?

Norman Salem, DSM Nutritional Products, Columbia, USA

Fall Auditorium

08.00 - 10.00 | Parallel Symposium

NPS1-3
T3 - 3.6

Nutrition and environmental sustainability (FAO)

Chairs: Harriet Kuhnlein, Centre for Indigenous People Nutrition and the Environment, Montreal, Canada
Barbara Burlingame, FAO, Rome, Italy

Introduction: Diets, foods, and nutrients as ecosystem services
Barbara Burlingame, FAO, Rome, Italy

Traditional food systems of indigenous peoples
Harriet Kuhnlein, Centre for Indigenous People Nutrition and the Environment, Montreal, Canada

Developing guidelines, methods and indicators for sustainable diets
Barbara Burlingame, FAO, Rome, Italy

Calculating environmental impacts of diets: The Mediterranean diet as a case study
Lluís Serra-Majem, University of Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain

Selected communications

1. Influence of agricultural biodiversity on household food security and stunted growth in children aged 24-59 months in rural Kenya
S. Ochoa, Department of Food, Nutrition and Dietetics, Kenyatta University, Nairobi, Kenya

2. Nutritional diversity of national food systems linked to child nutrition
Jesica Fanzo, The Earth Institute at Columbia University, Palisades, USA

11.30 – 13.30 | Parallel Symposium

PS1-3
 T3 – 3.5

Global nutrition strategies (WHO)

Chair: Ibrahim Elmadfa, University of Vienna, Austria

The place of food security and nutrition in the global development debate
Juliet Alphane, FAO, Rome, Italy

Goals, targets and indicators for the post 2015 development agenda
Leslie Elder, World Bank, Washington DC, USA

Reducing stunting: targets, commitments, roadmap and achievements
Werner Schultink, UNICEF, New York, USA

Aligning the world food supply to people's nutrition needs
Francesco Branca, WHO, Geneva, Switzerland

Nutrition sensitive agriculture
Sean Kennedy, International Fund for Agricultural Development (IFAD), Rome, Italy

14.30-16.00 | Oral Communications

T3

Chairs: Stefaan De Henauw, Ghent University, Ghent, Belgium
Marieta Fernandez Cabrera, Centre of Biomedical Research, University of Granada, Spain

- O017 DIGESTIVE HEALTH AND BOWEL FUNCTION DURING THE MENSTRUAL CYCLE: THE EFFECT OF DIET AND HORMONAL CONTRACEPTIVE USE
L. Dye, University Of Leeds, Leeds, UK
- O018 EVIDENCE ABOUT SUGAR-SWEETENED BEVERAGES AND WEIGHT GAIN: IS THE POTENTIAL FINANCIAL CONFLICTS OF INTEREST BIASING THE CONCLUSIONS?: A SYSTEMATIC REVIEW
M. Bes-Rastrollo, Dept. of Preventive Medicine and Public Health, University of Navarra, Spain
- O019 IRON FORTIFICATION INTERVENTIONS: SYNTHESIS OF RESULTS FROM THREE RANDOMIZED TRIALS IN ASIA
J L. Finkelstein, Division of Nutritional Sciences, Cornell University, USA
- O020 PARENTAL SPORTS AND TV TIME AS MEDIATORS OF PARENTAL EDUCATION DIFFERENCES IN CHILDREN'S SPORTS AND TV TIME: THE ENERGY-PROJECT
J M. Fernandez Alvira, GENUD (Growth, Exercise, Nutrition and Development) Research Group. Faculty of Health Sciences, University of Zaragoza, Zaragoza, Spain
- O021 RISK FACTORS FOR PRELACTEAL FEEDINGS IN SEVEN LATIN AMERICA AND CARIBBEAN COUNTRIES
C. Boccolini, Department of Social Nutrition, Rio de Janeiro State University, Brasil
- O022 CALORIES AND ENERGY BALANCE: THE IMPORTANCE OF SMALL STEPS TO TRIGGER BIG CHANGE TOWARDS REVERSING OBESITY
L. Sutherland, Dartmouth College, Hanover, NH, USA
- O023 HEMOCHROMATOSIS GENE (HFE) MUTATIONS AND THE RISK OF GASTRIC CANCER IN THE EUROPEAN PROSPECTIVE INVESTIGATION INTO CANCER AND NUTRITION STUDY
Agudo, Molecular Epidemiology Group, Translational Research Laboratory, Catalan Institute of Oncology-IDIBELL, Barcelona, Spain
- O024 THE SPANISH OBSERVATORY OF NUTRITION AND STUDY OF OBESITY: A NECESSARY ACTION
N. Perez-Farinos, Spanish Agency for Food Safety and Nutrition, Spain

16.00-16.30 | Special Lecture

T3

Chair: Suzanne Murphy, University of Hawaii, USA

The role of policy and regulation in improving diets

Boyd Swinburn, Epidemiology and Biostatistics Department University of Auckland, Auckland, New Zealand

Lorca Auditorium

08.00 – 10.00 | Parallel Symposium

NPS1-4
T4 - 4.1

Dietary lipids and the risk of common diseases

Chairs: Teru Yanagita, Nishikyushu University and Saga University, Japan
Teruo Miyazawa, Tohoku University, Sendai, Japan

Reduction of an overactive endocannabinoid system by dietary fat

Sebastiano Banni, Dipartimento di Scienze Biomediche, Università di Cagliari, Cagliari, Italy

Significance of phosphatidylcholine hydroperoxide in the pathogenicity of atherosclerosis

Teruo Miyazawa, Tohoku University, Sendai, Japan

Lipids and risk of life-style related diseases

Yung Sheng Huang, Department of Nutrition, I-Shou University, Kaohsiung City, China

Postprandial metabolism of docosapentaenoic acid (DPA, 22:5n-3) and eicosapentaenoic acid (EPA, 20:5n-3) in humans

Andrew J Sinclair, Deakin University, School of Medicine (Metabolic Research Unit), Victoria, Australia

Dietary lipids and the prevention of obesity and inflammation

Teru Yanagita, Nishikyushu University and Saga University, Saga, Japan

10.30 – 11.30 | Plenary Lecture

Chair: J. Alfredo Martinez, University of Navarra, Pamplona, Spain

The resolution of inflammation. Is there anything nutrients can do for it?

Charles N. Serhan, Harvard Institutes of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, USA

11.30 – 13.30 | Parallel Symposium

PS1-4
T4 - 4.4

IUNS Task Force
Scaling up prevention and treatment of malnutrition*

Chairs: Ricardo Uauy, University of Chile, Santiago, Chile
Anna Lartey, University of Ghana, Legon, Ghana

The Waterlow Lecture: The SUN movement: in support of country-led action for improving people's nutrition

David Nabarro, Movement for Scaling Up Nutrition, United Nations, New York, USA

Scaling-up prevention of stunting

Tahmeed Ahmed, Centre for Nutrition & Food Security ICDDR, Dhaka, Bangladesh

Scaling-up treatment of severe malnutrition: Challenges

Marie-Pierre Allie, Medecins sans Frontieres, Paris, France

Getting a country moving: Experience of Tanzania
Rose Kingamkono, SUN Civil Society, Dar Es Salaam, Tanzania

Windows of opportunity
Shenggen Fan, Director General International Food Policy Research Institute (IFPRI), Washington DC, USA

**A Post-Discussion session will take place from 13.30 to 16.30 in Seminars 3, 4 and 5*

14.30-16.00 | Oral Communications

T4

Chairs: Josefina Bressan, Universidade Federal de Viçosa. Departamento de Nutrição e Saúde, Viçosa-MG, Brazil
David Jimenez Pavon, GENUd (Growth, Exercise, NUtrition and Development), Juan de la Cierva (MICINN), University of Zaragoza, Zaragoza, Spain

- O025 EFFECTS OF DIETARY SUPPLEMENTATION WITH EICOSAPENTAENOIC ACID AND LIPOIC ACID IN HEALTHY OVERWEIGHT/OBESE WOMEN FOLLOWING AN ENERGY RESTRICTED DIET
A. Huerta, Department of Food Science and Physiology, University of Navarra, Pamplona, Navarra, Spain
- O026 IMPACT OF VITAMIN A AND ZINC ON DIARRHEAL E. COLI INFECTIONS AND ASSOCIATED DIARRHEAL EPISODES AMONG CHILDREN IN MEXICO CITY, MEXICO
K. Long, School of Population Health, University of Queensland, Australia
- O027 INPATIENT MANAGEMENT OF INFANTS SUFFERING FROM ACUTE MALNUTRITION AND THEIR OUTCOME DEPENDING OF THEIRS CHARACTERISTICS
E. Chounfack, University of Ngaoundere, Cameroon
- O028 EFFECTS OF L-CARNITINE SUPPLEMENT ON PLASMA COAGULATION AND ANTICOAGULATION FACTORS IN HEMODIALYSIS PATIENTS
F. Hakeshadeh, Faculty of Nutrition Sciences and Food Technology, Shahid Beheshti University of Medical Sciences, Tehran, Islamic Republic of Iran
- O029 THE BENEFICIAL EFFECTS OF THE RESMENA DIETARY PATTERN ON OXLDL IN PATIENTS WITH METABOLIC SYNDROME
R. De La Iglesia, Department of Nutrition, Food Science and Physiology. University of Navarra, Spain
- O030 EFFECT OF PHYSICAL ACTIVITY OR NUTRITION EDUCATION ON ANTHROPOMETRY AND BLOOD PRESSURE OF OVERWEIGHT OR OBESE ADOLESCENTS
R. Valdes-Ramos, Center for Research and Graduate Studies In Health Sciences, Faculty of Medicine, UAEM, Mexico
- O031 NUTRITIONAL AND GENETIC DETERMINANTS OF CAROTID ATHEROSCLEROSIS, INFLAMMATORY CYTOKINES AND BONE MASS IN CHINESE ADULTS: A 3-YEAR PROSPECTIVE STUDY
Y. Chen, Department of Medical Statistics & Epidemiology, Sun Yat-Sen University, Guangzhou, China
- O032 EFFECTS OF ZINC SUPPLEMENTATION ON SERUM LEPTIN LEVEL AND INSULIN SENSITIVITY IN OBESE PEOPLE
L. Payahoo, Nutrition Research Center, Department of Nutrition, Faculty of Health And Nutrition, Tabriz University of Medical Science, Iran
- O033 ASSOCIATION BETWEEN THE IMPROVEMENT IN ANXIETY SYMPTOMS WITH WEIGHT LOSS IN SUBJECTS WITH METABOLIC SYNDROME
A. Perez-Cornago, Department of Nutrition, Food Science and Physiology. University of Navarra, Spain

16.00-16.30 | Special Lecture

T4

Chair: James O Hill, Anschutz Health and Wellness Center, University of Colorado Anschutz Medical Campus, Aurora, USA

Differential diagnosis and management in childhood obesities

Jesus Argente, Department of Paediatrics, Univesidad Autonoma de Madrid, Madrid, Spain

Room B
08.00 – 10.00 | Parallel Symposium

NPS1-5
T5 – 5.5

Methods and outcomes of nutritional assessment and health monitoring

Chairs: Ibrahim Elmadfa, University of Vienna, Vienna, Austria
Cristina Campoy, University of Granada, Granada, Spain

Using biomarkers for the validation of nutrient reference intake values and to verify intake data in nutrition surveys

Ibrahim Elmadfa, University of Vienna, Vienna, Austria

Iodine status

Pauline Emmett, University of Bristol, Bristol, UK

Plasma levels of fatty acids-binding protein associated with antioxidant status

Eunju Park, Kyungnam University, Changwon, Republic of Korea

Evaluation of the water soluble vitamin-status in Austrian pregnant women

Petra Rust, University of Vienna, Vienna, Austria

Revision of the Chinese Iodine DRIs and some issues of USI

Wanqi Zhang, W. Chen, M. Li, XL Ren, Q. Zhang, Tianjin Medical University, Tianjin, China

Indicators of healthy aging and age-related frailty

Heiner Boeing, DIFE, Potsdam, Germany

11.30 – 13.30 | Parallel Symposium

PS1-5
T5

The SMILING Project: A South East Asian-European collaborative action to prevent micronutrient deficiencies in women and young children in South-East Asia

Chairs: Emorn Wasantwisut, Institute of Nutrition, Mahidol University, Bangkok, Thailand
Jacques Berger, Institute of Research for Development (IRD), Montpellier, France

The SMILING project: A North-South-South collaborative action to prevent micronutrient deficiencies in women and young children in South-East,

Jacques Berger, Institute of Research for Development (IRD), Montpellier, France

SEA country situations: priority problems and national/specific programs

Siti Muslimatum, University of Indonesia, Indonesia

Pattanee Winichagoon, Mahidol University, Salaya, Thailand

State-of-the-art of interventions to control micronutrient deficiencies

Nanna Roos, University of Copenhagen, Copenhagen, Denmark

Potential of food based approaches to control micronutrient deficiencies (mathematical modeling)

Elaine Ferguson, London School of Hygiene & Tropical Medicine, London, UK

Country intervention strategy evaluation by stakeholders

Yves Kameli, Institute of Research for Development (IRD), Montpellier, France

Way ahead: SMILING in the global context

Emorn Wasantwisut, Institute of Nutrition, Mahidol University, Nakhon Pathom, Thailand

14.30-16.00 | Oral Communications

T5

*Chairs: Sidiga Washi, United Arab Emirates University, UAE
Mari Nieves Garcia Casal, Instituto Venezolano de Investigaciones Cientificas, Centro de Medicina Experimental, Caracas, Venezuela*

- O034 VALIDATION OF THE INTERACTIVE TWENTY-FOUR HOUR RECALL METHOD AMONG GHANAIA CHILDREN
D. Nketiah, Department of Nutrition And Food Science, University of Ghana, Legon, Ghana
- O035 BODY COMPOSITION OF KUWAITI CHILDREN; ESTABLISHMENT OF A STABLE ISOTOPE FACILITY FOR ASSESSMENT OF TOTAL BODY WATER IN KUWAIT
T. Al-Ati, Kuwait Institute for Scientific Research, Kuwait
- O036 PERCENTILE DISTRIBUTION OF ANTHROPOMETRIC VARIABLES OF BODY COMPOSITION IN PREGNANT WOMEN
I. Rached-Sosa, Centro de Atencion Nutricional Infantil Antimano CANIA, Caracas, Distrito Federal, Venezuela
- O037 GROUNDWATER IRON IN BANGLADESH: DOES IT CONTRIBUTE TO POPULATION IRON NUTRITION?
S. Rahman, Centre for Nutrition and Food Security, icddr, b, Dhaka, Bangladesh
- O038 IDENTIFYING KEY FOOD SOURCES OF VITAMIN A, IRON AND ZINC AND POTENTIAL FOOD FORTIFICATION VEHICLES IN BANGLADESH
O. Bermudez, Tufts University School Of Medicine, Boston, USA
- O039 ADOLESCENT GIRLS IN INDONESIA ARE AT RISK OF INADEQUATE MICRONUTRIENT INTAKES
R. Indriasari, Nutrition Department, Faculty Of Public Health, Hasanuddin University, Indonesia
- O040 THE MAIN GROWTH PARAMETERS OF 7 AND 8 YEAR-OLD LITHUANIAN CHILDREN IN HISTORICAL PERSPECTIVE
A. Petrauskien, Institute of Health Research, Academy of Medicine, Lithuanian University of Health Sciences, Kaunas, Lithuania
- O041 CROSS-SECTIONAL ADIPOSITY AND LEAN MASS OF SIX MONTH OLD INFANTS DETERMINED BY DEUTERIUM OXIDE DOSE-TO-INFANT IN RURAL KENYA
S. Onyango-Omollo, Institute of Tropical and Infectious Diseases, University Of Nairobi, Kenya
- O041b METHODS OF MEASURING OVERWEIGHT AND OBESITY, AMONG 6-9 YEARS SCHOOL CHILDREN IN ALAIN CITY, UAE
Sidiga Washi, United Arab Emirates University, UAE

16.00-16.30 | Special Lecture

T5

Chair: Marion Hetherington, Department of Biopsychology, Institute of Psychological Sciences, University of Leeds, Leeds, UK

Sweetness, satiation, and satiety

France Bellisle, Faculty of Medicine, Laval University, Quebec. Centre de Recherche en Nutrition Humained'Ile de France, Universite Paris, Bobigny, France

Room C

08.00 - 10.00 | Parallel Symposium

NPS1-6
T6 - 6.1**Diversity of physiological functions of amino acids and peptides**

*Chairs: Yoshiharu Shimomura, Nagoya University Graduate School of Bioagricultural Sciences, Japan
Sidney M. Morris, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA*

Amino acid profiling for clinical diagnosis and amino acid-based personalized nutrition
Yasushi Noguchi, Ajinomoto Co., Inc., Japan

Dietary supplementation with specific amino acid mixtures promotes mitochondrial biogenesis: physiological and pathophysiological relevance in mammals
Enzo Nisoli, Milan University, Milan, Italy

Physiological functions of soybean peptides

Hiroshi Hara, Hokkaido University Graduate School of Agriculture, Sapporo, Japan

Recent advances in arginine metabolism: roles and regulation of the arginases

Sidney M. Morris, Jr., University of Pittsburgh School of Medicine, Pittsburgh, PA USA

11.30 – 13.30 | Parallel Symposium

PS1-6
T6 – 6.1

The PREVIEW Project

Chairs: Anne Birgitte Raben, University of Copenhagen, Copenhagen, Denmark

Santiago Navas-Carretero, University of Navarra, Pamplona, Spain

The role of diet in the prevention of type-2 diabetes (State-of-the art)

Jennie Brand-Miller, University of Sydney, Sydney, Australia

Physical activity and the prevention of diabetes: Previewing the evidence

Gareth Stratton, Research into Exercise Activity and Children's Health Group (REACH), Swansea, UK

Preview: prevention of diabetes through lifestyle intervention and population studies in Europe and around the world

Anne Raben, University of Copenhagen, Copenhagen, Denmark

The preview-intervention trial: Design and methods

Mikael Fogelholm, University of Helsinki, Helsinki, Finland

The preview-population studies: Design and methods

Edith Feskens, Wageningen University, Wageningen, the Netherlands

14.30-16.00 | Oral Communications

T6

Chairs: Mauro Serafini, Agricultural Research Council (CRA), Rome, Italy

Fermin Milagro, University of Navarra, Pamplona, Spain

- O042 DADIZEIN SOY ISOFLAVONE AND ITS GUT METABOLITE, EQUOL: A REVIEW OF ANIMAL AND HUMAN STUDIES
F. Bagherzadeh, Students' Research Committee, Faculty of Health & Nutrition, Tabriz University of Medical Sciences, Tabriz, Iran
- O043 EFFECT OF FRUCTOOLIGOSACCHARIDES AND GALACTOOLIGOSACCHARIDES IN GERM FREE MICE
M. Ortega Gonzalez, Department of Biochemistry and Molecular Biology II. School of Pharmacy. University of Granada. Granada, Spain
- O044 DEVELOPMENT OF MULTIFUNCTIONAL BAKERY BIO-INGREDIENTS CONTAINING TWO IMPORTANT VITAMINS, FOLATE AND B12
J. Sych, Institute of Food and Beverage Innovation, Zurich University of Applied Sciences, Zurich, Switzerland
- O045 ANTI-INFLAMMATORY EFFECTS OF HYDROALCOHOLIC EXTRACT FROM EUTERPE OLERACEA MART. (AÇAÍ)
J. Daleprane, Department of Basic and Experimental Nutrition, Institute of Nutrition, State University of Rio de Janeiro, Brazil
- O046 COMPARING THE EFFECT OF PROBIOTIC AND CONVENTIONAL YOGHURT CONSUMPTION ON LIPID PROFILE IN PATIENTS WITH NON-ALCOHOLIC FATTY LIVER DISEASE (NAFLD)
S. Nabavi, Students' Research Committee, Faculty of Nutrition, Tabriz University of Medical Sciences, Tabriz, Iran
- O047 ROLE OF POLYPHENOL JUICE DRINKS IN THE PREVENTION OF POSTPRANDIAL INFLAMMATORY STRESS IN HUMANS
M. Serafini, CRA-Ex-INRAN, Italy

- O048 THE EFFECT OF DAILY ORANGE JUICE CONSUMPTION ON BLOOD LIPIDS, IN OVERWEIGHT MEN
I. Macdonald, School of Biomedical Sciences, University of Nottingham, Nottingham, UK
- O049 A FRAXINUS EXCELSIOR L. SEED EXTRACT, FRAXIPURE® HAS FAVORABLE EFFECTS ON GLUCOSE HOMEOSTASIS IN ELDERLY OVERWEIGHT SUBJECTS
J. Flanagan, Naturex Spain S.L. Valencia, Spain

16.00-16.30 | Special Lecture

T6

Chair: Ascension Marcos, Institute of Food and Technology and Nutrition (ICTAN), Spanish National Research Council (CSIC), Madrid, Spain

Modulation of the gut microbiota by nutrients with prebiotic and probiotic properties

Nathalie Delzenne, Universite Catholique de Louvain, Louvain, Belgium

Machuca and Albeniz Rooms

08:00 – 10:00 | Parallel Symposium

**NPS1-7
T7 – 7.4**

IUNS Task Force

The role of nutraceuticals in health along with basic nutrition

Chairs: Vishveshwaraiah Prakash, Council member of IUFOST and IUNS distinguished scientist of CSIR, Mysore, India

Olga Martinez, CIBERehd, University of Granada, Granada, Spain

Global nutrient security and nutrient bioavailability

Huub Lelieveld, President of the Global Harmonization Initiative, Bilthoven, The Netherlands

Ancient wisdom and nutraceuticals - International perspective

Lekh R. Juneja, Taiyo Kagaku Co., Ltd., Japan

Drug-induced nutrient depletion: Unmet clinical need or label warning?

Vishveshwaraiah Prakash, Council member of IUFOST and IUNS, distinguished scientist of CSIR, Mysore, India (On behalf of Maruthi Prasad Palthur, Indigene Pharmaceuticals, Inc, Los Angeles, New Jersey, USA)

Mapping Fruit, Vegetable and Phytonutrient Consumption Globally

Yumei Li, Group Leader, Supplement Product Development, Amway Corporation, USA

11.30 – 13.30 | Parallel Symposium

**PS1-7
T7 – 7.6**

Cultural differences in diet and nutrition across Europe. Impact on health (FENS)

Chairs: Ascension Marcos, President of FENS, Institute of Food and Technology and Nutrition (ICTAN), Spanish National Research Council (CSIC), Madrid, Spain

Denis Lairon, Vice President of FENS

Is the Mediterranean diet the best one in Europe?

Marisa Porrini, Department of Food, Environmental and Nutritional Sciences, University of Milan, Milan, Italy

Does local diet lead to a more sustainable diet?

Inga Thorsdottir, School of Health Sciences, University of Iceland, Reykjavik, Iceland

Diet and health in the middle of Europe

Heiner Boeing, Department of Epidemiology, German Institute of Human Nutrition Potsdam-Rehbruecke, Potsdam, Germany

Nutrition and politic-eastern countries' effect of the transformation

Małgorzata Schlegel-Zawadzka, Institute of Public Health, Jagiellonian University Medical College, Krakow, Poland

14.30-16.00 | Oral Communications

T7

Chairs: Anura V. Kurpad, St John's Medical College, Bangalore, India

Theodora Mourathidou, European Commission, Joint Research Centre, Institute for Health and Consumer Protection (IHCP), Public Health Policy Support Unit, Ispra, Italy

O050 RELAPSES FROM ACUTE MALNUTRITION IN A COMMUNITY-BASED MANAGEMENT PROGRAM IN BURKINA-FASO

Y E. Somasse, Ecole de Sante Publique, Universite Libre De Bruxelles, Brussels, Belgium

O051 NATIONAL DIETARY SURVEY (NDS): FAMILIAL AGGREGATION OF DIETARY PATTERNS IN BRAZIL
E. Yokoo, Institute of Community Health of Fluminense Federal University, Niteroi, Rio de Janeiro, Brazil

O052 THE MEDITERRANEAN DIET IMPROVES THE LOW-DENSITY LIPOPROTEIN PARTICLE SIZE PHENOTYPE IN MEN WITH METABOLIC SYNDROME

C. Richard, Institute of Nutrition and Functional Foods, Laval University, Quebec, Quebec, Canada

O053 IMPACT OF FORTIFIED FOODS DURING LAST DECADE IN THE NETHERLANDS

C. Van Rossum, National Institute for Public Health And The Environment (RIVM), Bilthoven, The Netherlands

O054 FOOD SECURITY AND NUTRITIONAL STATUS OF FISHING COMMUNITIES IN THE BOLIVIAN AMAZON BASIN

S. Baker French, Faculty of Land and Food Systems, University of British Columbia, Vancouver, BC, Canada

O055 WEIGHT OF MODERNITY PART II: THE NUTRITION AND HEALTH IMPLICATIONS OF THE DISAPPEARING AUSTRALIAN DESSERT

C. Banwell, National Centre for Epidemiology and Population Health, Australian National University, Canberra, Australia

O056 DIETS OF MALIAN AND MOROCCAN PEOPLE LIVING IN THEIR HOME COUNTRIES AND IN FRANCE AND ITS ASSOCIATION WITH ECONOMIC STATUS

S. Fortin, UMR 204 Nutripass, IRD-UM2-UM1 - Institut de Recherche pour le Developpement (IRD), Montpellier, France

O057 UPGRADE ON THE NUTRITIONAL TRANSITION IN BOLIVIA

F J A. Perez-Cueto, Aalborg University, Meal Science and Public Health Nutrition Research Unit (MENU), Copenhagen NV, Denmark

16.00-16.30 | Special Lecture

T7

Chair: Alan Jackson, Continuous Update Project, University of Southampton, Southampton, UK

Maternal nutrition and birth outcomes

Zulfiqar Bhutta, The Aga Khan University, Karachi, Pakistan

Room D

08.00 – 10.00 | Parallel Symposium

NPS1-8
T8 – 8.1

IUNS Task Force

IMAPP (Intake, Monitoring and Program Planning): Software nutrient intake data

Chairs: Lindsay Allen, USDA, ARS Western Human Nutrition Research Center, Davis, CA, USA

Emilio Martinez de Victoria, Institute of Nutrition and Food Technology, University of Granada, Granada, Spain

Intake, monitoring and planning program (IMAPP) – what are its capabilities?

Alicia Carriquiry, Iowa State University, Ames, USA

Using the IMAPP software; information required for optimal application
Suzanne Murphy, University of Hawaii, Honolulu, USA

Harmonizing micronutrient recommendations world-wide
Lindsay Allen, USDA, ARS Western Human Nutrition Research Center, Davis, CA, USA

Application of the IMAPP for planning, monitoring and evaluation of flour fortification programs
Kevin Sullivan (on behalf of Helena Pachon, the Flour Fortification Initiative, Emory University, Atlanta, GA, USA)

Establishing desirable fortificant levels for calcium, iron and zinc in foods for infant and young child feeding: Examples from three Asian countries
Rosalind Gibson, Department Human Nutrition, University Of Otago, Dunedin, New Zealand

11.30 – 13.30 | Parallel Symposium

PS1-8
 T8 – 8.1

Food-based approaches to improve multiple micro-nutrient deficiencies and protein quality

Chairs: Suzanne Murphy, University of Hawaii, Honolulu, USA
Miguel Navarro, University of Granada, Spain

Introduction and overview of global micro-nutrient deficiency and protein quality
Charlotte G. Neumann, Fielding School of Public Health and David Geffen School of Medicine, UCLA, USA

Dietary approaches to diet quality improvement
Suzanne Murphy, University of Hawaii, Honolulu, USA

Complementary feeding recommendations from locally available foods
Umi Fahmida, University of Indonesia, Jakarta, Indonesia

Effect of food-based supplement prior to and during pregnancy on birth weight and prematurity in rural Vietnam (vinavac study)
Tu Ngu, Vietnam Nutrition Association, Hanoi, Vietnam

Meat intervention in Chinese infants
Nancy Krebs, University of Colorado, Denver, USA

Food-based approaches in Ethiopia
Barbara Stoecker, Oklahoma State University, Stillwater, USA

Use of omena fish in Kenya,
Constance Gewa, George Mason University, Fairfax, USA

Community interventions for dietary improvement in Ghana
Grace S. Marquis, McGill University, Ste Anne de Bellevue, Canada and Esi Colecraft, University of Ghana, Accra, Ghana

Meat vs. soy biscuit intervention trial in HIV drug naïve Kenyan women and children
Judy Ernst, University of Indiana, Indianapolis, USA

14.30-16.00 | Oral Communications

T8

Chairs: Maria Daniel Vaz de Almeida, Faculty of Nutrition and Food Sciences, University of Porto, Porto, Portugal

Miguel Navarro, Department of Nutrition and Food Sciences, University of Granada, Spain

- O058 INFLUENCE OF PROXIMATE VALUES ON VITAMIN A STABILITY OF NIGERIAN WHEAT FLOUR AND BREAD
F. Uchendu, National Open University of Nigeria, Lagos
- O059 THE DISTRIBUTION AND CONTENT OF FOUR PURINES IN 600 COMMON FOOD
Y. Yang, Institute of Nutrition and Food Safety, Chinese CDC
- O060 NUTRITIONAL AND TOXICOLOGICAL ANALYSES OF LEAVES AND FRUITS OF SOLANUM MACROCARPON LINN (SOLANACEAE) IN COTONOU (BENIN)
V. Dognon, Polytechnic School of Abomey-Calavi, Research Laboratory in Applied Biology, University of Abomey-Calavi, Cotonou, Benin
- O061 AN EVALUATION OF THE HEALTH AND ECONOMIC IMPACT OF THE CURRENT NATIONAL POLICY TO ELIMINATE TRANS FAT ACIDS (TFA) IN ARGENTINA
A. Rubinstein, CESCAS, Institute for Clinical Effectiveness and Health Policy, Boston, USA
- O062 LEAF PROTEIN CONCENTRATES FROM INDIGENOUS PLANTS FOR IMPROVING NUTRITIONAL QUALITY OF LOCAL FOODS IN THE GARHWAL HIMALAYAS, INDIA
A. Dutta, G.B.Pant University of Agriculture & Technology, Teheri Garhwal, India
- O063 EVALUATION OF MACRO AND MICRO NUTRIENT COMPOSITION ON SOME PROCESSED LESSER KNOWN GREEN LEAFY VEGETABLES IN SOUTH EAST NIGERIA
O. Grace Taiwo Olawale, University of Nigeria Nsukka, Nigeria
- O064 THE HIGHER THE INTAKE OF PROCESSED AND ULTRA-PROCESSED FOOD PRODUCTS, THE LOWER THE AMOUNT OF FRUITS IN THE BRAZILIAN DIET
A. P. Martins, Nucleo de Pesquisas Epidemiologicas em Nutrição E Saude - NUPENS/USP, Brazil
- O065 STUNTING AMONG CHILDREN UNDER TWO IN RURAL NEPAL: THE ROLE OF WOMEN'S EMPOWERMENT IN AGRICULTURE
K. Cunningham, Department of Population Health, London School of Hygiene and Tropical Medicine, London, UK

16.00-16.30 | Special Lecture

T8

Chair: Ruth Charrondiere, FAO, Rome, Italy

Assessing and improving the quality of food composition databases for nutrition and health applications

Paul Finglas, Institute of Food Research, Norwich, UK

Tuesday, September 17th

Andalucia Rooms
08.00 – 10.00 | Parallel Symposium

PS2-9
T1 – 1.4

Biomarkers of nutrition for development: An overview (BOND)

Chairs: Daniel J Raiten, U.S. National Institutes of Health, Bethesda, MD, USA
Ian Darnton-Hill, University of Sydney, Sydney, Australia

BOND overview and summary of expert panel reports
Daniel J Raiten, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), National Institutes of Health (NIH), Bethesda, MD, USA

Demo of BOND website and query based system
Kripa Raghavan, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), National Institutes of Health (NIH), Bethesda, MD, USA

Addressing cross-cutting issues
Fayrouz Ashour, Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), National Institutes of Health (NIH), Bethesda, MD, USA

Roadmap for BOND: A Panel Discussion and interaction with the audience
Ian Darnton-Hill, University of Sydney, Sydney, Australia

11.30 – 13.30 | Parallel Symposium

PS2-17
T1 – 1.4

Immunonutrition in health and disease

Chairs: Ascension Marcos, Institute of Food and Technology and Nutrition (ICTAN), Spanish National Research Council (CSIC), Madrid, Spain
Roxana Valdes, Center for Research and Graduate Studies in Health Sciences (CIEACS), Faculty of Medicine, Autonomous University of Mexico D.F., Mexico D.F., Mexico

Administration of polyphenol-enriched nutraceuticals to elderly people and effects on the immune responsiveness
Emilio Jirillo, University of Bari, Bari, Italy

Probiotics as protective agents against Enterobacteria
Gabriela Perdigon, University of Tucuman, CONICET, Tucuman, Argentina

Geography and the immunoinflammatory processes in overweight and obesity
Roxana Valdes, Centre for Research and Graduate Studies in Health Sciences, Autonomous University of Mexico D.F., Mexico D.F., Mexico

Immunomodulatory role of mother's milk
Jorge Mujico, Institute of Food and Technology and Nutrition (ICTAN), Spanish National Research Council (CSIC), Madrid, Spain

14.30-16.00 | Oral Communications

T1

*Chairs: Lynette Ferguson, University of Auckland, Auckland, New Zealand
Pedro Gonzalez Muniesa, Department of Nutrition, Food Science and Physiology, University of Navarra, CIBER Fisiopatologia de la Obesidad y Nutricion (CIBERObn), Pamplona, Navarra, Spain*

- O066 TOTAL ENERGY AND SATURATED FAT INTAKE MODULATE THE ASSOCIATION BETWEEN AN OBESITY GENETIC RISK SCORE AND BMI
P. Casas Agustench, Nutrition and Genomic Laboratory, Jean Mayer United States Department of Agriculture Human Nutrition Research Center on Aging at Tufts University, Boston, MA, USA
- O067 OBESITY IN ADOLESCENTS FROM SOUTH OF EUROPE VERSUS CENTER-NORTH OF EUROPE: ROLE OF PHYSICAL ACTIVITY, DIET AND GENETICS
F B. Ortega, Department of Physical Education and Sports, Faculty of Sport Sciences, University of Granada, Granada, Spain
- O068 RIBOFLAVIN LOWERS BLOOD-PRESSURE IN HYPERTENSIVE'S WITH THE MTHFR 677TT GENOTYPE
M. Ward, Northern Ireland Centre for Food and Health, University of Ulster, Coleraine, N Ireland
- O069 CHRONO-NUTRITION: MOLECULAR MECHANISM OF DISRUPTION OF LIVER CLOCK BY IRREGULAR FEEDING
H. Oda, Laboratory of Nutritional Biochemistry, Nagoya University
- O070 DIETARY LOW PROTEIN COMBINED WITH HIGH FAT INDUCES ABDOMINAL FAT ACCUMULATION IN RATS
L. Otani, Food for Life, Organization for Interdisciplinary Research Projects, The University of Tokyo, Japan
- O071 THE ANTI-PROLIFERATIVE EFFECT OF BOWMAN-BIRK INHIBITORS ON HT29 COLON CANCER CELLS IS ASSOCIATED WITH THE INHIBITION OF SERINE PROTEASES
A. Clemente, Department of Physiology and Biochemistry of Animal Nutrition, Estacion Experimental del Zaidin (CSIC), Granada, Spain
- O072 ALDOSE REDUCTASE (AR) ACTIVITY IN RBCs & AR ACTIVITY AND EXPRESSION IN TUMORS OF HUMAN CANCER SUBJECTS
U. Putcha, Division of Pathology, National Institute Of Nutrition, Hyderabad, Andhra Pradesh, India
- O073 INFLUENCE OF DIET ON COLONIC FERMENTATION AND ENDOGENOUS FORMATION OF N-NITROSO COMPOUNDS
S W. Gratz, Rowett Institute of Nutrition and Health, University of Aberdeen, UK

16.00-16.30 | Special Lecture

T1

Chair: Angel Gil, University of Granada, Granada, Spain

Integrated nutrition: From molecules to populations

Mike Gibney, University College Dublin, Dublin, Ireland

Machado and Picasso Rooms

08.00 – 10.00 | Parallel Symposium

PS2-10
T2 – 2.5

**Energy balance and active living
(ILSI North America and ILSI Europe)**

*Chairs: James O. Hill, Anschutz Health and Wellness Center, University of Colorado Anschutz Medical Campus, Denver, USA
Marcela Gonzalez-Gross, Polytechnic University of Madrid, Madrid, Spain*

Perspective on the Influence of diet/food consumption on energy balance
Gregorio Varela Moreiras, University of CEU San Pablo, Madrid, Spain

Complexity of methodologies for studying energy balance
David Allison, University of Alabama, Birmingham, LA, USA

Physical activity: Impact on mortality and morbidity

Steven Blair, Arnold School of Public Health, University of South Carolina, Columbia, USA

Perspective on the influence of physical activity on energy balance

John Blundell, Institute of Psychological Sciences, University of Leeds, Leeds, UK

11.30 – 13.30 | Parallel Symposium

**PS2-18
T2 – 2.1**

Healthy life style promotion

Chairs: Jonatan Ruiz, University of Granada, Granada, Spain

Francisco B. Ortega, Department of Physical Education and Sports, Faculty of Sport Sciences, University of Granada, Granada, Spain

Lifestyle interventions on weight loss and cardiometabolic risk factors

Bret H. Goodpaster, University of Pittsburgh, PA, Pittsburgh, USA

Combined effect of exercise and diet on fat mass and leptin resistance

Jose L Calbet, University of las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain

Dose response effect of aerobic vs resistance training: Evidence from randomized controlled trials

Steven N. Blair, University of South Carolina, Columbia, USA

Gene × healthy lifestyle interactions in type 2 diabetes

Paul Franks, Genetic & Molecular Epidemiology Unit, Clinical Research Center, Skåne University Hospital, Lund University, Malmö, Sweden

14.30-16.00 | Oral Communications

T2

Chairs: Antonio Sanchez Pozo, University of Granada, Granada, Spain

Esther Nova, Institute of Food and Technology and Nutrition (ICTAN), Spanish National Research Council (CSIC), Madrid, Spain

- O074 MATERNAL OBESITY, PRE-PREGNANCY AND GESTATIONAL DIABETES AND IMPACT ON BIRTH SIZE OF OFFSPRING, AUSTRALIA
P H. Lahmann, School of Population Health, University of Queensland, Herston Road, Herston, Australia
- O075 LOW OMEGA-3 INDEX IN PREGNANCY IS A POSSIBLE BIOLOGICAL RISK FACTOR FOR POSTPARTUM DEPRESSION
M W. Markhus, National Institute of Nutrition and Seafood Research (NIFES), Bergen, Norway
- O076 EFFICACY OF DRIED AMARANTH LEAVES (AMARANTHUS CRUENTUS) CONSUMPTION ON VITAMIN A, IRON AND ZINC OF CHILDREN IN KAJIADO COUNTY, KENYA
P. Chege, Department of Food, Nutrition and Dietetics, Kenyatta University, Kenya
- O077 FIRST TRIMESTER FOLIC ACID SUPPLEMENTATION ENHANCES FOLATE STATUS THROUGHOUT PREGNANCY AND REDUCES THE EFFECT OF THE MTHFR 677C>T POLYMORPHISM
O. Bueno, Area of Preventive Medicine and Public Health, Faculty of Medicine and Health Sciences, Universitat Rovira i Virgili (URV), IISPV, Reus, Spain
- O078 THE DIETARY PATTERNS OF MOTHERS DURING PREGNANCY, THEIR CHILD AT AGE FIVE YEARS AND CHILD WEIGHT STATUS
C. Murrin, School of Public Health, Physiotherapy, and Population Science, University College Dublin, Dublin, Ireland
- O079 CELL PHONE BASED PEER COUNSELING TO SUPPORT EXCLUSIVE BREASTFEEDING IS ASSOCIATED WITH MORE FREQUENT HELP AND DECREASED BREASTFEEDING PROBLEMS
E. Kamau-Mbuthia, Department of Human Nutrition, Egerton University, Njoro, Kenya
- O080 EFFECT OF BREASTFEEDING PATTERN ON GROWTH AND MOTOR MILESTONE DEVELOPMENT OF INFANTS ATTENDING BABY CLINIC IN A NIGERIAN TEACHING HOSPITAL
H. Ene-Obong, Department of Biochemistry (Nutrition Unit), University of Calabar, Calabar, Cross River State, Nigeria

- O081 THE DIETARY EFFECT OF SERVING SCHOOL MEALS BASED ON THE NEW NORDIC DIET – A RANDOMISED CONTROLLED TRIAL IN DANISH CHILDREN
R. Andersen, Division Of Nutrition, National Food Institute, Technical University of Denmark, Denmark
- O194 TOWARD GUIDELINES FOR MATERNAL AND INFANT NUTRITION TO INFLUENCE LONG-TERM HEALTH OF THE OFFSPRING: THE PAST AND FUTURE OF ILSI EUROPE WORK ON METABOLIC IMPRINTING
R. Rueda, Department of Research and Development, Abbott Nutrition, Granada, Spain

16.00-16.30 | Special Lecture

T2

Chair: Luis Moreno, University of Zaragoza, Zaragoza, Spain

Towards body composition reference data for children and adolescents

Jonathan C Wells, University College London, London, UK

Falla Auditorium

08.00 – 10.00 | Parallel Symposium

PS2-11
T3 – 3.2

Global challenges in maternal and child nutrition for today and the future

Chairs: Susan Walker, Tropical Medicine Research Institute, The University of the West Indies, Mona Campus, Kingston, Jamaica

Isabel Polanco, Full Professor of Pediatrics, Autonomous University of Madrid, Madrid, Spain

Prevalence of maternal and child undernutrition and childhood obesity and consequences for health and human capital

Robert Black, Johns Hopkins Bloomberg School of Public Health, Baltimore, USA

Nutrition-sensitive developments

Marie T. Ruel, International Food Policy Research Institute (IFPRI), Washington DC, USA

What can be done and what will it cost?

Zulfiqar Bhutta, The Aga Khan University and Medical Center, Karachi, Pakistan

Securing and sustaining the political momentum for addressing malnutrition

Stuart Gillespie, International Food Policy Research Institute (IFPRI), UK

Closing comments

Anna Lartey, University of Ghana, Legon, Ghana

11.30 – 13.30 | Parallel Symposium

PS2-19
T3 – 3.2

Confronting the global epidemic of non-communicable diseases: findings from the NHLBI/UHG Global Network

Chairs: Benjamin Caballero, International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, USA

Antonio Sanchez-Pozo, University of Granada, Granada, Spain

The NIH NHLBI/UHG centers of excellence: A model for international research collaboration

Cristina Rabadan-Diehl, NHLBI Office of Global Health, Bethesda, USA

Primary prevention of nutrition-related chronic diseases: Innovative interventions in Latin America

Manuel Ramirez-Zea, INCAP Research Center for the Prevention of Chronic Diseases, Guatemala, Guatemala

China rural health initiative – sodium reduction study: A cluster randomized trial on a community-based dietary sodium reduction program

Lijing Yan, China International Center for Chronic Disease Prevention, Beijing, China

Baseline characteristics of a school based intervention to promote healthy diet in Sousse, Tunisia

Hassen Ghannem, University Hospital FarhatHached, Sousse, Tunisia

14.30-16.00 | Oral Communications

T3

*Chairs: Inge Huybrechts, International Agency for Research on Cancer, Lyon, France
Jonatan Ruiz, University of Granada, Granada, Spain*

- O082 PRESCHOOL FOOD AND DRINK PROVISION AND CONSUMPTION IN EARLY YEARS EDUCATION AND CARE SETTINGS IN ENGLAND
M. Nelson, Children's Food Trust, Sheffield, UK
- O083 INTAKE OF WHOLE GRAINS AND INCIDENCE OF GASTRIC AND OESOPHAGEAL CANCER IN THE HELGA COHORT
G. Skeie, Department Of Community Medicine, University Of Tromsø, Tromsø, Norway
- O084 PHYSICAL ACTIVITY LEVELS AMONG COLOMBIAN ADULTS: INEQUALITIES BY SEX AND SOCIOECONOMIC STATUS
S. Gonzalez, Department of Public Health, School of Medicine, University of los Andes, Bogota, Colombia
- O085 CONSUMPTION OF ULTRA-PROCESSED PRODUCTS IS ASSOCIATED WITH OBESITY IN ADOLESCENTS AND ADULTS IN BRAZIL
M L C. Louzada, School of Public Health/University of Sao Paulo, Brazil
- O086 COMPARISON OF MUAC AND PERCENT WEIGHT GAIN AS DISCHARGE CRITERION IN A LARGE TFP PROGRAM IN BURKINA FASO - 2007-2011
S. Cohuet, Epicentre Medecins Sans Frontieres, France
- O087 DAILY SODIUM CONSUMPTION AND CARDIOVASCULAR MORTALITY IN GENERAL POPULATION. SYSTEMATIC REVIEW AND META-ANALYSIS OF PROSPECTIVE STUDIES
R. Poggio, Institute for Clinical Effectiveness and Health Policy (IECS), Buenos Aires, Argentina
- O088 DIETARY PROTEIN INTAKE AND THE INCIDENCE OF TYPE 2 DIABETES IN EUROPE: THE EPIC-INTERACT CASE-COHORT STUDY
M. van Nielen, Division of Human Nutrition, Wageningen University, Wageningen, The Netherlands
- O089 LOW DIETARY DIVERSITY IS ASSOCIATED WITH CHILD STUNTING IN RURAL ETHIOPIA
E. Custodio, Centro Nacional de Medicina Tropical, Instituto de Salud. Carlos III, Madrid, Spain

16.00-16.30 | Special Lecture

T3

Chair: Mikael Fogelholm, University of Helsinki, Helsinki, Finland

Energy balance and obesity

James O. Hill, Anschutz Health and Wellness Center, University of Colorado Anschutz Medical Campus, Denver, USA

Lorca Auditorium

08.00 – 10.00 | Parallel Symposium

**PS2-12
T4 – 4.3**

Food, nutrition, physical activity and cancer – Keeping the evidence current: WCRF/AICR Continuous Update Project (CUP)

*Chairs: Alan Jackson, University of Southampton, Southampton, UK
Marieta Fernandez, Centre of Biomedical Research, University of Granada, Granada, Spain*

Evidence-based recommendations for prevention of cancer and other chronic diseases: the 2007 and 2009 WCRF/AICR Reports

Martin Wiseman, WCRF International, London, UK

The WCRF/AICR Continuous Update Project – Aims and Process
Teresa Norat, Imperial College London, London, UK

The WCRF/AICR Continuous Update Project –Systematic Reviews on Nutrition, Physical Activity and Health Outcomes in Cancer Survivors
Anne McTiernan, Fred Hutchinson Cancer Research Center, Seattle, USA

The WCRF/AICR Continuous Update Project:-Systematic Reviews of Animal and Human Mechanistic Studies in Relation to Food, Nutrition, Physical Activity and Cancer
Martin Wiseman, WCRF International, London, UK

WCRF/AICR Continuous Update Project (CUP) & Future Implications
Alan Jackson, University of Southampton, Southampton, UK

10.30 – 11.30 | Plenary Lecture (E.V. McCollum lecture)

Chair: Emorn Wasantwisut, Institute of Nutrition, Mahidol University, Bangkok, Thailand

Micronutrient Research, Programs and Policy: From Meta-analyses to Metabolomics
Lindsay Allen, USDA, ARS Western Human Nutrition Research Center, Davis, CA, USA

11.30 – 13.30 | Parallel Symposium

PS2-20
T4 - 4.1

Tackling obesity in pre-school children: First results from the ToyBox Study

*Chairs: John J Reilly, Strathclyde University, Glasgow, Scotland
Concepcion Aguilera, University of Granada, Granada, Spain*

Preschool childhood obesity: A review of existing studies and the first results of the ToyBox-study
Yannis Manios, Harokopio University, Athens, Greece

Pre-school children's physical activity and sedentary behaviours
Ilse De Bourdeaudhuij, University of Ghent, Ghent, Belgium

Pre-school children's food intake and snacking habits and their determinants
Luis Moreno, University of Zaragoza, Zaragoza, Spain

Development and implementation of the ToyBox intervention
Berthold Koletzko, Ludwig Maximilians University, Munich, Germany

14.30-16.00 | Oral Communications

T4

*Chairs: Theodora Hanchieva-Darlenska, Department of Pharmacology and Toxicology, Faculty of Medicine, Medical University, Sofia, Bulgaria
Fermin Sanchez de Medina, Department of Pharmacology, University of Granada, Granada, Spain*

O090 DNA DAMAGE AND CHROMOSOMAL STABILITY IN HEALTHY AND DIABETIC INDIVIDUALS AND THE IMPACT OF VEGETABLES AND WALNUT OIL

K H. Wagner, Department of Nutritional Sciences, University of Vienna, Vienna, Austria

O091 IMPACT OF RELATIVE PROTEIN INTAKE DURING SEVERE ENERGY RESTRICTION ON BODY COMPOSITION AND RESTING ENERGY EXPENDITURE IN OBESE ADULTS

N. Byrne, School of Exercise and Nutrition Sciences & Institute of Health and Biomedical Innovation, Queensland University of Technology, Brisbane, Queensland, Australia

- O092 NUTRITIONAL STUDY WITH FUNCTIONAL OMEGA-3 ENRICHED MILK IN CELIAC DISEASE PATIENTS. THE CIBOM STUDY
J. Fonolla, Departamento de Nutricion. Facultad de Farmacia. Complutense University of Madrid, Spain
- O093 EFFECTS OF TWO ENERGY-RESTRICTED DIETS DIFFERING ON PROTEIN CONTENT ON THE INFLAMMATION STATE OF OBESE SUBJECTS WITH METABOLIC SYNDROME FEATURES
P. Lopez-Legarrea, Department of Nutrition, Food Science and Physiology, University of Navarra, Spain
- O094 INCREASING ENERGY AND ZINC INTAKES TO LEVEL RECOMMENDED BY WHO IMPROVE FAT-FREE MASS BUT NOT ZINC STATUS IN HIV/AIDS PEOPLE
A. Badiane, Laboratoire De Nutrition, Departement de Biologie Animale, Faculte des Sciences et Techniques, Universite Cheikh Anta Diop De Dakar, Senegal
- O095 LIFESTYLE RECOMMENDATIONS FOR CANCER PREVENTION AND SURVIVAL AFTER DIAGNOSIS OF COLORECTAL CANCER: RESULTS FROM THE EPIC STUDY
D. Romaguera, Research Unit, University Hospital Son Espases, Spain
- O096 DID THE CYCLONE "SENDONG" IN PHILIPPINES AFFECT MALNUTRITION LEVELS OF CHILDREN IN THE PHILIPPINES?
E. Rivero, Accion Contra El Hambre, Madrid, Spain
- O097 DIETARY CAROTENOIDS AND BREAST CANCER RISK AMONG CHINESE WOMEN
C. Zhang, Department of Medical Statistics and Epidemiology, Sun Yat-Sen University, Guangzhou, People's Republic of China

16.00-16.30 | Special Lecture

T4

Chair: Rosaura Leis, Department of Pediatrics, University of Santiago de Compostela, Santiago de Compostela, Spain

Nutritional rickets around the world

Gail Goldberg, MRC Human Nutrition Research, Cambridge, UK

Room B

08.00 – 10.00 | Parallel Symposium

PS2-13
T5 – 5.4

Harmonization of human zinc requirements and country experiences in assessing population zinc status

*Chairs: Rosalind Gibson, University of Otago, Dunedin, New Zealand
Emorn Wasantwisut, Institute of Nutrition, Mahidol University, Bangkok, Thailand*

Harmonization of estimates of human zinc requirements, including safe upper intake levels
Kenneth Brown, University of California, Davis, CA, USA

Recommendations for assessing individual zinc status and population risk of zinc deficiency (BOND, EURRECA and IZiNCG conclusions) including updated results of national food balance sheets to estimate the risk of inadequate dietary zinc intake
K Ryan Wessells, University of California, USA

National experience in assessing the risk of zinc deficiency – Pakistan
Zulfiqar Bhutta, Aga Khan University, Karachi, Pakistan

National experience in assessing the risk of zinc deficiency – Mexico
Salvador Villalpando, Instituto Nacional de Salud Publica, Cuernavaca, Mexico

National experience in assessing the risk of zinc deficiency – Cameroon
Reina Engle-Stone, University of California, Davis, USA

11.30 – 13.30 | Parallel Symposium

PS2-21
T5 – 5.1

Assessment of body composition from birth to 2 years

Chairs: Ricardo Uauy, University of Chile, Santiago, Chile
John Shepherd, University of California, San Francisco, USA

Structure and function - the importance of body composition assessment during early life
Alan Jackson, University of Southampton, Southampton, UK

Body composition measurement techniques in infants
Kenneth Ellis, Baylor College of Medicine, Houston, USA

Standardization of body composition from birth to 2 years of age - an international initiative
Lena Davidsson, Kuwait Institute for Scientific Research, Kuwait Safat, Kuwait

Quality control issues related to body composition assessment
Steve Wootton, University of Southampton, Southampton, UK

14.30-16.00 | Oral Communications

T5

Chairs: Roxana Valdes, Valdes, Center for Research and Graduate Studies in Health Sciences (CIEACS), Faculty of Medicine, Autonomous University of Mexico D.F, Mexico
Luis Gracia, Children's Health and Exercise Research Centre, College of Life and Environmental Sciences, Sport & Health Sciences, University of Exeter, Devon, UK

- O098 ZINC ABSORPTION FROM RICE IS SIMILAR WHEN ZINC IS INTRINSICALLY INCREASED THROUGH BIOFORTIFICATION OR EXTRINSICALLY ADDED AS ZnSO₄
M. Brnic, Laboratory of Human Nutrition, Institute of Food, Nutrition and Health, ETH Zurich, Switzerland
- O099 SEX DIFFERENCES OF VITAMIN E METABOLISM IN RATS
A. Takenaka, Department of Agricultural Biochemistry, School of Agriculture, Meiji University, Kawasaki, Kanagawa, Japan
- O100 IODINE EXCRETION HAS DECREASED IN DENMARK DURING THE LAST 5-6 YEARS
L B. Rasmussen, Division of Nutrition, National Food Institute, Technical University of Denmark
- O101 EVALUATION OF ZINC STATUS AND COMMUNITY PERCEPTIONS IN PAKISTAN: THE NATIONAL NUTRITION SURVEY 2011
S. Soofi, Department of Paediatrics & Child Health, Aga Khan University, Pakistan
- O102 DEFINING OBESITY USING BIOLOGICAL END POINT IN CHILDREN
V P. Wickramasinghe, Department of Paediatrics, University of Colombo, Sri Lanka
- O103 RIBOFLAVIN STATUS IS INVERSELY ASSOCIATED WITH HOMOCYSTEINE AND DETERMINES THE EFFECT OF THE MTHFR 677C>T POLYMORPHISM ON HOMOCYSTEINE DURING PREGNANCY
C.J. Garcia-Minguillan, Area of Preventive Medicine and Public Health, Faculty of Medicine and Health Sciences, Universitat Rovira I Virgili, IISPV, Reus, Spain
- O104 AN INADEQUATE FRUIT AND VEGETABLE INTAKE HAS ONLY A SMALL EFFECT ON VITAMIN STATUS IN EUROPEAN ADOLESCENTS- THE HELENA STUDY
C. Breidenassel, Department of Nutrition and Food Science, University of Bonn, Bonn, Germany
- O105 CLASSIFICATION OF BODY MASS INDEX OF RURAL AND PERI-URBAN SCHOOL CHILDREN AND ADOLESCENTS IN NIGERIA USING TWO INTERNATIONAL STANDARDS
H. Ene-Obong, Department of Biochemistry (Nutrition Unit), University of Calabar, Calabar, Cross River State, Nigeria

16.00-16.30 | Special Lecture

T5

*Chair: Angel Gil, University of Granada, Granada, Spain***Developing suitable methods of nutritional status assessment, a continuous challenge***Ibrahim Elmadfa, University of Vienna, Vienna, Austria*

Room C

08.00 – 10.00 | Parallel Symposium

PS2-14
T6 – 6.1**Dietary reference values for DNA damage prevention***Chairs: Ibrahim Elmadfa, University of Vienna, Vienna, Austria**Michael Fenech, Preventative Health Flagship, Adelaide, Australia**The concept and relevance of DRVs for DNA damage prevention**Michael Fenech, Nutrigenomics and DNA Damage Diagnostics CSIRO, Preventative Health Flagship, Adelaide, Australia**Vitamins and DNA damage prevention**Ibrahim Elmadfa, University of Vienna, Vienna, Austria**Minerals and DNA damage prevention**Lynn Ferguson, University of Auckland, Auckland, New Zealand**Phytonutrients and DNA damage prevention**Andrew Collins, University of Oslo, Oslo, Norway*

11.30 – 13.30 | Parallel Symposium

PS2-22
T6 – 6.1**The role of nutrition in healthy ageing: Insight from the CHANCES Project***Chairs: Antonia Trichopoulou, University of Athens Medical School, Hellenic Health Foundation, Athens, Greece**Gregorio Varela Moreiras, University of CEU San Pablo, Madrid, Spain**Nutrition and osteoporotic fractures in the elderly: Insight from the CHANCES project**Vasiliki Benetou, University of Athens Medical School, Athens, Greece**Biomarkers and nutrition**Eugène HJM Jansen, National Institute for Public Health and the Environment, Bilthoven, The Netherlands**Association of height and telomere length in the CHANCES consortium**Linda Broer, Erasmus University Medical Centre, Rotterdam, The Netherlands**25-hydroxyvitamin D levels and mortality**Jose Manuel Ordoñez Mena, German Cancer Research Centre, Heidelberg, Germany*

14.30-16.00 | Oral Communications

T6

Chairs: Manuel Hernandez, Department of Biochemistry and Physiology, Institute of Nutrition and Food Hygiene, Havana, Cuba
Maria del Puy Portillo, Department of Nutrition and Food Sciences, University of the Basque Country, Vitoria, Spain

- O106 FRUIT MACROANTIOXIDANTS, A NEW TYPE OF MAJOR PLANT FOOD CONSTITUENTS, SIGNIFICANTLY CONTRIBUTE TO THE INTAKE OF ANTIOXIDANTS IN THE DIET
J. Perez-Jimenez, Dpt. Metabolism and Nutrition, Institute of Food and Technology and Nutrition (ICTAN), Spanish National Research Council (CSIC), Madrid, Spain
- O107 EFFECT OF A DIETARY SUPPLEMENT IN BODY COMPOSITION IN PERIMENOPAUSAL WOMEN
V. Calabria Torres, Autonomous University of Madrid, Spain
- O108 EFFECTS OF SEAWEED-RESTRUCTURED PORK DIETS ENRICHED WITH CHOLESTEROL ON RAT LIVER HISTOLOGICAL PARAMETERS
A R. Schultz Moreira, Departamento de Nutricion y Bromatologia I (Nutricion); Facultad de Farmacia, Complutense University of Madrid, Madrid, Spain
- O109 PRECLINICAL EVALUATION OF THE IMMUNOMODULATORY EFFECT OF LACTOBACILLUS PLANTARUM 3547 ON HUMAN MACROPHAGES AND OBESE WISTAR RATS
M. Tabernero, Experimental Surgery Department, Hospital La Paz Health Research Institute, Madrid, Spain
- O110 LACTOBACILLUS REUTERI DSM 17938 AND LACTOBACILLUS CASEI CRL 431 MODESTLY INCREASE GROWTH, NOT IRON AND ZINC STATUS, AMONG INDONESIAN CHILDREN
R. Agustina, SEAMEO RECFON (Southeast Asian Ministers of Education Organization Regional Center For Food and Nutrition), University of Indonesia, Indonesia
- O111 CONSUMPTION OF A POLYPHENOL-RICH ORANGE JUICE IMPROVES ENDOTHELIAL BIOMARKERS IN OVERWEIGHT AND OBESE ADULTS.(BIONAOS STUDY)
O. Rangel, Department of Biochemistry and Molecular Biology II, Institute of Nutrition and Food Technology Jose Mataix, Biomedical Research Centre, University of Granada, Granada, Spain
- O112 TEMPE AND TOFU FLOUR MAY HAVE POSITIVE EFFECT ON COGNITIVE FUNCTION
A. Kridawati, Faculty of Health Sciences, University Of Respati Indonesia, Indonesia
- O113 EFFECT OF ADMINISTRATION OF CARNITINE ON THE CARDIAC AND ERYTHROPOIETIC FUNCTION OF CARNITINE DEFICIENT PATIENTS
Y. Aoki, Institute of Medullasin, Florida, USA

16.00-16.30 | Special Lecture

T6

Chair: Mari Nieves Garcia, Instituto Venezolano de Investigaciones Cientificas (IVIC), Venezuela

Iron nutrition of infants - what is too little and what is too much?

Bö Lönnerdal, University of California, Davis, USA

Machuca and Albeniz Rooms

08.00 - 10.00 | Parallel Symposium

PS2-15
T7 - 7.1

Linking food security and nutrition education to improve infant and young child feeding

Chairs: Barbara Burlingame, FAO, Rome, Italy
Maria Puy Portillo, Department of Nutrition and Food Sciences, University of the Basque Country, Vitoria, Spain

Agriculture-nutrition linkages: potentials and limitations for improving young children's diets through local foods
Ellen Muehlhoff, FAO, Rome, Italy



Experience and lessons from trials of improved practices: Consultative research with caregivers
Theresa Jeremias, FAO, Rome, Italy

Scaling up food security and nutrition education: opportunities and constraints
Gina Kennedy, FAO, Rome, Italy

Challenges of Applied Nutrition Research
Michael Krawinkel/Irmgard Jordan, Institute of Nutritional Sciences, Justus Liebig University, Giessen, Germany

(Machuca)
11.30 – 13.30 | Parallel Symposium

PS2-23A
T7 – 7.6

China's nutrition transition: Implications of rapid social and economic change for non-communicable disease risk

Chairs: Barry M. Popkin, University of North Carolina, Chapel Hill, NC, USA
Zhai Fengying, Chinese Nutrition Society, Fenghua Haojing, Beijing, China

Introduction: The China Health and Nutrition Survey
Barry Popkin, University of North Carolina, Chapel Hill, NC, USA

China in the 1950-1982 period—a period of scarcity, a very traditional lifestyle, and extensive undernutrition
Shufa Du, University of North Carolina, Chapel Hill, USA

The evolution of the Chinese diet
Fengying Zhai, Chinese Nutrition Society, Fenghua Haojing, Beijing, China

The physical activity transition in China: 1989 to 2011
Huijun Wang, Chinese Center for Disease Control and Prevention, Beijing, China

Obesity dynamics in Chinese children and adults
Penny Gordon-Larsen, University of North Carolina, Chapel Hill, USA

The emergence of cardiometabolic disease risk in Chinese children and adults: Consequences of changing patterns of diet, physical activity, and obesity
Linda Adair, University of North Carolina, Chapel Hill, NC, USA

Synthesis and implications: China's nutrition transition in context of the changes across Asia, Africa, Latin America, and the Middle East
Barry Popkin, University of North Carolina Chapel Hill, NC, USA

(Albeniz)
11.30 – 13.30h | Parallel Symposium

PS2-23B
T7 – 7.3

A global partnership to improve nutrition medicine in Vietnam, The AFINS Partnership: An overview

Chairs: Carine Lenders, Boston University School of Medicine, Boston, USA
Elizabeth Henry, Boston University School of Medicine, Boston, USA

Research in clinical nutrition
Nguyen Thi Lam, National Institute of Nutrition, Hanoi, Vietnam
Thomas Ziegler, Emory University, Atlanta, USA

Hospital-based initiatives to improve nutrition medicine
Dinh Thi Kim Lien, Bach Mai Hospital, Hanoi, Vietnam
Lorraine Young, Boston Medical Center, Boston, USA

Designing a dietician education program
Huong Cong Chanh, Hanoi Medical University, Vietnam
Roberta Durschlag, College of Health and Rehabilitation Sciences: Sargent College, Boston University, Boston, USA

Panel Discussion
Representatives from the Abbott Fund Institute for Nutrition Science
(AFINS) Project, USA and Vietnam

14.30-16.00 | Oral Communications

T7

Chairs: Jordi Salas-Salvado, Rovira i Virgili University, CIBERobn, Spain
Marcela Gonzalez-Gross, Polytechnic University of Madrid, Madrid, Spain

- O114 SOCIAL REPRESENTATION OF OBESITY IN A RURAL COMMUNITY OF MEXICO
T. Ochoa, Health Department, Iberoamerican University, Mexico
- O115 MAJOR DIETARY PATTERNS OF IRANIAN WOMEN AND THEIR RELATION WITH ETHNICITY AND DURATION OF RESIDENCE IN THE CAPITAL CITY (TEHRAN)
A. Rezazadeh, Community Nutrition Department, Faculty of Nutrition and Food Technology, Shahid Beheshti University of Medical Sciences and Health Services, Tehran, Iran
- O116 CONTRIBUTION OF SORGHUM TO ENERGY, IRON AND ZINC INTAKES OF MOTHERS AND PRESCHOOL CHILDREN IN RURAL BURKINA FASO
Y. Martin-Prevel, Institut de Recherche pour le Developpement (IRD) - UMR204 Nutripass IRD,UM2,UM1, France
- O117 HYDRATION STATUS AND ITS RISK FACTORS AMONG INDONESIAN ADOLESCENTS AND ADULTS
H. Hardinsyah, Food and Nutrition Society of Indonesia; and Department of Community Nutrition, Bogor Agricultural University, Kampus IPB, Jl Raya Darmaga, Bogor, Indonesia
- O118 SODIUM AND NUTRIENT DENSITY OF SOME TRADITIONAL DISHES AS CONSUMED IN NIGERIAN URBAN POPULATION IN RELATION TO CARDIOVASCULAR DISEASE (CVD)
E A. Udentia, University Of Nigeria, Nsukka, Nigeria
- O119 IDENTIFICATION OF TRADITIONAL FOOD RESOURCES AND THEIR IMPORTANCE IN A RURAL FARMING COMMUNITY IN SOUTHWESTERN NIGERIA
S I. Ejoh, Department of Human Nutrition, Faculty of Public Health, College of Medicine, University of Ibadan, Nigeria
- O120 ECONOMIC INEQUALITY AND OBESITY: MULTILEVEL ANALYSIS OF INDONESIAN COMMUNITIES
K. Sari, The Center for Public Health Intervention Technology, The National Institute of Health Research and Development, Indonesian Ministry of Health, Central Jakarta, Indonesia
- O121 INADEQUATE ENERGY AND PROTEIN INTAKES HAVE CONTRIBUTED TO THE HIGH PREVALENCE OF STUNTING IN INDONESIAN YOUNG CHILDREN
H. Hadi, Department of Public Health, Faculty of Medicine, University of Gadjah Mada, Jl. Farmako, Sekip Utara, Yogyakarta, Indonesia

16.00-16.30 | Special Lecture

T7

Chair: Rekia Belahsen, Chouaib Doukkali University, El Jadida, Morocco

What would it take to ensure optimal growth among children in Africa
Anna Lartey, University of Ghana, Legon, Ghana

Room D
08.00 – 10.00 | Parallel Symposium

PS2-16
T8 – 8.2

IUNS Task Force
Food composition (FAO)

Chairs: Ruth Charrondiere, FAO, Rome, Italy
Suzanne Murphy, University of Hawaii, Honolulu, USA

Impact of food composition data on nutrient intakes, requirement, programmes and policies
Suzanne Murphy, University of Hawaii, Honolulu, USA

The role of food composition data for nutrition labelling
Janice Albert, FAO, Rome, Italy

The correct use of food composition data
Deborah Bastos, São Paulo University, São Paulo, Brazil

The need of new high-quality analytical data on food composition in general and specifically for biodiversity and wild and underutilized foods
T. Longvah, Head Food Chemistry Division, Hyderabad, India

Link between food composition, nutrition, agriculture and better food supply to combat malnutrition through food-based approaches
Ruth Charrondiere, FAO, Rome, Italy

11.30 – 13.30 | Parallel Symposium

PS2-24
T8 – 8.2

Sugars and health – the controversies continue (EUFIC)

Chairs: Wim H.M. Saris, Maastricht University and Corporate scientist Human Nutrition, DSM Inc. The Netherlands

Sweetness, hedonic impact and food intake
Graham Finlayson, Institute of Psychological Sciences, University of Leeds, Leeds, UK

Effects of sugars on metabolic health
Luc Tappy, University of Lausanne, Lausanne, Switzerland

Sugars to deal with fatigue during exhausting endurance performance
Fred Brouns, Maastricht University, Maastricht, The Netherlands

14.30-16.00 | Oral Communications

T8

Chairs: Godwin Ndossi, Tanzania National Health Research Forum, Tanzania
Begoña Olmedilla, Institute of Food and Technology and Nutrition (ICTAN), Spanish National Research Council (CSIC), Madrid, Spain

- O122 CONFLICTING INDICATORS OF FOOD INSECURITY FROM A PILOT STUDY OF WATER, SANITATION, HYGIENE AND NUTRITION INTERVENTIONS IN RURAL WESTERN KENYA
A. Williams, Program in International and Community Nutrition, University of California, Davis, CA, USA
- O123 AVAILABILITY OF NUTRITION SERVICES IN MATERNAL, NEONATAL AND CHILD HEALTH (MNCH) FACILITIES IN BANGLADESH
M. Mridha, International Center for Diarrheal Disease Research, Bangladesh

- O124 COMBATING VITAMIN A DEFICIENCY DISEASES: BUILDING THE EVIDENCE BASE AND PARTNERSHIPS FOR FOOD BASED APPROACHES
J. Low, Regional Office for Sub-Saharan Africa, International Potato Center, Nairobi, Kenya
- O125 DELIVERY OF MICRONUTRIENT POWDER SACHETS THROUGH SALES BY FRONTLINE HEALTH WORKERS ENABLES HIGH REACH, BUT HOUSEHOLD POVERTY CONSTRAINS UPTAKE
R. Rawat, International Food Policy Research Institute (IFPRI), Washington, DC, USA
- O126 UPDATED NUTRIENT DATA ON DANISH BEEF AND VEAL
U. Kehlet, Danish Meat Research Institute, Denmark
- O127 CHARACTERIZATION OF OATS SAFETY IN CELIAC DISEASE IN RELATION TO THE CULTIVAR
M. Silano, Unit of Human Nutrition and Health, Istituto Superiore Di Sanità, Rome, Italy
- O128 HOUSEHOLD WATER ACCESS AND SANITATION AS INDICATORS OF VITAMIN A AND ZINC EFFICACY ON GUT PARASITE RESOLUTION
K. Long, School of Population Health, University of Queensland, Australia
- O129 DETERMINATION OF TOTAL PHENOLICS, ANTHOCYANINS AND ANTIOXIDANT ACTIVITY OF AN ALGERIAN DATE FRUIT VARIETY (Deglet -Nour)
Z. Kheira, Department of Biology, Benific microorganisms, functional food and health laboratory (BMFFHL), University of Mostaganem University

16.00-16.30 | Special Lecture

T8

Chair: Stefaan de Henauw, Ghent University, Ghent, Belgium

Sustainable diets: how nutrition can save the planet

Barbara Burlingame, Food and Nutrition Division, FAO, Rome, Italy

Wednesday, September 18th

Andalucia Rooms

08.00 – 10.30 | Parallel Symposium

PS3-25
T1 -1.1

New biomarkers for health claims made on food

Chairs: M^a Luisa Bonet Piña, University of the Balearic Islands, Balearic Islands, Spain
Lluís Arola, CTNS, Universitat Rovira I Virgili, Tarragona, Spain

Biomarkers of benefit for health claims made on food: this is the challenge
Andreu Palou, University of the Balearic Islands (UIB) and CIBERObn, Spain

Biomarkers of healthy phenotype
Ben Van Omen, TNO Quality of Life (TNO), Zeist, The Netherlands

Stress challenges as tools for biomarker identification
Susanne Klaus, German Inst. of Human Nutrition (DIfE), Nuthetal, Germany & Evert van Schothorst, Wageningen University, The Netherlands

Peripheral Blood Cells as source of biomarkers
Paula Oliver & Catalina Pico, University of the Balearic Island (UIB) and CIBERObn, Spain

Reading the patterns of endogenous damage to the proteins as new biomarkers
Paul Thornalley & Naila Rabani, Warwick Medical School and Systems Biology Centre, University of Warwick (UWA), Coventry, UK

The carnitine family as biomarkers of metabolic health in the intervention studies using omega 3 and TZDs
Jan Kopecky, Institute of Physiology, Academy of Sciences of the Czech Republic (ASCR), Prague, Czech Republic

The challenge of validating biomarkers in humans: the BIOCLAIMS approach

Brigitte Winklhofer-Roob & Johannes Roob, Human Nutrition & Metabolism Research and Training Center, Institute of Molecular Biosciences, Karl Franzens University of Graz (UNIGraz) & Division of Clinical Nephrology, Department of Internal Medicine, Medical University of Graz (MUG), Graz, Austria

Biomarkers of Inflammation

Philip C. Calder, Institute of Human Nutrition, School of Medicine, University of Southampton (USoton), UK

11.30 – 13.30 | Parallel Symposium

PS3-33
T1 – 1.4

IUNS Task Force OMICS technologies with nutritional perspectives

Chairs: Ben van Ommen, TNO, Zeist, The Netherlands

J. Alfredo Martinez, University of Navarra, Pamplona, Spain

Nutrigenetics & nutrigenomics: The scope of a new discipline

Raffaele De Caterina, Università G de Annunzio, Chieti, Italy

Nutrieptigenomics and obesity

J. Alfredo Martinez, University of Navarra, Pamplona, Spain

Metabolomics and nutritional applications

Lorraine Brennan, UCD Institute of Food and Health, UCD Dublin, Ireland

Network biology and systems biology applications in nutrition

Marijana Radonjic, TNO, Zeist, The Netherlands

14.30 – 16.30 | Debate

T1

Personalized versus public health nutrition

Personalized Nutrition: Jose Ordovas, University of Tufts, Boston, USA

Public health nutrition: Agneta Ingve, Örebro University, Örebro, Sweden

16.00 – 16.30 | Special Lecture

T1

Chair: Reynaldo Martorell, Emory University, Atlanta, USA

Early Nutrition and non-communicable diseases in countries of the Middle-East

Nahla Houalla, Dean of the Faculty of Agriculture, American University of Beirut, Beirut, Lebanon

Machado and Picasso Rooms 08.00 – 10.00 | Parallel Symposium

PS3-26
T2 – 2.2

Scaling up nutrition to improve infant and young child feeding (IYCF) (Alive & Thrive)

Chairs: Ellen Piwoz, Bill & Melinda Gates Foundation, Washington, DC, USA

Cristina Campoy, University of Granada, Granada, Spain

Factors contributing to dramatic increases in exclusive breastfeeding in Bangladesh

Tina G. Sanghvi, Alive & Thrive, Washington, DC, USA

Motivating frontline workers to deliver improved infant and young child nutrition services: A cross-country perspective

Purnima Menon, International Food Policy Research Institute, New Delhi, India

Alternatives to randomized control designs: Evaluation of a mass media campaign where television is universal, lessons from Vietnam
Silvia Alayon, Alive & Thrive, Save the Children, Washington, DC, USA

Evidence linking handwashing to improved child feeding outcomes
Leanne Unicomb, International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh

(Machado)

11:30-13:30 | Parallel Symposium

PS3-34A
T2 – 2.5

Nutrients and exercise performance – What is the evidence behind recent claims of major benefits?

*Chairs: Ian A. Macdonald, University of Nottingham, Nottingham, UK
Francis Stephens, University of Nottingham, Nottingham, UK*

Distinct roles for the effects of L-carnitine supplementation on exercise performance and reducing body fat

Francis Stephens, University of Nottingham, Nottingham, UK

Does protein supplementation increase muscle mass and strength?

Luc van Loon, University of Maastricht, Maastricht, The Netherlands

Mechanisms behind the effects of dietary nitrate supplementation on performance

Jon Lundberg, Karolinska Institutet, Solna, Sweden

Is there a role for antioxidants in improving exercise performance?

Jose Calbet, University of Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain

(Picasso)

11.30 – 13.30 | Parallel Symposium

PS3-34B
T2 – 2.2

Past and current experiences in leveraging multiple program and partner platforms to scale-up nutrition interventions (The SPRING project)

Chair: Rebecca Egan, Nutrition Technical Advisor, Office of Health, Infectious Diseases and Nutrition, United States Agency for International Development (USAID), Washington, DC, USA

Learning from past successes in scaling up integrated nutrition programs to inform future efforts: design and delivery considerations

Christian Winger, Strengthening Partnerships, Results and Innovations in Nutrition Globally (SPRING), USA

Using lessons learned from earlier nutrition efforts in Nepal to design a multi-platform national scale integrated nutrition project

Pooja Pandey Rana, Suaahara Program, Helen Keller International, Lalitpur, Nepal

Scaling-up nutrition using synergy between health and agriculture platforms Bangladesh.

Yasir Arafat, Strengthening Partnerships, Results and Innovations in Nutrition Globally (SPRING) Project, Dhaka, Bangladesh

Building capacity across multiple systems to enhance nutrition outcomes: The ENGINE Project's approach to capacity building in Ethiopia.

Habtamu Fekadu, Empowering New Generations in Improved Nutrition and Economic Opportunities (ENGINE), Ethiopia

14.30 – 16.00 | Debate

T2

The best dietary approach to achieve weight loss and weight maintenance

Chair: Richard Atkinson, Editor, *International Journal of Obesity*, Virginia Commonwealth University, Obetech Obesity Research Center, Richmond, USA

Role of Protein and Glycaemic Index

Arne Astrup, University of Copenhagen, Copenhagen, Denmark

Role of Intermittent Fasting/Low energy diet combined with normal eating

Alex Johnstone, University of Aberdeen, Aberdeen, UK

16.00 – 16.30 | Special Lecture

T2

Chair: Mauro Fisberg, Department of Pediatrics, Escola Paulista de Medicina, Federal University of Sao Paulo, UNIFESP, Sao Paulo, Brazil

Genetic engineering/biotechnology and its relevance to pediatric nutrition

Ronald E. Kleinman, Mass General Hospital for Children Chair, Department of Pediatrics Massachusetts General Hospital Charles Wilder Professor of Pediatrics Harvard Medical School

Falla Auditorium

08.00 – 10.00 | Parallel Symposium

PS3-27
T3 – 3.6**Community-based programme to prevent obesity: Lessons and perspectives from 20 years of experience (EPODE International Network)**

Chairs: Gregorio Varela, University CEU San Pablo, Madrid, Spain

Susan Jebb, Medical Research Council Human Nutrition unit (HNR), Cambridge, UK

Effect of vitamin B12 and n-3 polyunsaturated fatty acids on plasma homocysteine, and other cardiovascular risk factors: A randomized controlled trial

Terry Huang, University of Nebraska Medical Center College of Public Health, Nebraska, USA

How would be defined a Community-Based Programme in 2013?

Boyd Swinburn, The University of Auckland, Auckland, New Zealand

What would be the evaluation framework of a Community-Based Programme in 2013?

Jaap Seidell, VU University of Amsterdam, Amsterdam, The Netherlands

Community-based programmes to prevent obesity

Jean-Michel Borys, EPODE International Network, Brussels, Belgium

EPODE International Network: the world's largest obesity prevention network

Armando Barriguette, EPODE International Network, Brussels, Belgium

11.30 – 13.30 | Parallel Symposium

PS3-35
T3 – 3.6**Promoting healthy growth and preventing childhood stunting (WHO)**

Chair: Francesco Branca, World Health Organization, Geneva, Switzerland

Promoting healthy growth and preventing childhood stunting – a WHO initiative

Adelheid Onyango, World Health Organization, Geneva, Switzerland

Promising interventions and research areas in complementary feeding and healthy growth promotion

Kim Michaelsen, University of Copenhagen, Copenhagen, Denmark

Monitoring Child Growth and Infant and Young Child Feeding practices
Mercedes de Onis, World Health Organization, Geneva, Switzerland

14.30 – 16.30 | Panel discussion

T3

Dietary sugars: controversies on relevant scientific findings and health implications

Chairs: Benjamin Caballero, International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, USA

Luis Moreno, University of Zaragoza, Zaragoza, Spain

Epidemiology of sweetener use and their health effects

Frank Hu, Department of Nutrition, Harvard School of Public Health, Harvard University, Boston, USA

Effects of fructose on cardiometabolic risk factors

John Sievenpiper, Clinical Nutrition and Risk Factor Modification Centre, St. Michael's Hospital, Toronto, Canada

Sugar sweetened beverages consumption and body weight

David Allison, Nutrition & Obesity Research Center, University of Alabama, Birmingham, USA

Lorca Auditorium

08.00 – 10.00 | Parallel Symposium

**PS3-28
T4 – 4.1**

Role of dietary macronutrients on weight management. Role of protein and glycemic index in body weight regulation – Lessons from the Diogenes intervention study

Chairs: Arne Astrup, Department of Nutrition, Exercise and Sports (NEXS), Faculty of Science, University of Copenhagen, Copenhagen, Denmark

Wim Saris, Maastrich University Medical Center, Maastrich, The Netherlands

The use of an ad libitum higher-protein, low-glycemic index diet in overweight children: the Diogenes Study

Arne Astrup, Department of Nutrition, Exercise and Sports (NEXS), Faculty of Science, University of Copenhagen, Copenhagen, Denmark

Benefits and mechanism of moderately high protein and high fiber diets in body weight loss and maintenance

J. Alfredo Martinez, University of Navarra, Pamplona, Spain

Comparison of intervention and COHORT study of dietary protein in body weight regulation. Reconciling opposing evidence

Mikkel Zöllner Ankarfeld, Institute of Preventive Medicine, Frederiksberg, Denmark

Can we predict weight loss and maintenance success using the genomics/metabolomics technologies: The Diogenes study

Wim H.M. Saris, Maastrich University Medical Center, Maastrich, The Netherlands

10.30 – 11.30 | Plenary Lecture

Chair: Andreu Palou, University of the Balearic Islands & CIBERObn

(Ciber de Fisiopatologia de la Obesidad y Nutricion), Palma de Mallorca, Spain

New powers of brown fat: fighting the metabolic syndrome

Jan Nedergaard, The Wenner-Gren Institute, Stockholm University, Stockholm, Sweden

11.30 – 13.30 | Parallel Symposium

**PS3-36
T4 – 4.1**

ISCOLE: International Study of Childhood Obesity, Lifestyle and the Environment

*Chairs: Peter T. Katzmarzyk, Pennington Biomedical Research Center, Baton Rouge, USA
Amelia Marti, University of Navarra, Pamplona, Spain*

Introduction and background, rationale and study design of ISCOLE
Peter T. Katzmarzyk, Pennington Biomedical Research Center, Baton Rouge, USA

ISCOLE – Portugal: Preliminary data analysis linking weight status and the environment
Jose Maia, Faculdade de Desporto University of Porto, Porto, Portugal

The international study of childhood obesity, lifestyle and the environment: Preliminary results from Kenya
Vincent Onywera, Kenyatta University, Nairobi, Kenya

International study of childhood obesity, lifestyle and the environment (ISCOLE): Methods and preliminary results from Colombia
Olga L. Sarmiento, University of los Andes, Bogota, Colombia

14.30 – 16.30 | IUNS Living Legends and Nevin Scrimshaw Tribute Session. DSM AWARD 2013

Chair: Ibrahim Elmadfa, University of Vienna, Vienna, Austria

A personal view of Nutrition in Spain
Salvador Zamora, Emeritus Professor, University of Murcia, Murcia, Spain

A personal view of the nutrition situation in Europe
Claus Leitzman, Emeritus Professor Institute for the Science of Nutrition, Justus-Liebig-Universität of Giessen, Giessen, Germany

Audiovisual presentation of selected Nutrition living legends from IUNS adhering bodies

IUNS Remembers Nevin Scrimshaw

*Chairs: Lindsay Allen, Vice-President of IUNS
Anna Lartey, University of Ghana, Legon, Ghana*

Opening remarks

Nevin Scrimshaw and IUNS
Ibrahim Elmadfa, President of IUNS

Nevin Scrimshaw and NS-INF
Ricardo Uauy, University of Chile, Santiago, Chile

Thailand/Asia remembers Nevin
Emorn Wasantwisut, Institute of Nutrition, Mahidol University, Bangkok, Thailand

Africa Nutrition Society and the Nevin Scrimshaw award
Anna Lartey, Elected President of IUNS

INCAP/PAHO remembers Nevin
*Carolina Siu, INCAP's director
Manuel Ramirez-Zea, General Coordinator CIIPEC, Instituto de Nutricion de Centro America y Panama (INCAP)*

Closing remarks

Room B
08.00 – 10.00 | Parallel Symposium

PS3-29
T5 – 5.4

Vitamin A supplementation for children 6-59 months of age: revisiting program strategies and priorities

*Chairs: Shawn K. Baker, Helen Keller International, Dakar-Yoff, Senegal
Begoña Olmedilla, Institute of Food and Technology and Nutrition (ICTAN), Spanish National Research Council (CSIC), Madrid, Spain*

*Introduction: Continuing relevance of VAS and contributions to reducing U5M
Shawn K. Baker, Helen Keller International, Dakar-Yoff, Senegal*

*Vitamin A Supplementation Programs – Revisiting the Strategy: Current priorities of global VAS strategies including building national ownership
Nita Krakania, UNICEF, New York, NY, USA*

Program Implementation examples:

*Monitoring for equity: Use of monitoring data and post event assessments to inform programme strategy and ensure equity:
Jessica Blankenship, Helen Keller International - Sub-Regional Office for East and Southern Africa, ILRI Campus, Uthiru, Nairobi, Kenya*

*Delivering vitamin A supplementation at 6-months of age: An opportunity to improve child survival
Roland Kupta, Nutrition Unit, Child Survival and Development Section, UNICEF Regional Office for West and Central Africa, Dakar, Senegal*

*Mobilizing religious leadership to increase coverage of VAS in Tanzania
Temina Mkumbwa, Nutrition Program Officer, Helen Keller International, Helen Keller International Tanzania, Dar es Salaam, United Republic of Tanzania*

*Integration of VAS into the Health System
Alison Greig, Senior Technical Advisor - Child Survival, Micronutrient Initiative, Ottawa, Ontario, Canada*

*Evidence base to inform countries when phase-out of VAS may be appropriate
Lynette Neufeld, Micronutrient Initiative, Ottawa, Ontario, Canada*

11.30 – 13.30 | Parallel Symposium

PS3-37
T5 – 5.4

Findings from 5 birth cohorts from developing countries: The COHORTS collaboration

*Chairs: Linda Richter, University of Witwatersrand, Johannesburg, South Africa
Mari Nieves García, Instituto Venezolano de Investigaciones Científicas (IVIC), Venezuela*

*History of the COHORTS collaboration and methodological considerations
Caroline Fall, University of Southampton, Southampton, UK*

*Growth from birth to adulthood in five low- and middle-income countries – COHORTS
Aryeh Stein, Emory University, Atlanta, USA*

*Intergenerational effects on growth
Reynaldo Martorell, Emory University, Atlanta, USA*

Long term effects of linear growth vs. weight gain on adult human capital and health
Linda Adair, University of North Carolina North Carolina, Chapel Hill, USA

Lessons learned from COHORTS and the post 2015 Global Agenda
Cesar Victora, Federal University of Pelotas, Pelotas, Brazil
Reynaldo Martorell (presenting), Emory University, Atlanta, USA

16.00-16.30 | Special Lecture

T5

Chair: Angel Gil, University of Granada, Granada, Spain

Regulation of protein synthesis in skeletal muscle by leucine during the neonatal period

Teresa Davis, Baylor College of Medicine, U.S. Department of Agriculture / Agricultural Research Service, Children's Nutrition Research Center at Baylor College of Medicine, Houston, USA

Room C

08.00 – 10.00 | Parallel Symposium

**PS3-30
T6 – 6.1**

Fibres and the gut immune system (FIBEBIOTICS Project)

Chairs: Jurriaan Mes, FBR-WUR, Wageningen, The Netherlands

Fermin Sanchez de Medina, Department of Pharmacology, University of Granada, Granada, Spain

Fibres and the gut immune system (EU Fibeiotics Project)

Jurriaan Mes, FBR-WUR, Wageningen, The Netherlands

Determination of beta-glucans in food and samples from in vitro systems

Svein Knutsen, NOFIMA, Tromsø, Norway

Development of integrated in vitro gut model platforms to study fiber fermentation and gut immune effects

Sam Possemiers, Prodigest, Ghent, Belgium

Microbial Exopolysaccharide production and Functional Food Applications

Catherine Stanton, Teagasc, Cork, Ireland

11.30 – 13.30 | Parallel Symposium

**PS3-38
T6 – 6.2**

HEALTHGRAIN Forum Symposium - Cereal foods and health - New results and science based nutrition guidelines

Chairs: Kaisa Poutanen, University of Eastern, Joensuu, Finland

Gabriele Riccardi, Federico II University, Naples, Italy

General introduction – cereal foods and components in our daily diets and their importance for health
Gabriele Riccardi, Federico II University, Naples, Italy

Whole grain and fibre intake and colorectal cancer; new results from the HELGA and EPIC cohorts
Anja Olsen, Institute of Cancer Epidemiology, Danish Cancer Society Research Centre, Copenhagen, Denmark

Health benefits of whole grain wheat: intervention study clarifying underlying mechanisms and the role of polyphenols bound to dietary fibre

Paola Vitaglione, Department of Agricultural and Food Science, University of Naples, Naples, Italy

Whole grain wheat intake – impact on weight loss, body composition and cardiometabolic factors – results from intervention studies

Penny M. Kris-Etherton, Department of Nutritional Sciences, The Pennsylvania State University, University Park, USA

Global dietary whole grain recommendations: a harmonised or multifarious message?
Chris Seal, Newcastle University, Newcastle upon Tyne, Newcastle, UK

Concluding remarks followed by plenary discussion
Kaisa Poutanen, VTT and University of Eastern Finland, Joensuu, Finland

16.00-16.30 | Special Lecture

T6

*Chair: Francisco Perez- Jimenez, Professor of Internal Medicine,
Scientific Director of IMIBIC, University of Cordoba, Cordoba, Spain*

Why alpha-linolenic acid (ALA) is essential: New research on plant based sources
*Penny M. Kris-Etherton, Department of Nutritional Sciences, The Pennsylvania State University,
University Park, USA*

Machuca and Albeniz Room (Machuca)

08.00 – 10.00 | Parallel Symposium

**PS3-31A
T7 –7.3**

Building research capacity in Latin America to address NCDs and obesity

*Chairs: Michael Pratt, Emory University, Atlanta, USA
Eduardo Atalah Samur, University of Chile, Santiago, Chile*

The challenge of building nutrition research capacity in Ibero-America: The FINUT experience
Angel Gil, University of Granada, Granada, Spain

Leveraging partnerships and networks to create courses, joint projects and academic exchanges for increasing physical activity research capacity in the Americas
Michael Pratt, Emory University, Atlanta, USA

Identifying and closing a gap: Physical activity and nutrition behavior change research
Olga Lucia Sarmiento and Silvia Gonzalez, los Andes University, Bogota, Colombia

Creating a center of excellence for NCD research in Latin America
Jaime Miranda, Peruvian University Cayetano Heredia, Lima, Peru

(Albeniz)

08.00 – 10.00 | Parallel Symposium

**PS3-31B
T7 – 7.6**

IUNS Task Force Traditional, indigenous and cultural food and nutrition

*Chairs: Harriet V. Kuhnlein, McGill University, Montreal, Canada
Rekia Belahsen, Chouaib Doukkali University, El Jadida, Morocco*

Traditional Mediterranean diet with North African perspective
Rekia Belahsen, Chouaib Doukkali University, El Jadida, Morocco

Resilience to the compounding effects of climate change on the nutrition transitions experienced by the Yellowknives Dene First Nation
Chief Bill Erasmus, Dene Nation and Assembly of First Nations, Yellowknife, Canada and Gail Harrison, University of California at Los Angeles, Los Angeles, USA

From micro to macro policies: why micro-level differences matter in the fight to preserve access to traditional, indigenous foods
Gretel H. Peltz, Cornell University, Ithaca, USA

Biodiversity, food systems and nutritional status of the Indigenous People of Northeast India
T. Longvah, National Institute of Nutrition, Hyderabad, India

Traditional cultivation and use of maguey and cactus pear in the Upper Mezquital Valley of Mexico:
 Relevance for sustainable livelihoods
Maria Daniela Nuñez Burbano de Lara, University of Hohenheim, Germany

(Machuca)
11.30 – 13.30 | Parallel Symposium

PS3-39A
T7 – 7.6

ENLP - Nutrition during times of economic crisis, let's cook something up!

Chairs: Roosmarijn Verstraeten, Ghent University, Ghent, Belgium
Christophe Matthys, KU Leuven/UZ Leuven, Leuven, Belgium

A challenge for public health nutrition in a time of austerity
Martin Caraher, Centre for Food Policy at City University, London, UK

Nutrition (How do we ensure nutritious foods?) During the economic crisis
Karl Raats, Speaker, trainer and facilitator in applied creative thinking, Karlraats.Com Buba, Kappelen, Belgium

(Albeniz)
11.30 – 13.30 | Parallel Symposium

PS3-39B
T7 – 7.6

IUNS Task Force
Capacity development in innovative techniques in food and nutrition research

Chairs: Ibrahim Elmadfa, University of Vienna, Vienna, Austria
Angel Gil, University of Granada, Granada, Spain

Diet quality, determinants and methods of assessment
Ibrahim Elmadfa, University of Vienna, Vienna, Austria

Gut microbiota, tools for analyzing immune functions
Angel Gil, University of Granada, Granada, Spain

Metrology based measurements in food and nutrition sciences
V. Iyengar, Biomineral Sciences, FSNSP Tufts University, Rockville, USA

Isotope technique tools for better accuracy of analytical procedures
Anura V Kurpad, St John's Medical College, Bangalore, India

Building research capacity in nutrition in the Middle East and North Africa: The challenge for MENANA
Sidiga Washi, United Arab Emirates University, Al Ain, UAE

14.30 – 16.30 | Debate

T7

Timing to introducing complementary foods into the infant diet

Chair: Berthold Koletzko, University of Munich, Munich, Germany

Complementary foods should not be introduced to infants before the age of 6 months
Noel W. Solomons, Center for Studies of Sensory Impairment, Aging and Nutrition, Guatemala

Complementary foods should be introduced to infants between the ages of 4 to 6 months
Nancy F. Krebs, University of Colorado School of Medicine, USA

16.00-16.30 | Special Lecture

T7

Chair: Furio Brighenti, University of Parma, Parma, Italy

Bioactive foods and ingredients for health

Connie Weaver, Department of Nutrition Science (NUTR), Purdue University, West Lafayette, USA

Room D

08.00 – 10.00 | Parallel Symposium

PS3-32
T8 – 8.3

Low-calorie sweeteners: Are they safe and can they help with weight management?

Chairs: John Sievenpiper, Clinical Nutrition and Risk Factor Modification Centre St. Michael's Hospital, Toronto, Canada
Arturo Anadon, Complutense University of Madrid, Spain

Why did we evolve a taste for sweetness and can we live without it?

Marion Hetherington, Institute of Psychological Sciences, University of Leeds, Leeds, UK

Dietary habits and the use of LCS: An effective tool in the prevention of obesity and diabetes

Adam Drewnowski, University of Washington, Seattle, Washington, USA

Low calorie sweeteners: Should the public be concerned still?

Andrew Renwick, University of Southampton, Southampton, UK

11.30 – 13.30 | Parallel Symposium

PS3-40
T8 – 8.3

FESNAD forum: Nutrition claims

Chairs: Rosaura Farre Rovira, University of Valencia, Valencia, Spain
Jordi Salas-Salvado, Human Nutrition Unit, University Hospital of Sant Joan, Rovira I Virgili University, Reus, Spain

Nutrition and Health Claims: Different Aspects

Rosaura Farre Rovira, University of Valencia, Valencia, Spain

How important are health claims in infant nutrition?

Jose Manuel Moreno Villares, Hospital Universitario 12 de Octubre, Madrid, Spain

Claims related to functional foods in the cardiovascular area

Jordi Salas-Salvado, Human Nutrition Unit, University Hospital of Sant Joan, Rovira I Virgili University, Reus, Spain

Communication on food and nutrition in hospital

M^a Lourdes de Torres Aured, Hospital Universitario Miguel Servet, Zaragoza, Spain

Health claims. More severe than the European Food Safety Authority (EFSA): To be or not to be?

Eduard Baladia, Spanish Foundation of Dietitians & Nutritionists, Pamplona, Spain

Health claims in meat based functional foods

Francisco Jimenez- Colmenero, Spanish National Research Council (CSIC), Madrid, Spain

Introduction of functional foods in the diet of school canteen. Towards a nutritional fortification of our students

Manuel Espinoza Montenegro, Latin American School Feeding Network

16.00 - 16.30 | Special Lecture

T8

Chair: Lluís Serra-Majem, University of Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain

Agrinutrition. Where are we going?

Alan Dangour, London School of Hygiene & Tropical Medicine, London, UK

Thursday, September 19th

Andalucia Rooms

08.00 – 10.00 | Parallel Symposium

PS4-41
T1 – 1.1

Public health genomics in individualized nutrition

Chairs: Fermin Milagro, Department of Nutrition, Food Science and Physiology, University of Navarra, Pamplona, Spain

Helmut Brand, Department of International Health, Maastricht University, Maastricht, The Netherlands

Public health genomics in nutritional sciences

Angela Brand, Maastricht University, Maastricht, The Netherlands

Epigenetic mechanisms of bioactive food components in cancer prevention

Barbara Stefanska, McGill University, Montreal, Quebec, Canada

Integration of genetic and epigenetic information in cancer

Nuria Malats, Spanish National Cancer Research Centre (CNIO), Madrid, Spain

Let's implement public health genomics and personalized nutrition

Ben van Ommen, TNO, Zeist, The Netherlands

Genetic, epigenetic and nutritional interactions in neurological disorders

Borut Peterlin, University Medical Center Ljubljana, Ljubljana, Slovenia

Genomics, microbiomics and epigenomics in metabolic syndrome, a case study in Public Health Genomics

Alexander G. Haslberger, University of Vienna, Austria

11.30 – 13.30 | Parallel Symposium

PS4-49
T1 – 1.4

Biomarkers of response to dietary interventions

Chairs: Philip C. Calder, University of Southampton, Southampton, UK

Ricardo Rueda, Abbot Laboratories, Spain

Advanced imaging techniques to study brain development in nutritional interventions

Stephane V. Sizonenko, Children's Hospital, Department of Child and Adolescent Medicine, Geneva, Switzerland

Applying structural magnetic resonance brain imaging in nutrition studies

Kristine B. Walhovd, University of Oslo, Oslo, Norway

A consideration of biomarkers to be used for evaluation of inflammation in human nutritional studies

Philip C. Calder, University of Southampton, Southampton, UK

New metabolomic strategies in clinical nutrition research: from diet to revealing disease risk biomarkers
Cristina Andres-Lacueva, University of Barcelona, Barcelona, Spain

14.30-16.00 | Oral Communications

T1

*Chairs: Jose Luis Santos, Pontificia Catholic University of Chile, Santiago, Chile
Concepcion M. Aguilera, University of Granada, Granada, Spain*

- O130 LONG-TERM HEALTH CONSEQUENCES OF EARLY-LIFE STARVATION: EVIDENCE FROM FAMINE-BORN COHORTS IN UKRAINE
A. Vaiserman, Laboratory of Epigenetics, Institute of Gerontology, Kiev, Ukraine
- O132 CHANGES IN IRON METABOLISM, HAEMATOLOGICAL AND INFLAMMATORY PARAMETERS OF DIABETIC RATS TREATED WITH VANADIUM AS AN ANTIDIABETIC AGENT
C. Lopez-Chaves, Department of Physiology, University of Granada, Granada, Spain
- O133 PUFA AND OXIDATIVE STRESS. FROM CYTOTOXIC EFFECT TOWARD ANTIOXIDANT DEFENCES
M. Di Nunzio, Interdepartmental Centre for Industrial Agri-Food Research, University of Bologna, Cesena, Italy
- O134 DIETARY COFFEE POLYPHENOLS DON'T ATTENUATE FEATURES OF THE METABOLIC SYNDROME AND ENDOTHELIAL DYSFUNCTION IN MICE FED A HIGH-FAT DIET
N. Ward, School of Medicine & Pharmacology, University Of Western Australia, Perth, WA, Australia
- O135 THE INFLUENCE OF BLOOD SELENIUM STATUS AND SELENOPROTEIN GENE VARIATION ON COLORECTAL CANCER RISK
D. Hughes, Department of Physiology & Medical Physics & Centre for Systems Medicine, Royal College of Surgeons in Ireland, Dublin, Ireland
- O136 RELATIONSHIP BETWEEN METHIONINE METABOLISM PATHWAY GENES WITH PLASMA HOMOCYSTEINE AND RISK OF TYPE 2 DIABETES IN CHINESE
T. Huang, Zhejiang University, Hangzhou, China
- O137 IMPACT OF BREAST-FEEDING COMPARED TO FORMULA-FEEDING ON BLOOD-CELL TRANSCRIPT-BASED POTENTIAL BIOMARKERS OF HEALTH IN CHILDREN
J. Sanchez, Laboratory of Molecular Biology, Nutrition and Biotechnology (Nutrigenomics), University of the Balearic Islands (UIB) and CIBER Fisiopatologia de la Obesidad y Nutricion (CIBERObn), Palma de Mallorca, Spain

16.00-16.30 | Special Lecture

T1

Chair: Concepcion M. Aguilera, University of Granada, Granada, Spain

Brite versus brown and white adipose tissues: functional and molecular differences
Barbara Cannon, Stockholm University, Stockholm, Sweden

**Machado and Picasso Rooms
(Machado)
08.00 – 10.00**

PS4-42A
T2 – 2.5

Complementary feeding and infant health (FAO Project)

*Chairs: Anna Lartey, University of Ghana, Legon, Ghana
Michael Krawinkel, Justus-Liebig-University Giessen, Giessen, Germany*

Benefits of longer breastfeeding
Michael B. Krawinkel, Justus-Liebig-University Giessen, Giessen, Germany

Introduction of solids and semisolids – critical nutrient and energy density
Anna Lartey, University of Ghana, Legon, Ghana



Nutrition education and infant feeding

*Ellen A. Muehlhoff, Nutrition Education and Consumer Awareness Group, Nutrition Division (ESN),
FAO, Rome, Italy*

Health risks associated with infant feeding practices

Irmgard Jordan, Justus-Liebig-University, Giessen, Giessen, Germany

Closing

Michael B. Krawinkel, Justus Liebig University Giessen, Giessen, Germany

(Picasso) 08.00 – 10.00 | Parallel Symposium

**PS4-42B
T2 – 2.5**

Generating evidence of impact for integrated programs aimed to improve child nutrition during the first 1000 days (IFPRI)

*Chairs: Marie Ruel, International Food Policy Research Institute, Washington, USA
Reynaldo Martorell, Emory University, Atlanta, USA*

The evaluation of Tubaramure in Burundi: An integrated food aid program

Jef Leroy, International Food Policy Research Institute, Washington, USA

Using program impact pathways (PIPs) to trace early impact in the Alive & Thrive program in Bangladesh

Rahul Rawat, International Food Policy Research Institute, Washington, USA

The use of process evaluation to improve program implementation and potential impact on children's nutrition; evidence from HKI's homestead food production program in Burkina Faso

Deanna Olney, International Food Policy Research Institute, Washington, USA

Data for delivery

S K. Baker, Helen Keller International, New York, USA

Adding value to evaluation: answering "why" and "how" along with "did or didn't"

James Garrett, International Food Policy Research Institute, Washington, USA

11.30 – 13.30 | Parallel Symposium

**PS4-50
T2 – 2.2**

Early diet is critical for later development - New research into changing early eating habits (HABEAT and VIVA)

*Chairs: Sylvie Issanchou, INRA – CSGA, Dijon, France
Elvira Larque, University of Murcia, Murcia, Spain*

Critical periods for eating habit development; results from cohort studies in France, Portugal, Greece and UK

Pauline Emmett, University of Bristol, Bristol, UK

Learning to like vegetables: Applying learning theory to the acquisition of preferences for novel vegetables from 6 – 36m

Marion Hetherington, University of Leeds, Leeds, UK

Results of the taste study: an intervention to increase vegetable liking and consumption by exposure to a variety of vegetables at weaning

George Moschonis, University of Harokopio, Athens, Greece

Strategies to increase vegetable consumption in 3- to 6-years-olds: theory and practice

Gertrude Zeinstra, DLO-Food & Biobased Research, Wageningen, The Netherlands

Caloric compensation and eating in the absence of hunger in early childhood: impact of parental feeding practices
Sophie Nicklaus, INRA, Dijon, France

14.30 - 16.00 | Oral Communications

T2

*Chairs: Hee Young Paik, Department of Food and Nutrition, Seoul National University, Seoul, Korea
 Amelia Marti, University of Navarra, Pamplona, Spain*

- O138 ANTENATAL MULTIPLE MICRONUTRIENTS COMPARED TO IRON-FOLIC ACID LENGTHENS GESTATION, INCREASES BIRTH SIZE AND REDUCES RISK OF LBW IN RURAL BANGLADESH
A A. Shamim, Jivita Project, Gaibandha, Bangladesh
- O139 GLOBAL PROGRESS ON REDUCING ANEMIA IN PREGNANT WOMEN AND YOUNG CHILDREN
R. Galloway, Maternal And Child Health Integrated Program (MCHIP)/Program For Appropriate Technology In Health (PATH), Washington, USA
- O140 INCREASED N-3 PUFA STATUS IS ASSOCIATED WITH IMPROVED MATH AND READING PERFORMANCE IN THE OPUS SCHOOL MEAL STUDY
L B. Soerensen, Department of Nutrition, Exercise and Sports, University of Copenhagen, Copenhagen, Denmark
- O141 MOTHER'S POSITIVE ATTITUDE AND FAMILIARITY TOWARDS FORMULA MILK MAY CONTRIBUTE TO LOW DIETARY DIVERSITY AMONGST INDONESIAN URBAN YOUNG CHILDREN
A. Roshita, SEAMEO RECFON University of Indonesia, Indonesia
- O142 LONG-CHAIN POLYUNSATURATED FATTY ACIDS IN THE DIET AND MILK OF CROATIAN MOTHERS AT THREE MONTHS POSTPARTUM
G. Kresic, Department of Food And Nutrition; Faculty of Tourism and Hospitality Management, University of Rijeka, Opatija, Croatia
- O143 ASSOCIATION BETWEEN DIETARY CALCIUM INTAKE AND BLOOD PRESSURE AMONG PORTUGUESE CHILDREN
S. Abreu, Research Centre in Physical Activity, Health and Leisure, Faculty of Sport, University of Porto, Porto, Portugal
- O144 FREQUENCY AND DETERMINANTS OF DHA SUPPLEMENT USAGE IN PREGNANCY AND LACTATION IN GERMANY
L. Libuda, Research Institute of Child Nutrition Dortmund, University of Bonn, Germany
- O145 MOST EFFECTIVE PERIOD TO CONTROL ANAEMIA IN PREGNANCY: ADOLESCENCE OR PREPREGNANCY?
R. Jayatissa, Ministry of Health, Colombo, Sri Lanka

16.00 - 16.30 | Special Lecture

T2

*Chair: Antonia Trichopoulou, University of Athens Medical School,
 Hellenic Health Foundation, Athens, Greece*

The importance of dietary protein to maintain musculoskeletal mass and quality during aging
Daniel Moore, Department of Human Health and Nutritional Sciences, University of Guelph, Ontario, Canada

Falla Auditorium
08.00 – 10.00 | Parallel Symposium

PS4-43
T3 – 3.4

Nutrition profiling (WHO)

Chairs: Chizuru Nishida, Department of Nutrition for Health and Development, WHO, Geneva, Switzerland
João Breda, WHO Regional Office For Europe, Programme Manager, Nutrition, Physical Activity and Obesity Programme, Copenhagen, Denmark

WHO's work on developing guiding principles and methodological framework for developing or adapting nutrient profile models

Chizuru Nishida, Department of Nutrition for Health and Development, WHO, Geneva, Switzerland

Nutrient profiling to develop a model for marketing food and non-alcoholic beverages to children: Experiences and lessons learned from Norway

Arnhild Haga Rimestad, Norwegian Directorate of Health and Social Affairs, Oslo, Norway

Nutrient profiling to develop a model for front of pack labelling: Current issues and considerations

Mary L'Abbe, Department of Nutritional Sciences, Faculty of Medicine, University of Toronto, Canada

Nutrient profiling to develop a model for regulating health and nutrition claim: Experiences and lessons learned from South Africa

Edelweiss Wentzel-Viljoen, Centre of Excellence for Nutrition, Faculty of Health Sciences, North-West University, Potchefstroom, South Africa

Is it possible to develop a global nutrient profile model?

Mike Rayner, British Heart Foundation Health Promotion Research Group, Department of Public Health, University of Oxford, Oxford, UK

11.30 – 13.30 | Parallel Symposium

PS4-51
T3 – 3.1

Nutrition, physical activity and the prevalence of NCDs in the Middle East and North-Africa

Chairs: Ibrahim Elmadfa, University of Vienna, Vienna, Austria
Nahla Houalla, American University of Beirut, Beirut, Lebanon

Nutrition as a risk factor of cardiovascular diseases in countries of the Middle East

Nahla Houalla, American University of Beirut, Beirut, Lebanon

Nutrition and NCDs in North-Africa

Najat Mokhtar, International Atomic Energy Agency, Vienna, Austria

Physical activity and lifestyle habits of arab adolescents: Preliminary findings from the arab teens lifestyle study

Hazzaa Al Hazzaa, Riyadh, Pediatric Exercise Physiology Research Laboratory, Riyadh, Saudi Arabia

Building research capacity in nutrition to prevent NCDs in the Middle- East and North-Africa

Ibrahim Elmadfa, University of Vienna, Austria

The Palestinian Micronutrient Survey (PMS)- first representative national nutritional study

Ibrahim Elmadfa, A. Abu-Rub, A. Skaik, N Rizkallah, K. Ben-Abdallah (University of Vienna, MOH Ramallah & Gaza, UNICEF Jerusalem)

14.30 - 16.00 | Oral Communications

T3

*Chairs: Rekia Belahsen, Chouaib Douikkali University, El Jadida, Morocco
David Martinez, Department of Physical Education, Sports and Human Movement, Faculty of Teacher Training and Education, Autonomous University of Madrid, Madrid, Spain*

- O146 DIETARY PATTERNS ASSOCIATED WITH METABOLIC SYNDROME: THE KHORRAMABAD STUDY
E. Falahi, Department of Nutrition, Faculty of Health and Nutrition, Lorestan University of Medical Sciences, Khorramabad, Iran
- O147 BIOMARKERS OF CARDIOMETABOLIC RISK ARE ASSOCIATED WITH POOR LIFESTYLE PRACTICES IN URBAN SRI LANKAN WOMEN
I. Waidyatilaka, Department of Biochemistry And Molecular Biology, Faculty Of Medicine, University of Colombo, Sri Lanka
- O148 THE ECONOMIC IMPACT OF ANAEMIA IN PERU
I. Lasa Hernandez, Country Director, Action Against Hunger Spain, Lima, Peru
- O149 MICRONUTRIENT DEFICIENCY: A PUBLIC HEALTH PROBLEM IN HO CHI MINH CITY, VIETNAM
T T. Minh Hanh, Nutrition Center of Ho Chi Minh City, Vietnam
- O150 THE PARADOXAL LINK BETWEEN FOOD INSECURITY AND OBESITY IN PORTUGUESE ADULTS
M J. Gregorio, Faculty of Nutrition And Food Sciences of University of Porto, Porto, Portugal
- O151 STUDY TIME IS ASSOCIATED WITH DIETARY PATTERNS IN EUROPEAN ADOLESCENTS PARTICIPATING IN THE HELENA STUDY
A M. Santaliesra-Pasias, GENUD (Growth, Exercise, Nutrition and Development) Research Group, University of Zaragoza, Zaragoza, Spain
- O152 THE ASSOCIATION OF METABOLIC SYNDROME AND FOOD PATTERNS IN NON-MENOPAUSE WOMEN
M. Hajifaraji, Department of Nutrition & Food Security, National Nutrition & Food Technology Research Institute, Faculty of Nutrition & Food Technology, Shahid Beheshti Medical University, Tehran, I. R. Iran
- O153 ASSOCIATION BETWEEN A HEALTHY DIET ACCORDING TO WHO GUIDELINES AND ALL-CAUSE MORTALITY IN EUROPEAN AND AMERICAN ELDERLY, THE CHANCES PROJECT
N. Jankovic, Division of Human Nutrition, Wageningen University, Wageningen, The Netherlands

16.00 - 16.30 | Special Lecture

T3

Chair: Theodora Handjeva-Darlenska, Department of Pharmacology and Toxicology, Faculty of Medicine, Medical University, Sofia, Bulgaria

Obesity of the rich, obesity of the poor: Two epidemics?

Benjamin Caballero, International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, USA

Lorca Auditorium

08.00 - 10.00 | Parallel Symposium

PS4-44
T4 - 4.5

Nutrition in inflammatory bowel diseases. From basic to clinical application

*Chairs: Fermin Sanchez de Medina, Department of Pharmacology, University of Granada, Granada, Spain
Herbert Lochs, Medizinische Universität, Innsbruck, Austria*

To feed or not to feed? Are nutritional supplements worthwhile in active Crohn's disease?
Herbert Lochs, Medizinische Universität, Innsbruck, Austria

Dietary modulation of peroxisome proliferator-activated receptor gamma
Subrata Ghosh, University of Calgary, Calgary, Italy

Artificial Nutrition in IBD: nutritional therapy and beyond?
Eduard Cabre, Hospital Triu I Pujol, Badalona, Spain

10.30 – 11.30 | Plenary Lecture

Chair: Ibrahim Elmadfa, President of the IUNS, University of Vienna, Vienna, Austria

Presentation of the IUNS Award

Anna Lartey, University of Ghana, Legon, Ghana

IUNS Award Lecture

Awardee

11.30 – 13.30 | Parallel Symposium

**PS4-52
T4 – 4.5**

International Life Sciences Institute (ILSI) Session on Food Allergy

*Chairs: Clare E.N. Mills, Institute of Inflammation and Repair, The University of Manchester, Manchester, UK
Diana Banati, International Life Sciences Institute Europe, Brussels, Belgium*

Introduction to ILSI's Food Allergy programs at the different branches

Diana Banati, Executive and Scientific Director, International Life Sciences Institute Europe, Brussels, Belgium

Allergens prevalence

Clare E.N. Mills, Institute of Inflammation and Repair, The University of Manchester, Manchester, UK

Probabilistic risk assessment in setting allergen thresholds

Steve Taylor, Food Allergy Research & Resource Program - University of Nebraska, Lincoln, USA

The Consumer perspective—Living with uncertainty

Audrey Dunn Galvin, School of Applied Psychology, University College Cork, Honorary Research Fellow, Department of Paediatrics and Child Health, Cork University Hospital, Cork, Ireland

Protein allergenicity

Gregory S. Ladics, DuPont Company, Pioneer HI-Bred - PhD, DABT, ATS, Research Fellow, DuPont (Co-Chair, HESI Protein Allergenicity Technical Committee), Wilmington, USA

14.30 – 16.00 | Oral Communications

T4

*Chairs: Duo Li, Department of Food Science & Nutrition, Zhejiang University, Hangzhou, China
Luis Fontana, University of Granada, Granada, Spain*

- O154 CHARACTERIZATION OF BIOLOGICAL BARRIERS THAT IMPACT NUTRITIONAL STATUS AMONG HIV-POSITIVE AND HIV-NEGATIVE WOMEN AND THEIR INFANTS IN SEMI-RURAL TANZANIA
AL. Wilkinson, Cornell University, Ithaca, New York, USA
- O155 MALNUTRITION AMONG EGYPTIAN CHILDREN
S. El-Masry, Biological Anthropology Dept., National Research Centre, Cairo, Egypt
- O156 PROCOLLAGEN III N-TERMINAL PROPEPTIDE BEYOND A FIBROSIS BIOMARKER IN NON-ALCOHOLIC FATTY LIVER DISEASE ASSOCIATED WITH OBESITY IN CHILDREN
O. Rangel, Department of Biochemistry and Molecular Biology II, Institute of Nutrition and Food Technology, Biomedical Research Centre, University of Granada, Granada, Spain
- O157 POST-PRANDIAL APPETITIVE AND GLYCEMIA-REGULATING EFFECTS OF ALMONDS CONSUMED WITH MEALS OR AS SNACKS
S Y. Tan, Department of Nutrition Science, Purdue University, West Lafayette, Indiana, USA
- O158 CARDIOVASCULAR PREVENTIVE EFFECT OF FRUITS AND VEGETABLES: IS IT MODIFIED BY OLIVE OIL CONSUMPTION?
J M. Nuñez-Córdoba, Department of Preventive Medicine and Public Health, Medical School - Clinica, University of Navarra, Pamplona, Spain

- O159 THE ROLE OF NUT CONSUMPTION IN MAINTAINING CARDIOVASCULAR HEALTH AND COGNITIVE FUNCTION
J. Barbour, Nutritional Physiology Research Centre, University of South Australia, Adelaide, South Australia, Australia
- O160 EFFECTS OF PARENTERAL NUTRITION FORMULAS ON PLASMA LIPID PROFILE IN CHILDREN WITH BONE MARROW TRANSPLANTATION
M. Gil-Campos, Reina Sofia University Hospital, Cordoba, Spain
- O161 ABUNDANCE AND DIVERSITY OF MICROBIOTA IN METABOLIC SYNDROME
M. Remely, Department of Nutritional Sciences, University Vienna, Vienna, Austria

16.00 - 16.30 | Special Lecture

T4

Chair: *Eduard Cabre, Hospital Trias I Pujol, Badalona, Spain*
Diet and noncommunicable diseases: Lessons from the EPIC-Study
Heiner Boeing, German Institute of Human Nutrition, Berlin, Germany

Room B

08.00 – 10.00 | PS4-45

PS4-45
T5 – 5.4

Iron and Malaria (FeMal) Project Results

Chair: *Andrew Prentice, London School of Hygiene and Tropical Medicine, London, UK*
Overview of the Iron and Malaria Project
Daniel Raiten, U.S. National Institutes of Health, Bethesda, USA
Iron and Malaria Project: progress report on funded grants
Andrew Prentice, London School of Hygiene and Tropical Medicine, London, UK
Harmonization of soluble transferrin receptor (sTfR) measurements
Vesper Hubert, U.S. Centers for Disease Control and Prevention
Results from the Biomarkers Reflecting Inflammation and Nutrition Determinants of Anemia (BRINDA) Pooled Dataset
Parmi Suchdev (aim 1), U.S. Centers for Disease Control and Prevention & Sorrel Namaste (aim 2), U.S. National Institutes of Health
Discussion

11.30 – 13.30 | Parallel Symposium

PS4-53
T5 – 5.4

Strengthening micronutrient nutrition surveillance: WHO and CDC tools and methods

Chairs: *Juan Pablo Pena-Rosas, World Health Organization, Geneva, Switzerland*
Rafael Flores-Ayala, U.S. Centers for Disease Control and Prevention (CDC), Atlanta, USA
The upgrade and expansion of the WHO vitamin and mineral nutrition information system (VMNIS)
Luz Maria De-Regil, Department of Nutrition for Health and Development, World Health Organization (WHO), Geneva, Switzerland
Juan Pablo Pena-Rosas, World Health Organization, Geneva, Switzerland
The nutrition survey toolkit and the 2nd edition of the micronutrient survey manual to improve the design and quality of micronutrient surveys
Kevin Sullivan, U.S. Centers for Disease Control and Prevention (CDC), Atlanta, USA
Rafael Flores-Ayala, U.S. Centers for Disease Control and Prevention (CDC), Atlanta, USA

The new WHO/CDC indicator eCatalogue as a source of indicators to monitor and evaluate micronutrient interventions

Juan Pablo Pena-Rosas, World Health Organization, Geneva, Switzerland

Maria Elena del Socorro Jewfferds, U.S. Centers for Disease Control and Prevention (CDC), Atlanta, USA

Continuous household surveys to produce high quality, low cost and timely micronutrient surveillance data

Rafael Flores-Ayala, U.S. Centers for Disease Control and Prevention (CDC), Atlanta, USA

Maria Elena del Socorro Jewfferds, U.S. Centers for Disease Control and Prevention (CDC), Atlanta, USA

14.30 - 16.00 | Oral Communications

T5

Chairs: M^a Dolores Yago, University of Granada, Granada, Spain

Santiago Navas-Carretero, University of Navarra, Pamplona, Spain

- O162 INTELLIGENCE AND ITS ASSOCIATION WITH NUTRITIONAL STATUS IN PRIMARY SCHOOL PUPILS IN LAFIA, NIGERIA
S. Okolo, Department of Paediatrics, Jos University Teaching Hospital, Jos, Nigeria
- O163 INCREASED RESTING ENERGY EXPENDITURE IN YOUNG ADULTS WITH HIGH TRIGLICERYDES
M A. Anaya-Loyola, Autonomous University of Queretaro, Mexico
- O164 SERUM RETINOL AND ANTHROPOMETRIC STATUS OF 2-5-YEAR-OLD SOUTH AFRICAN CHILDREN AND THEIR CAREGIVERS WITH DIVERSE DIETARY PATTERNS
M. Faber, Nutritional Intervention Research Unit, Medical Research Council, South Africa
- O165 DESIGN, ASSESSMENT OF REPRODUCIBILITY AND VALIDITY OF A FOOD FREQUENCY QUESTIONNAIRE IN A SAMPLE OF ADULTS LIVING IN QUITO-ECUADOR(QFA-QUITO)
M. Silva, Department of Public Health Nutrition, Ministry of Health, Quito-Ecuador
- O166 RELATIONSHIP BETWEEN MAGNESIUM INTAKE, C- REACTIVE PROTEIN LEVELS AND THE METABOLIC SYNDROME COMPONENTS IN A HEALTHY ADULT POPULATION FROM MADRID
T K. Villalobos, Department of Nutrition, Faculty of Pharmacy Complutense University of Madrid, Madrid, Madrid, Spain
- O167 DETERMINANTS OF VITAMIN D STATUS IN PATIENTS WITH STABLE ANGINA
J. Dierkes, University of Bergen, Dept. Of Clinical Medicine, Norway
- O168 RISK FACTORS OF IRON DEFICIENCY AMONG CHILDREN 6-59 MONTHS IN THE NORTHERN REGION OF GHANA
B. Abu, Department of Nutrition and Dietetics, University of the Free State, Bloemfontein, Free State, South Africa
- O169 TOWARDS A COMPREHENSIVE WEB-BASED DIETARY RESEARCH INFRASTRUCTURE TO SUPPORT INTERNATIONAL MONITORING AND EPIDEMIOLOGICAL NUTRITIONAL STUDIES
N. Slimani, International Agency For Research On Cancer, Dietary Exposure Assessment Group, Lyon, France

16.00 - 16.30 | Special Lecture

T5

Chair: Malzorgata Schlegel-Zawadzka, Institute of Public Health, Jagiellonian University, Krakow, Poland

Iron food fortification and anemia prevention

Mari Nieves Garcia Casal, Instituto Venezolano de Investigaciones Cientificas (IVIC), Venezuela

Room C

08.00 – 10.00 | Parallel Symposium

PS4-46
T6 – 6.1

Functional roles of human milk and other selected oligosaccharides

*Chairs: Alan W. Walker, Harvard Medical School, Massachusetts General Hospital, Boston, USA
Jamuna Prakash, Department of Food Science and Nutrition, University of Mysore,
Manasagangotri, Mysore, India*

Isolation, characterization and functional roles of human milk oligosaccharides
Clemens Kunz, Institute of Nutritional Sciences, University of Giesse, Germany

Basic aspects of human milk oligosaccharides; new animal and ex-vivo observations
Pedro A. Prieto, Abbott Nutrition, Strategic Research Department, Columbus, USA

The role of human milk oligosaccharides in intestinal colonization
Alan W. Walker, Harvard Medical School, Massachusetts General Hospital, USA

Non-absorbable oligosaccharides: just prebiotics?
Olga Martinez, CIBERehd. University of Granada, Granada, Spain

11.30 – 13.30 | Parallel Symposium

PS4-54
T6 – 6.1

Functional roles of prebiotic inulin-type fructans

*Chairs: Nathalie Delzenne, Universite Catholique de Louvain, Belgium
Olga Martinez, CIBERehd. University of Granada, Granada, Spain*

Prebiotic modulation of the human gut microbiota: Is this a health benefit?
Robert A. Rastall, Reading University, UK

Gut microbiota impact on metabolic disorders associated with obesity
Nathalie Delzenne, Universite Catholique de Louvain, Belgium

Prebiotics in infant nutrition
Ricardo Closa Monasterolo, Hospital Universitari Joan XXIII de Tarragona, Spain

Role of prebiotics in regulating energy intake and body weight
Raylene Reimer, Univ Calgary, Canada

14.30 – 16.00 | Oral Communications

T6

*Chairs: Malgorzata Schlegel-Zawadzka, Department of Human
Nutrition, Institute of Public Health, Faculty of Health Sciences, Jagiellonian University Medical
College, Krakow, Poland
Jorge Mujico, Institute of Food and Technology and Nutrition (ICTAN), Spanish National
Research Council (CSIC), Madrid, Spain*

- O170 COLD PRESSED OILS AS A SOURCE OF BIOACTIVE COMPOUNDS
*A. Obiedzinska, Institute of Agricultural and Food Economics - National Research Institute, Warsaw,
Poland*
- O171 INHIBITORY EFFECTS OF LYCOPENE ON THE PROLIFERATION AND PROGRESSION OF HUMAN
COLON CANCER CELLS IN BOTH IN VITRO AND IN VIVO MODELS
F. Tang, Department of Nutrition, China Medical University, China

- O172 ANTI-INFLAMMATORY AND ANTIOXIDANT PROPERTIES OF FLAVONOID-RICH EXTRACTS FROM HELICHRYSUM AND GRAPEFRUIT IN INSULIN RESISTANT RATS
A L. De La Garza, Department of Nutrition, Food Science and Physiology, University of Navarra, Spain
- O173 ORAL INTAKE OF A SPECIFIC OREGANO EXTRACT BY HEALTHY HUMANS INCREASES CALMNESS, VIGILANCE AND MENTAL PROCESSING SPEED
M H. Mohajeri, DSM Nutritional Products, Human Nutrition, Basel, Switzerland
- O174 IMPROVEMENT EFFECTS OF CHLOROGENIC ACID ON LATE DIABETES THROUGH ADIPONECTIN RECEPTOR SIGNALING PATHWAYS IN DB/DB MICE
C. Chang, 3rd Hospital of Peking University, China
- O175 YOUNG ZEA MAYS POWDER IMPROVES SOME NUTRIENT COMPOSITION AND REDUCES GLYCEMIC INDEX OF BUTTER BISCUIT
W R. W I, Universiti Sains Malaysia, Malaysia
- O176 GLYCEMIC AND INSULINEMIC RESPONSES DIFFER DEPENDING ON THE CONTENT OF SLOWLY DIGESTIBLE STARCH IN CEREAL PRODUCTS INCLUDED IN BREAKFAST
A. Meynier, Mondelez International R&D, Nutrition Department, Saclay, France
- O177 COMPARISON OF THE EFFECT OF DARK AND WHITE CHOCOLATE ON APO B, APOA-1, LIPID PROFILE, HS-CRP, GLYCAEMIC CONTROL AND BLOOD PRESSURE IN HYPERTENSIVE TYPE 2 DIABETICS
S. Eghtesadi, Department of Nutrition and Biochemistry, Tehran University of Medical Sciences, Tehran, Iran

16.00 - 16.30 | Special Lecture

T6

Chair: Frank Hu, Department of Nutrition, Harvard School of Public Health, Harvard University, Boston, USA

Cardiovascular Effects of dietary flavonoids - Is there a potential benefit in diabetes?

Ian Macdonald, University of Nottingham, Nottingham, UK

Machuca and Albeniz Rooms 08.00 – 10.00 | Parallel Symposium

**PS4-47
T7 - 7.1**

Mediterranean diet and disease

*Chairs: Denis Lairon, Vice President of FENS
Joan Sabate, Loma Linda University, Loma Linda, USA*

Mediterranean diet and metabolic syndrome

Demosthenes Panagiotakos, Dept of Nutrition and Dietetics, Harokopio University, Athens, Greece

Mediterranean diet, health benefits and the role of traditional foods

Antonia Trichopoulou, University of Athens Medical School, Hellenic Health Foundation, Athens, Greece

Mediterranean diet and cancer: Where we are and new insights

Dora Romaguera-Bosch, University Hospital Son Espases, Palma de Mallorca, Spain

Depression and mediterranean diet

Lluís Serra-Majem, University of Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain

11.30 – 13.30 | Parallel Symposium

PS4-55
T7 - 7.1

PREDIMED study

Chairs: Frank Hu, Department of Nutrition, Harvard School of Public Health, Harvard University, Boston, USA
Carlos Alberto Gonzalez, Catalan Institute of Oncology, Hospitalet de Llobregat, Spain

The PREDIMED study: Rational, design, methods and interventions
Emilio Ros Rahola, Hospital Clinic, Barcelona, Spain

Effect of Mediterranean diet on classical and emergent risk factors of cardiovascular disease in the PREDIMED Study
Montserrat Fito, Cardiovascular Risk and Nutrition Research Group, IMIM-Institut de Recerca del Hospital del Mar, Barcelona, Spain

Mediterranean diet, metabolic syndrome and diabetes prevention in the PREDIMED Study
Jordi Salas-Salvado, Human Nutrition Unit, University Hospital of Sant Joan, Rovira I Virgili University, Reus, Spain

Mediterranean diet in the primary prevention of cardiovascular disease
Ramon Estruch, Department of Internal Medicine, Hospital Clinic, Institut d'Investigacions Biomèdiques August Pi Sunyer (IDIBAPS), Barcelona, Spain

Interactions between Mediterranean diet and genetic variants, and risk of disease in the PREDIMED Study
Dolores Corella, Department of Preventive Medicine and Public Health, University of Valencia, Valencia, Spain

The PREDIMED PLUS: Objectives and implementation
Miguel Angel Martinez-Gonzalez, Department of Preventive Medicine and Public Health, Medical School-Clinica, University of Navarra, Pamplona, Spain

14.30 - 16.00 | Oral Communications

T7

Chairs: Maria del Puy Portillo, University of the Basque Country, Vitoria, Spain
Elvira Larque, University of Murcia, Murcia, Spain

- O178 ADOLESCENT DIETARY PATTERNS: TRADITION OR CONVENIENCE
M. De Lanerolle-Dias, Department of Biochemistry And Molecular Biology, Faculty Of Medicine, University of Colombo, Colombo, SriLanka
- O179 IMPROVING WOMEN AND CHILDREN NUTRITION THROUGH TARGETED CAPACITY BUILDING INTERVENTIONS: EXPERIENCE FROM ETHIOPIA
A. Guyon, John Snow Inc.(JSI), Ethiopia
- O180 CONDITIONS OF NUTRITION OF CHILDREN FROM 7 TO 10 YEARS IN PUBLIC SCHOOLS AT REGION MARUIPE, VITORIA/ES - BRAZIL
L. Salaroli, Department of Education Integrated Health, Federal University of Espirito Santo, Brazil
- O181 TRENDS IN FOOD CONSUMPTION OVER 25 YEARS IN A DUTCH ADULT POPULATION
M. Geurts, Centre for Nutrition, Prevention and Health services, National Institute of Public Health and the Environment, The Netherlands
- O182 SOCIO-DEMOGRAPHIC PATTERNS OF HYPERTENSION, KNOWLEDGE, BEHAVIOURS AND PRACTICES OF ADULT TRIBAL (ADIVASIS) POPULATION IN INDIA: A FIRST NATIONAL MONITORING SURVEY
A. Laxmaiah, Division of Community Studies, National Institute of Nutrition, Hyderabad, India
- O183 THE EFFECT OF AFRICAN LEAFY VEGETABLES ON THE MICRONUTRIENT STATUS OF SCHOOL CHILDREN IN SOUTH AFRICA: A RANDOMIZED CONTROLLED TRIAL
J. Osei, Centre of Excellence For Nutrition (CEN), North-West University, South Africa

- O184 DEVELOPING HEALTHY INDIGENOUS MENUS THROUGH WOMEN'S GROUP PARTICIPATION
S. Poosawang, Faculty of Humanities, Chiang Mai University, Chiang Mai, Thailand
- O185 PURCHASES OF ULTRA-PROCESSED PRODUCTS BY COLOMBIAN HOUSEHOLDS AND THEIR ASSOCIATION WITH DIETARY QUALITY
C. Arango, National School of Public Health, University of Antioquia, Medellin, Antioquia, Colombia

16.00 - 16.30 | Special Lecture

T7

Chair: Maria Daniel Vaz de Almeida, Sciences, University of Porto, Porto, Portugal

Innovation and quick-wins in nutrition policies in WHO European Region

Joao Breda, WHO Regional Office For Europe, Programme Manager, Nutrition, Physical Activity and Obesity Programme, Copenhagen, Denmark

Room D

08.00 – 10.00 | Parallel Symposium

**PS4-48
T8 – 8.2**

Bellagio report on healthy agriculture, healthy nutrition, healthy people

Chair: Ascension Marcos, Institute of Food and Technology and Nutrition (ICTAN), Spanish National Research Council (CSIC), Madrid, Spain

Marine n-3 PUFA intake and risk of breast cancer

Duo Li, Department of Food Science & Nutrition, Zhejiang University, Hangzhou, China

Consumption patterns and trends for sugar-added beverages in Malaysia: Implications for human health
Leng Huat Foo, Programme of Nutrition, School of Health Sciences, Universiti Sains Malaysia, Health Campus, Kelantan, Malaysia

Sugar-sweetened beverages consumption and obesity

Guansheng Ma, National Institute for Nutrition and Food Safety, China Chinese Center for Disease Control and Prevention, Beijing, China

11.30 – 13.30 | Parallel Symposium

**PS4-56A
T8 – 8.2**

Food and Nutrition Reporting in the Media

Chair: Josephine Wills, Director General, European Food Information Council, Brussels, Belgium

Do Media Headlines Equal Credibility and Trust? A Look at US Consumer Insights on Trusted Sources for Food & Health Information

Marianne Smith Edge, International Food Information Council, Washington, USA

Comparison of reporting of food benefits and risks in European newspapers

Mary Friel, European Food Information Council (EUFIC), Brussels, Belgium

The Challenges of reporting about nutrition; a journalist's perspective

Emilio de Benito Cañizares, EL PAIS Science/ Health Journalist, Madrid, Spain

Seminars 3, 4, 5
08.00 – 10.00 | Parallel Symposium

PS4-48B
T8 - 8.3

Towards a European school food and nutrition network

Chair: Barrie Margetts, University of Southampton, Southampton, UK

Introduction to the session

Barrie Margetts, University of Southampton, Southampton, UK

Follow-up on municipality interventions to prevent obesity - A newly developed cartoon series on education in schools

Ana Rito, National Institute of Health, Doutor Ricardo Jorge, Universidade Atlantica, Lisbon, Portugal

Mechanisms to inform policy developments on school nutrition: examples from COSI (Childhood Obesity Surveillance Initiative) and the Health Behaviour in School-Aged Children (HBSC)

Joao Breda, WHO Regional Office For Europe, Copenhagen, Denmark

Vivian Barnekow, WHO Regional Office For Europe, Copenhagen, Denmark

School food, attainment and obesity

Michael Nelson, Public Health Nutrition Research Ltd, London, UK

Assessing school food policies across the EU

Sandra Caldeira, European Commission, Institute for Health and Consumer Protection, Ispra, Italy

Introduction to a proposal for a European school food and nutrition network

Michael Nelson, Director, Public Health Nutrition Research Ltd, London, UK

Joao Breda, WHO Regional Office For Europe, Programme Manager, Nutrition, Physical Activity and Obesity Programme, Copenhagen, Denmark

Sandra Caldeira, European Commission, Institute for Health and Consumer Protection, Ispra, Italy

Needs of network members – General Discussion

Ways forward

Michael Nelson, Director, Public Health Nutrition Research Ltd, London, UK

Joao Breda, WHO Regional Office For Europe, Programme Manager, Nutrition, Physical Activity and Obesity Programme, Copenhagen, Denmark

Sandra Caldeira, European Commission, Institute for Health and Consumer Protection, Ispra, Italy

Summing up

Barrie Margetts, University of Southampton, Southampton, UK

Seminars 3, 4, 5
11.30 – 13.30 | Parallel Symposium

PS4-56B
T8 - 8.3

Mitigating affordability constraints to accessing nutrient requirements

Chairs: Saskia de Pee, WFP, Rome, Italy

Nancy J Aburto, UN World Food Programme, WFP – CIFF Stunting Prevention Initiative, Rome, Italy

Introduction of the topic

Saskia de Pee, WFP, Rome, Italy

Use of Propan to design complementary feeding guidelines in-line with local food preferences and affordability - focus on Latin America

Chessa Lutter, Pan American Health Organization/WHO, NW, Washington, DC, USA

Improving complementary feeding practices within the limits of households' constraints of accessing nutritious foods - example from Zimbabwe

Amy Desai, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA

Modeling different strategies to increase affordability of meeting nutrition requirements of different household members - Cost of Diet example from Indonesia

Giulia Baldi, World Food Programme, Indonesia Country Office, Jakarta, Indonesia

Comparing results of cost of diet analysis obtained with primary and secondary data - example from Afghanistan

Soo Mee Baumann, WFP Regional Bureau for Asia, Bangkok, Thailand

14.30 - 16.00 | Oral Communications

T8

Chairs: Xianguang Yang, Danone Institute of China, Beijing, China

Antonio Guadix, Department of Engineering, University of Granada, Granada, Spain

- O186 THE INFORMAS FRAMEWORK FOR MONITORING AND BENCHMARKING DIET QUALITY GLOBALLY: A STEP-BASED APPROACH
S. Vandevijvere, School of Population Health, Department of Epidemiology and Biostatistics, University of Auckland, New Zealand
- O187 MONITORING THE NUTRITIONAL COMPOSITION OF FOODS TO IMPROVE THE GLOBAL FOOD SUPPLY
E. Dunford, The George Institute For Global Health, Sydney, Australia
- O188 HIGH BIOAVAILABILITY IRON MAIZE (ZEA MAYS L.) DEVELOPED THROUGH MOLECULAR BREEDING PROVIDES MORE ABSORBABLE IRON IN-VITRO (CACO-2) AND IN-VIVO (GALLUS-GALLUS)
E. Tako, USDA-ARS, Robert Holley Center for Agriculture and Health, Cornell University, NY, USA
- O189 ASSOCIATION BETWEEN DIETARY INTAKES OF POLYCHLORINATED BIPHENYLS (PCBs) AND RISK OF OBESITY
M. Bes-Rastrollo, Dept. Of Preventive Medicine And Public Health, University of Navarra, Pamplona, Spain; CIBER Fisiopatología de La Obesidad Y Nutrición (CIBEROBN), Instituto de Salud Carlos III, Spain
- O190 COMPARISON OF EFFECT OF CASH TRANSFER WITH OR WITHOUT SPECIAL NUTRITIOUS FOOD ON PREVENTING CHILDHOOD ACUTE MALNUTRITION IN NIGER
C. Langendorf, Epicentre, Paris, France
- O191 POTENTIAL OF WILD EDIBLE PLANTS TO COMBAT NUTRITIONAL AND FOOD INSECURITY: A CASE FROM INDIAN HIMALAYAN REGION
I. Bhatt, G.B. Pant Institute of Himalayan Environment and Development, India
- O192 EFFECTIVE COMMUNICATION CHANNELS FOR COMMUNITY MOBILIZATION DURING VITAMIN A SUPPLEMENTATION CAMPAIGNS IN 3 STATES OF NIGERIA
I. Chima, Helen Keller International, Abuja, Nigeria
- O193 PHYTOCHEMICAL COMPOSITION OF PROCESSED AND RAW SAMPLES OF SOME LESSER KNOWN VEGETABLES FROM EASTERN ZONE NIGERIA
O. Olawale, Federal University Wukari, Nigeria

16.00 - 16.30 | Special Lecture

T8

Chair: Philip C. Calder, University of Southampton (USoton), Southampton, UK

Identifying and characterizing the effects of nutrition on learning and memory

Neal Cohen, Neuroscience Program, and Beckman Institute; Neuroscience Program (NSP); Center for Nutrition, Learning, and Memory (CNLM); Center for Lifelong Improvement of Minds & Brains (CLIMB); University of Illinois, Champaign, USA

Friday, September 20th

Andalucia Rooms
08.00 – 10.00 | Parallel Symposium

PS5-57
T1 -1.4

Early programming and nutrition in Latin America

Chairs: Francisco Mardones, Pontificia Catholic University of Chile, Santiago, Chile
Cristina Campoy, University of Granada, Granada, Spain

Body mass index at birth, school age and adulthood as predictor of impaired blood pressure in young adults in Latin America
Alexandre A. Ferraro, Universidade de Sao Paulo, Sao Paulo, Brazil

Maternal obesity and neonatal insulin resistance in the origin of metabolic syndrome in childhood
Marcelo Farias, Pontificia Catholic University of Chile, Santiago, Chile

Follow up of a cohort of malnourished children at age 20-30 years
Jaime Rozowski, Pontificia Catholic University of Chile, Santiago, Chile

Early growth and bone maturation
Sylvia Cruchet, Institute of Nutrition and Food Technology, University of Chile, Santiago, Chile

A new standard for insulin resistance and its association with the metabolic syndrome in Chilean school age children
Salesa Barja, Pontificia Catholic University of Chile, Santiago, Chile

Association of pre and post natal growth with metabolic syndrome components during childhood
Francisco Mardones, Pontificia Catholic University of Chile, Santiago, Chile

10.30 – 12.00 | Parallel Symposium

PS5-65
T1 -1.4

Metabolic and nutritional aspects of genetic diseases

Chairs: Jose L. Santos, Pontificia Catholic University of Chile, Santiago, Chile
Luis Fontana, University of Granada, Granada, Spain

Therapeutic strategies in organic acidurias
Magdalena Ugarte, Autonomous University of Madrid, Madrid, Spain

Nutritional aspects of Phenylketonuria & Methylmalonic acidemia
Veronica Cornejo, Institute of Nutrition and Food Technology (INTA) - University of Chile, Santiago, Chile

Omega 3 fatty acids and inborn errors of metabolism
Mercedes Gil-Campos, Reina Sofia University Hospital, Cordoba, Spain

Strategies for searching genetic causes of extreme phenotypes of metabolic traits
Jose Luis Santos, Pontificia Catholic University of Chile, Santiago, Chile

Machado and Picasso Rooms
08.00 – 10.00

PS5-58
T2 – 2.1

The NU-AGE project: New dietary strategies about healthy nutrition for the elderly

Chairs: Claudio Franceschi, University of Bologna, Bologna, Italy
Sue Fairweather-Tait, University of East Anglia, Norwich, UK

A randomized trial on the effect of a full dietary intervention on ageing in European elderly people:
The NU-AGE study

Lisette de Groot, University of Wageningen, Wageningen, The Netherlands

Diet-microbiota-health interactions in older persons - the ELDERMET study and probing causality in the NuAge project

Paul O'Toole, University of Cork, Cork, Ireland

Nutritional metabonomics: development and validation of aging biomarkers

Sebastiano Collino, Nestle Institute Of Health Science, Lausanne, Switzerland

Socio-economic determinants of food choices and diet quality among the EU elderly

Xavier Irz, Maa Ja Elintarviketalouden Tutkimuskeskus, Helsinki, Finland

(Machado)
10:30-12:00 | Parallel Symposium

PS5-66A
T5 – 5.4

Trace elements and chronic diseases

Chairs: Manuel Ruz, University of Chile, Santiago, Chile
Miguel Navarro, University of Granada, Spain

Zinc and obesity

Jorge Rosado, Autonomous University of Queretaro, Queretaro, Mexico

Iron and inflammation in type-2 diabetes

Miguel Arredondo, University of Chile, Santiago, Chile

Zinc and inflammation in type-2 diabetes

Olga P. Garcia, Autonomous University of Queretaro, Queretaro, Mexico

Zinc as coadjuvant in type-2 diabetes treatment

Manuel Ruz, University of Chile, Santiago, Chile

Falla Auditorium
8:00-10:00 | Parallel Symposium

PS5-59
T3 – 3.6

Food insecurity and obesity across the life cycle

Chairs: Rafael Perez-Escamilla, Yale School of Public Health, New Haven, USA
Gilberto Kac, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil

Household food insecurity and obesity across the life cycle: Conceptual framework and biological plausibility

Rafael Perez-Escamilla, Yale School of Public Health, New Haven, USA

Household food insecurity and excessive weight among Brazilian subjects: A life-course approach
Gilberto Kac, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil

Food security and obesity risk throughout life cycle stages in Mexico
Juan Rivera/Teresa Shamah Levy, INSP, Cuernavaca, Mexico

Household food insecurity and obesity risk across the life course: USA
Ed Frongillo, University of South Carolina, Columbia, USA

Summary and policy implications
Gilberto Kac, Federal University of Rio de Janeiro, Brazil
Rafael Perez-Escamilla, Yale School of Public Health, New Haven, USA

10.30 – 12.00 | Parallel Symposium

PS5-67
T3 – 3.2

Type 2 diabetes in Asia's rapid growth is due to genetic or dietary change?

Chair: Duo Li, Department of Food Science & Nutrition, Zhejiang University, Hangzhou, China

Effects of nutrition, lifestyle and genetic factors on metabolic abnormalities among Chinese
Xu Lin, Professor, Chinese Academy of Sciences (CAS), Beijing, China

Asians are much more vulnerable to dietary change due to lower insulin secretion
Kiyoshi Tanaka, Kyoto Women's University, Kyoto, Japan

Overweight and diabetes in India
Anura V Kurpad, St John's Medical College, Bangalore, India

Effect of vitamin B12 and n-3 polyunsaturated fatty acids on plasma homocysteine, and other cardiovascular risk factors: randomized controlled trial
Tao Huang, Johns Hopkins University, Baltimore, Maryland, USA

Insulin resistance in glucose tolerant obese adolescents are associated with increased level of plasma hsCRP and uric acid
Agussalim Bukhari, Hasanuddin University, Makassar, Indonesia

Lorca Auditorium 08.00 – 10.00 | Parallel Symposium

PS5-60
T4 – 4.5

Maternal nutritional supplementation of HIV-infected women during lactation: Implications for maternal and infant health in resource-poor settings

Chairs: Linda Adair, University of North Carolina, Chapel Hill, USA
Mònica Bullo Bonet, Rovira i Virgili University, CIBERObn, Reus, Spain

The BAN Study in Malawi: Use of qualitative methods to guide study design and evaluation of a randomized controlled nutrition supplementation and prevention of mother-to-child nutrition intervention trial
Margaret Bentley, University of North Carolina, Chapel Hill, USA

Effects of maternal nutrition supplementation and anti-retroviral treatment on the postpartum weight and micronutrient status and breast milk composition of HIV-infected women in the BAN Study
Linda Adair, University of North Carolina, Chapel Hill, USA

Growth and micronutrient status of HIV-exposed infants in the BAN study during the first year of life
Valerie Flax, University of North Carolina, Chapel Hill, USA

Meeting the nutritional needs of hiv-infected women and infants in resource-poor settings: program and policy implications

Ellen Piwoz, Bill and Melinda Gates Foundation, Washington, USA

10.30 – 12.00 | Parallel Symposium

**PS5-68
T4 – 4.5**

New insights in obesity, metabolic syndrome and diabetes

*Chairs: Francisco Mardones, Pontificia Catholic University of Chile, Santiago, Chile
J. Alfredo Martinez, University of Navarra, Pamplona, Spain*

Genetic susceptibility to obesity and metabolic syndrome in childhood
Concepcion M. Aguilera, University of Granada, Granada, Spain

Circadian rhythms, food timing and obesity
Marta Garaulet, University of Murcia, Murcia, Spain

Recent advances in nutritional sciences: gene therapy for diabetes and the genetic basis of postprandial metabolism
Raul A. Bastarrachea, Department of Genetics, Texas Biomedical Research Institute, San Antonio, Texas, USA

12.00 – 13.30 | Closing Ceremony

*Chairs: Angel Gil, University of Granada, Granada, Spain
Ibrahim Elmadfa, University of Vienna, Vienna, Austria*

- 12:00-12:15** **Towards a new milestone in European nutrition and physical activity policies - Vienna Declaration on Nutrition and NCD**
João Breda, WHO Regional Office For Europe, Programme Manager, Nutrition, Physical Activity and Obesity Programme, Copenhagen, Denmark
- 12:15-12:45** **Closing Lecture**
Health and Well Being in the Changing Urban Environment
Dov Jaron, School of Biomedical Engineering, Science & Health Systems, Member of the International Council of Science (ICSU) Board, Drexel University, Philadelphia, USA
- 12:45-13:00** **Presentation IUNS 21st ICN**
- 13:00-13:15** **Closing remarks**
- 13:15-13:45** **Performance**
- 14:00-15:30** **Show Cooking at Parque de las Ciencias**

Room B

08.00 – 10.00 | Parallel Symposium

**PS5-61
T5 – 5.4**

Micronutrient Fortification. Science and Strategies for Public Health Improvement in Asia

*Chairs: Takashi Togami, Director, ILSI CHP, Tokyo, Japan
Geoffrey Smith, President, ILSI Southeast Asia Region, Singapore, Singapore*

Welcome Remarks
Takashi Togami, Director, ILSI CHP, Tokyo, Japan

Micronutrients and Food Fortification – Strategic and Practical Issues
Geoffrey L Smith, President, ILSI Southeast Region, Singapore, Singapore

GAIN's Global Strategy on Food Fortification to Improve Public Health – Asia Highlights
Regina Moench-Pfanner, Global Alliance for Improved Nutrition, Singapore, Singapore

Iron-fortified Soy Sauce in China- An Assessment of 10 years of Policy and Business Development
Junshi Chen, ILSI Focal Point China, Beijing, China

Vietnam: Iron-fortified Fish Sauce-Evaluating and Adopting a Successful Model
Le Thi Hop, National Institute of Nutrition, Hanoi, Vietnam

Cambodia: Iron-fortified Fish Sauce- Progress & Development
Theary Chan, Reproductive and Child Health Alliance (RACHA), Pnhom Penh, Cambodia

Philippines: Iron Fortified Rice - Lessons learnt, Opportunities and Challenges
Mario Capanzana, Food and Nutrition Research Institute, Taguig City, Philippines

10.30 – 12.00 | Parallel Symposium

PS5-69
T5 – 5.4

Evaluation of food fortification and biofortification interventions in developing countries using stable isotopes

Chairs: Najat Mokhtar, International Atomic Energy Agency, Vienna, Austria
Warren T. K. LEE, Economic & Social Development Department, FAO, Rome, Italy

Efficacy of Vitamin A in fortified extruded rice in school children in North-Eastern Thailand
Emorn Wasantwisut, Institute of Nutrition, Mahidol University, Bangkok, Thailand

Vitamin A intake in exclusively breastfed babies from mothers consuming daily vitamin a fortified oil during six months
Asmaa eEl Hamdouchi, CNESTEN-Universite IbnTofail, Rabat, Morocco

Use of the deuterated retinol dilution technique to assess total body vitamin A stores in Mexican preschoolers consuming vitamin A-fortified milk
Humberto Astiazaran Garcia, Centro de Investigacion en Alimentacion y Desarrollo (CIAD), Hermosillo, Mexico

A multiple meal study to evaluate human iron absorption from typical Rwandan meals based on beans
Jean Bosco Gahutu, University of Rwanda, Butare, Rwanda

Vitamin A status assessment: setting the scene
Sherry Tanumihardjo, Department of Nutritional Sciences, University of Wisconsin, Madison, WI, USA

Room C

08.00 – 10.00 | Parallel Symposium

PS5-62
T6 – 6.1

Functional properties of proteins of biological and food origin

Chairs: Miquel Moreto, University de Barcelona, Barcelona, Spain
Olga Martinez Augustin, University of Granada, Granada, Spain

Food derived peptides with potential health benefits
RJ Fitzgerald, University of Limerick, Limerick, Ireland

Effects of animal plasma supplements
Miquel Moreto, University of Barcelona, Barcelona, Spain

Anti-inflammatory mechanisms of bioactive milk proteins in the intestine of newborns
Dereck E.W. Chatterton. University of Copenhagen, Copenhagen, Denmark

10.30 – 12.00 | Parallel Symposium

PS5-70
T6 – 6.1**Phytochemicals responsible for the food function, from the chemistry to physiological relevance and human health**

*Chairs: Taiichiro Seki, Nihon University, Fujisawa, Japan
Hitomi Kumagai, Nihon University, Fujisawa, Japan*

Red wine polyphenols and human health
Cristina Andres-Lacueva, University of Barcelona, Barcelona, Spain

Multi-function of gallate for human health
Sue-Joan Chang, College of Bioscience and Biotechnology, National Cheng Kung University, Tainan City, Taiwan

Garlic-derived compounds for the prevention of lifestyle-related diseases
Taiichiro Seki, College of Bioresource Sciences, Nihon University, Fujisawa, Japan

Physiological functions of a flavor component from shiitake mushrooms
Hitomi Kumagai, College of Bioresource Sciences, Nihon University, Fujisawa, Japan

**Machuca and Albeniz Rooms
(Machuca)**

08.00 – 10.00 | Parallel Symposium

PS5-63A
T7 – 7.4**Regulation versus innovation (IUFOST)**

*Chairs: Ping Fan Rao, President IUFOST, Zhejiang Gongshang University, Hangzhou, China
Vishveshwaraiah Prakash, Council member of IUFOST and IUNS distinguished scientist of CSIR, Mysore, India*

Regulation and Innovation in functional foods
Delia B. Rodriguez-Amaya, International Academy of Food Science and Technology, Campinas, Brasil

Food Regulation and Processing Innovation in Vietnam
Ly Nguyen Binh, Department of Food Technology, College of Agriculture and Applied Biology, Can Tho University, Can Tho City, Vietnam

Advancing novel preservation technologies demands harmonizing international food safety legislation and regulations
Larry Keener, International Product Safety Consultants, Inc. (IPSC), Seattle, Washington, USA

How to work with the food industry to improve the nutritional profiles of processed foods
Nigel Sunley, Sunley Consulting, Johannesburg, South Africa

(Albeniz)

08.00 – 10.00

PS5-63B

Food systems for nutrition and health: growing, shopping, cooking and eating

*Chairs: Mark L. Wahlqvist, Monash University, Melbourne, Australia & National Health Research Institutes, Miaoli County, Taiwan
Agneta Yngve, Örebro University, Örebro, Sweden*

Sustainable and affordable horticulture for healthy communities: African and Asian experiences
Ray-Yu Yang, AVRDC – The World Vegetable Center, Shanhua, Tainan, Taiwan*

Introduction to foodscape studies – what they can do for public health nutrition
Bent Egberg Mikkelsen, Aalborg University, Aalborg, Denmark

Could the Greek Home Garden explain the reduced cardiovascular mortality in elderly greek migrants to Australia?
Catherine Itsiopoulos, La Trobe University, Melbourne, Australia*

Beyond foodscapes –the importance of health geography and the built environment
Agnetta Yngve, Örebro University, Örebro, Sweden

The role of shopping and cooking in the food and health systems of elders
Meei-Shyuan Lee, National Defense Medical Center, Taipei, Taiwan*

Integrating Food and Health with Ecosystems for Human Development
Mark L Wahlqvist, Monash University, Melbourne, Australia & National Health Research Institutes, Miaoli County, Taiwan

(Machuca)

10.30 – 12.00 | Parallel Symposium

PS5-71A
T7 - 7.4

The value of nutrition labelling: Has nutrition labelling reduced any chronic diseases? (IUFoST)

Using South African food companies' nutrition strategies and consumer knowledge, attitudes and practices pertaining to nutrition information to develop guidelines for the promotion of the prevention of chronic diseases of lifestyle
Jane Badham, JB Consultancy, Sandton, South Africa

The Nutrition Facts Table – has Front of Pack Labelling left the back of pack behind?
Mary LAbbe, University of Toronto, Toronto, Canada

Nutrition Labelling in Europe - Effective Guidance Towards More Healthful Food Choices?
Laura Fernandez Celemin, European Food Information Council (EUFIC), Brussels, Belgium

(Albeniz)

10.30 – 12.00 | Parallel Symposium

PS5-71B
T7 - 7.4

**IUNS Task Force
Urbanization, Climate Change and Nutrition Insecurity**

*Chairs: Godwin D. Ndossi, Tanzania National Health Research Forum, Dar Es Salaam, Tanzania
Osman Galal, University of California, Los Angeles, USA*

Nutrition and food security: a climatological perspective
Tom Beer, Centre For Australian Weather & Climate Research, Aspendale, Australia

Effects of climate change on the food supply chain and their impact on urban nutrition security
Albert E. J. McGill, International Union of Food Science and Technology (IUFoST), Melbourne, Australia

Influence of urbanization on climate change and nutrition insecurity
Tola Atinmo, Dept of Human Nutrition, University of Ibadan, Ibadan, Nigeria

Urbanization and food security: income and non-income dimensions
Cecilia Tacoli, International Institute for Environment and Development, London, UK

Ecosystem approaches to nutrition and health security: urbanised communities
 Mark L Wahlqvist, Monash University, Melbourne, Australia & National Health Research Institutes,
 Miaoli County, Taiwan

Room D
08.00 – 10.00 | Parallel Symposium

PS5-64
T8 -8.2

Improving food at work: an international approach and some national experiences

Chairs: Eduardo Atalah Samur, Faculty of Medicine, University of Chile, Santiago, Chile
Fernando Gil, Department of Toxicology, University of Granada, Granada, Spain

Challenges to improve nutrition at workplace in Chile
Eduardo Atalah, Faculty of Medicine, University of Chile, Santiago, Chile

Feeding program at work (PAT) in Brazil
Antonio Neto, President of the Union of Workers of Computing and Information Technology, Sao Paulo, Brazil

Challenges to improve nutrition at workplace in Spain
Jordi Suriñach, Research Institute of Applied Economics (IREA), Barcelona, Spain

Good practice of nutrition program at workplace: Spain experience
Monica Garcia, Orange Society, Pozuelo de Alarcon, Spain

10.30 – 12.00 | Parallel Symposium

PS5-72
T8 -8.2

The shift toward a modern industrialized food system, potential implications for nutrition-related chronic diseases and for public policies

Chairs: Antonio Guadix, Department of Engineering, University of Granada, Granada, Spain
Carlos Monteiro, Universidade De São Paulo, São Paulo, Brazil

Evolution from traditional food systems to the globalizing food system: a possible mismatch between human diet and health?
Jean-Claude Moubarac, University of Sao Paulo, Sao Paulo, Brazil

The new role of industrial food processing in food systems: impact on nutrition and health – a perspective from the South
Carlos Monteiro, University of Sao Paulo, Sao Paulo, Brazil

The modern global food system—its evolution and current status and how it is related to our health
Barry Popkin, University of North Carolina, Chapel Hill, NC, USA



10th International Food Data Conference

September, 12th - 14th
Machado Room

<http://www.ifdc2013.com/>

**NUTRIMENTHE Final International Conference
"The Effect of Diet on the Mental Performance of Children"**

September, 13th - 14th
Machuca & Albeniz Rooms

<http://www.barcelocongresos.com.es/NUTRIMENTHE2013/>

**Union Internationale de la Boulangerie et de la Boulangerie-Pâtisserie (UIB) Meeting.
Bread and Health**

September, 14th - 15th
Andalucia Rooms

Saturday, September 14th

Facultad de Farmacia de Granada. Campus Cartuja

Satellite symposium of the Iberoamerican Association of faculties and Schools of Nutrition (AIFEN)
Simposio satélite de la Asociación Iberoamericana de Facultades y Escuelas de Nutrición (AIFEN)

09.00 – 14.30

Where do we stand and where do we go in theaching nutrition
Dónde estamos y hacia dónde vamos en la enseñanza de la nutrición

Chair/Moderadora:

Pilar Cervera

Honorary President of the Spanish Conference of Deans and Directors of Centers Teaching the Degree of Human Nutrition and Dietetics, Barcelona, Spain

Presidenta de honor de la Conferencia Española de Decanos y Directores de Centros que imparten la titulación de Nutrición Humana y Dietética, Barcelona, España

09.00 – 09.15

Presentation of the Iberoamerican Association of Faculties and Schools of Nutrition (AIFEN)

Presentación de la Asociación Iberoamericana de Facultades y Escuelas de Nutrición (AIFEN)

Luis Recalde

Dean of the Faculty of Pharmacy, University of Granada, Granada, Spain

Decano de la Facultad de Farmacia, Universidad de Granada, Granada, España

09.15 – 09.45

Presentation of FINUT

Presentación de la FINUT

Angel Gil

President of the Iberoamerican Foundation of Nutrition (FINUT), Granada, Spain

Presidente de la Fundación Iberoamericana de Nutrición (FINUT), Granada, España

09.45 – 10.15

A vision from Argentina

Una visión desde Argentina

Marcela Leal

Director of Nutrition Degree, University of Maimonides, Buenos Aires, Argentina

Directora de la Carrera de Nutrición, Universidad Maimonides, Buenos Aires, Argentina

10.15 – 10.45

A vision from Brazil

Una visión desde Brasil

Josefina Bressan

Lecturer in degree and master's degree in Nutrition, Univeristy of Viçosa, Viçosa, Brazil

Profesora de Grado y Posgrado en Nutrición, Universidad Federal de Viçosa, Viçosa, Brasil

10.45 - 11.15

A vision from Colombia

Una visión desde Colombia

Berta Lucia Gaviria Gomez

Director of the School of Nutrition and Dietetics at the University of Antioquia, Colombia

Directora de la Escuela de Nutrición y Dietética de la Universidad de Antioquia, Colombia

11.15 – 11.45

Coffee Break

Descanso Café

11.45 – 12.15

A vision from Chile

Una visión desde Chile

Maria Angelica Gonzalez

*Responsable del Programa de Mejoramiento de la Calidad de Educación Superior (MECESUP),
Universidad de Bío-Bío, Biobío, Chile*

12.15 – 12.45

A vision from Mexico

Una visión desde México

Jose Luis Castillo

*President of the Mexican Association of Faculties of Nutrition, Mexico
Presidente de la Asociación Mexicana de Facultades de Nutrición, México*

12.45 – 13.15

A vision from Portugal

Una visión desde Portugal

Maria Daniel Vaz

*Director of Faculty of Food and Nutrition, University of Porto, Porto, Portugal
Directora de la Faculdade de Ciências da Nutrição y Alimentação, Universidad de Porto, Porto, Portugal*

13.15 – 13.45

A vision from Spain

Una visión desde España

Iva Marques

*President of the Spanish Conference of Deans and Directors of Centers Teaching the Degree of
Human Nutrition and Dietetics, Spain
Presidenta de la Conferencia Española de Decanos y Directores de Centros que imparten la titulación
de Nutrición Humana y Dietética, España*

13.45 – 14.30

Discussion and approval of the “Consensus document on Teaching Nutrition”

Debate y aprobación del documento “Consenso sobre la enseñanza de la nutrición

Antonio Sanchez Pozo

*University of Granada, Granada, Spain
Universidad de Granada, Granada, España*

IUNS – Task Force Diet, Nutrition and Longterm Health seminar

SEMINAR ROOMS 6 AND 7

09.00 – 13.30

Workshop on normative indicators of child health and nutrition – One size fits all?

Chair: Hinke Haisma, University of Groningen, Groningen, The Netherlands

Members:

Elmadfa Ibrahim, President IUNS

Ricardo Uauy, INTA-Chile, LSHTM

Invitees:

Grethel Peltó, Cornell University, New York, USA

Aravinda Guthupali, University of Southampton, Southampton, UK

Inge Hutter, University of Groningen, Groningen, The Netherlands

Ajay Bailey, University of Groningen, Groningen, The Netherlands

Pieter Boele, University of Groningen, Groningen, The Netherlands

Machted Huber

Victor Owino

Suzanne Filteau

Sridhar Venkatapuram

Enrica Chiappero-Martinetti
Margaret Armar-Klemesu
Kenda Cunningham
Isabelle Romieu
Sepideh Youzafsaideh

Sunday, September 15th

Sciences Park of Granada
Parque de las Ciencias de Granada

Workshop on mediterranean diet and sensory for nutrition professionals. Educating mediterranean styles
Taller de educación nutricional, dieta mediterránea y sensorialidad para profesionales de la nutrición.
Educando estilos mediterráneos

09.00 – 14.30

09.00 – 09.30

Inaugural Conference
Conferencia Inaugural
Lluís Serra-Majem
University of Las Palmas, Las Palmas, Spain
Universidad de Las Palmas, Las Palmas, España

09.30 – 10.30

Chair/Moderador:
Emilio Martínez
University of Granada, Granada, Spain
Universidad de Granada, Granada, España

Mediterranean diet, nutritional education issues, sensory and kitchen
Dieta Mediterránea, aspectos de la educación nutricional, sensorialidad y cocina
Anna Bach
Mediterranean Diet Foundation, Barcelona, Spain
Fundación Dieta Mediterránea, Barcelona, España
Marga Serra
University Ramon Llull, Open University of Catalonia, Barcelona, Spain
Universitat Ramon Llull, Universitat Oberta de Catalunya, Barcelona, España
Juan Andres R. Morilla
Restaurant “El Claustro”, Granada, Spain
Restaurante “El Claustro”, Granada, España

10.30 – 11.00

Break/Descanso

11.00 – 13.00

Workshops: They will be in this order:
Talleres: Se realizarán en este orden:

From vine to wine. Mosto and alcohol-free wine
De la vid al vino. Mosto y vino desalcoholizado
Marga Serra
University Ramon Llull, Open University of Catalonia, Barcelona, Spain
Universitat Ramon Llull, Universitat Oberta de Catalunya, Barcelona, España

From wheat to bread. Bread's simple. Designation of origin: Alfacar
Del trigo al pan. Cata de panes. D.O. Pan de Alfacar
Andreu Prados
University of Barcelona, Barcelona, Spain
Universidad de Barcelona, Barcelona, España

From olive tree to oil. Oil's simple. Designation of origin: Priego de Cordoba
Del olivo al aceite. Cata de aceites. Aceite de DO Priego de Córdoba

Emilio Martinez

University of Granada, Granada, Spain

Universidad de Granada, Granada, España

Sensory educational cooking workshop: vegetables, yogurt and nuts

Taller de cocina educativa sensorial: verduras, hortalizas y yogurt

Juan Andres R. Morilla

Restaurant "El Claustro", Granada, Spain

Restaurante "El Claustro", Granada, España

13.00 - 13.30

Conclusions/*Conclusiones*

Marga Serra

University Ramon Llull, Open University of Catalonia, Barcelona, Spain

Universitat Ramon Llull, Universitat Oberta de Catalunya, Barcelona, España

Anna Bach

Mediterranean Diet Foundation, Barcelona, Spain

Fundación Dieta Mediterránea, Barcelona, España

Andreu Prados

University of Barcelona, Barcelona, Spain

Universidad de Barcelona, Barcelona, España

13.30 - 14.30

Mediterranean "tapas" and wine's simple

Degustación de tapas mediterráneas y maridaje de vinos

Juan Andres R. Morilla

Restaurant "El Claustro", Granada, Spain

Restaurante "El Claustro", Granada, España

Place/Lugar:

"El Claustro" Restaurant/*Restaurante El Claustro*

Address/Dirección:

Gran Via de Colon 31, Granada

Additional information about the Workshop:

The price of this Workshop is 60 €, which includes workshop's materials and Mediterranean tapa's combinations at "El Claustro" restaurant.

The incomes for the workshop "Mediterranean diet and sensory" should be done by entering the following account number: IBAN ES42 2100 0378 4901 0127 9985 (remember to indicate the name, email address, job and country when you do so).

The income of the money regarding to the workshop is independent of the price of the congress.

Languages: Spanish and English. - The main goal of this workshop is having a meeting and, starting from this, creating small groups in order to exchange experiences and initiatives.

Sponsored by:

Wine in Moderation, Bodegas Torres and Fundacion para la investigacion del vino y la Nutricion (FIVIN)

Granada Congress Center

UIB satellite symposium

ROOM ANDALUCIA

16.00 - 19.00

Bread and Health

Chair: Angel Gil, University of Granada, Granada, Spain

Benefits of whole grain cereals and bread
Ibrahim Eldmafa, University of Vienna, Vienna, Austria

Glycaemic index of different types of bread
Angel Gil, University of Granada, Granada, Spain

Relationship between bread consumption, body weight and abdominal fat distribution
Luis Serra-Majem, University of Las Palmas, Las Palmas, Spain

Thrive & Alive satellite symposium

MACHADO AND PICASSO ROOMS

09.00 – 13.00 **Testing innovations to improve infant and young child feeding practices in low-income populations: research findings from intervention trials funded by the Alive & Thrive grants program**

09.00 – 09.15

Welcome and Introductions:

Kathryn Dewey, University of California, California, USA
Elen Piwoz, Bill & Melinda Gates Foundation, Seattle, USA

09.15 – 10.45

Complementary Feedings:

Chair: Kathryn Dewey, University of California, California, USA

A novel sustainable complementary feeding product for infants and young children:
Caterpillar Cereal (Democratic Republic of the Congo)
Melissa Bauserman, University of North Carolina, Chapel Hill, USA

Complementary food security in an urban slum (Haiti)
Lora Iannotti, Washington University in St. Louis, St. Louis, USA

Using scripted messages in radio and vaccination program to improve beliefs, attitudes,
and behaviors for complementary feeding (Mexico)
Eva Monterrosa, University of South Carolina, Chapel Hill, USA

Novel interventions to improve nutrition and health among low birth weight infants in
Bangladesh (Bangladesh)
Sohana Shafique, Hospital for Sick Children, Toronto, Canada

Adding micronutrient powders to an integrated food security and nutrition project to
further reduce malnutrition (Nepal)
Pooja Pandey, Helen Keller International, Kathmandu, Nepal
Akoto Osei, Helen Keller International Asia Pacific Regional Office, Phnom Penh, Kingdom of Cambodia

General discussion of complementary feeding innovations

10.45 – 11.00

Break

11.00 – 12.30

Breast Feedings:

Chair: Bineti Vitta, University of California, California, USA

Use of cell phone technology for breastfeeding promotion and counseling

Effectiveness of a Baby-Friendly Hospital-based mothers' support group and a cell-phone
based peer support program in supporting exclusive breastfeeding in an urban Kenyan
community (Kenya)

Elizabeth Kamau, Egerton University, Nairobi, Kenya

Effectiveness of cell phone counseling to improve breast feeding indicators (India)
Archana Patel, Lata Medical Research Foundation, Nagpur, India

Linking microcredit, technology, and promotion of IYCF breastfeeding guidelines in Bauchi State (Nigeria)
Valerie Flax, University of North Carolina, Chapel Hill, USA

Other innovative approaches for breastfeeding promotion and support

An interventional study on health education to promote fathers' involvement in breastfeeding in rural communes (Vietnam)
Bich Tran Huu, Hanoi School of Public Health, Hanoi, Vietnam

Improving IYCF through strengthening the capacity of community volunteers and traditional birth attendants (Bangladesh)
Shamim Hayder Talukder, Eminence Center for Health and Development Intelligence, Dhaka, Bangladesh

Comparison of two clinic-based interventions to promote early initiation and exclusive breastfeeding through 6 months after birth (Democratic Republic of Congo)
Marcel Yotebieng, University of North Carolina, Chapel Hill, USA

12.30 – 13.00

General Discussion

Chair: Kathryn Dewey, University of California, California, USA

13.00

Adjourn

Daniel & Nina Carasso Foundation satellite symposium

MACHADO AND PICASSO ROOMS

13.30 – 18.00 Sustainable food and diets: From theory to evidence – Based successful practice

13:30-15:00

The sustainable food and diets as a coherent and comprehensive multi sectoral bridging concept

Chair: Barbara Burlingame, Food & Agriculture Organization of the United Nations, Roma, Italy

13:30 – 13:50

The sustainable food and diets

Barbara Burlingame, Food & Agriculture Organization of the United Nations, Roma, Italy

13:50-14:10

Global state of the art in high income countries

Jennie Macdiarmid, Aberdeen University, Aberdeen, UK

14:10-14:30

Global state of the art in low and middle income countries

Emile Frison, Bioversity International, Roma, Italy

14:30-15:00

Attendance questions / answers

15:00-15:30

Coffee break

15:30-17:00

Evidence-based successful practices: Sustainable food and diets in the field

Chair: Lawrence Haddad, Sussex University, Brighton, UK

15:30-16:00

Perspectives and expectations in food and diets policies

Tim Lang, London University, London, UK

16.00-16.30

Perspectives and expectations in Africa food and diets policies

Joyce Kinabo, Sokoine University of Agriculture, Morogoro, Tanzania

16.30-17.00

Case studies from the field: engaging communities

Jessica Fanzo, Columbia University, New York, USA

17.00-18.00

Roundtable, Research gaps & policy challenges

Chair: Lawrence Haddad, Sussex University, Brighton, UK

Speakers: Thomas Allen, Bioversity International, Roma, Italy

Tim Johns, Mc Gill University, Montreal, Canada

Eileen Kennedy, Tufts University, Boston, USA

Sarah E. Lewis, The Sustainability Consortium, Arkansas, USA

Tony Long, WWF European Policy Office, Brussels, Belgium

Forum ESPEN

LORCA AUDITORIUM

09.00 – 14.00

ESPEN Forum on clinical malnutrition

09.00 – 09.15

Welcome and introduction

Miguel Leon, Department of Medicine, Medical School, Complutense University, Madrid, Spain

Angel Gil, University of Granada, Granada, Spain

09.15 – 09.50

Malnutrition in health care Institutions: Lessons from nutrition day

Michael Hiesmayer, Medical University of Vienna, Vienna, Austria

09.50 – 10.25

From screening tools to nutritional intervention strategies

Jens Kondrup, Rigshospitalet University Hospital, Copenhagen, Denmark

10.25 – 11.00

Nutritional intervention for the old and fragile adult

Tommy Cederholm, Uppsala University, Uppsala, Sweden

11.00 – 11.30

Coffee Break

11.30 – 12.05

EPAAC: Nutrition therapy for the oncologic patient

Alessandro Laviano, Sapienza University, Rome, Italy

12.05 – 12.40

Cost effectiveness of nutritional interventions to prevent and treat clinical malnutrition

Elia Marinos, University of Southampton, Southampton, UK

12.40 – 13.15

Policy changes to fight against clinical malnutrition

Olle Ljungqvist, Örebro University Hospital, Örebro, Sweden

13.15 - 13.45
General discussion

13.45 - 14.00
ESPEN-IUNS Declaration of fighting against clinical malnutrition

Forum ESPGHAN: Committee on nutrition

LORCA AUDITORIUM

14.30 – 18.30 Do toddlers have special nutritional needs?

Chair: Iva Hosjak, Children's Hospital Zagreb, Zagreb, Croatia

14.30 – 14.50
Which growth charts to be used for toddlers
Dominique Turk, Jeanne de Flandre Children's Hospital, Lille University Faculty of Medicine, Lille, France

14.50 – 15.10
Lipid requirements from 1-3 years of age
Tamas Decsi, Department of Paediatrics, University of Pecs, Pecs, Hungary

15.10 – 15.30
Do toddlers require vitamin D supplements?
Christian Braegger, University Children's Hospital, Zurich, Switzerland

15.30 – 15.50
Do toddlers need additional iron?
Magnus Dömelhof, Department of Paediatrics, Umea University, Umea, Sweden

15.50 – 16.10
Discussion

16.10 – 16.30
Coffee Break

Chair: Christian Molgaard, Department of Nutrition, Exercise and Sports, Faculty of Science, University of Copenhagen, Frederiksberg C, Denmark
Mary Fewtrell, MRC Childhood Nutrition Research Centre, UCL Institute of Child Health, London, UK

16.30 – 16.50
Recent developments in folate and vitamin B12 requirements
Cristina Campoy, University of Granada, Granada, Spain

16.50 – 17.10
Protein requirements of toddlers
Kim F. Michaelsen, Department of Human Nutrition, University of Copenhagen, Copenhagen, Denmark

17.10 – 17.30
Do toddlers require GUM?
Walter A. Mihatsch, Department of Paediatrics, Munich Municipal Hospitals Harlaching, Munich, Germany

17.30 – 17.50
Discussion

17.50 – 18.10

Recommendations and future research questions for European toddler nutrition

Hans van Goudoever, VU University Medical Center and Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands

18.10 – 18.30

Final conclusions

Hans van Goudoever, VU University Medical Center and Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands

Walter Mihatsch, Department of Paediatrics, Munich Municipal Hospitals Harlaching, Munich, Germany

Satellite symposium on giving iron to young children

FALLA AUDITORIUM

11.30 – 13.30

Maternal and child health integrated program (MCHIP) satellite symposium

Chairs: Francesco Branca, World Health Organization (WHO), Geneva, Switzerland

Rae Galloway, Maternal and Child Health Integrated Program, Washington DC, USA

11.30 - 11.40

Opening remarks

Francesco Branca, World Health Organization (WHO), Geneva, Switzerland

Rae Galloway, Maternal and Child Health Integrated Program, Washington DC, USA

11.40 - 11.55

Does iron supplementation benefit development in children younger than two years?

Susan Walker, University of the West Indies, Mona Campus, Jamaica

11.55 - 12.10

The effect of giving micronutrient powders with iron and zinc to young children in Pakistan

Zulfiqar Ahmed Bhutta, the Aga Khan University, Karachi, Pakistan

12.10 - 12.25

Giving iron to young children in Tanzania has no effect on the frequency of malaria cases

Clara Menendez, University of Barcelona, Barcelona, Spain

12.25 - 12.40

The risks of giving young children iron in developing countries and possible mechanisms

Robert Black, Johns Hopkins Bloomberg School of Public Health, Maryland, USA

12.40 - 12.55

The specific role of iron in early brain development

Michael Georgieff, University of Minnesota, Minneapolis, USA

12.55 - 13.20

Questions, answers and discussion

13.20 - 13.30

Final remarks

Francesco Branca, World Health Organization (WHO), Geneva, Switzerland

Rae Galloway, Maternal and Child Health Integrated Program, Washington DC, USA

**Nutrition Innovation Lab. (Asia and Africa),
Friedman School of Nutrition Science and Policy Tufts University satellite symposium**

FALLA AUDITORIUM

14.00 – 18.00 Research on agriculture, health and nutrition

*Chairs: Patrick Webb, Nutrition Innovation Laboratory, Asia, Tufts University, Medford, USA
Jeffrey K. Griffiths, Nutrition Innovation Laboratory, Africa, Tufts University, Medford, USA*

Opening remarks

Praveen Mishra, Secretary of Health, Ministry of Health and Population, Government of Nepal, Kathmandu, Nepal

Key Note Presentations

Addressing Nutrition through Integrated Policy in Nepal

Raj Kumar Pokharel, Child Health Division, Ministry of Health and Population, Government of Nepal, Kathmandu, Nepal

Addressing Nutrition through Agriculture in Uganda

Bernard Bashaasha, College of Agriculture, Makerere University, Kampala, Uganda

Part 1: Nutrition Innovation Laboratory Research Agenda

Framing the Research Questions in linking agriculture- health and nutrition - Asia and Africa

Patrick Webb, Nutrition Innovation Laboratory, Asia, Tufts University, Medford, USA

Emerging Research Issues in Agriculture, Nutrition, Health- Asia and Africa

Jeffrey K. Griffiths, Nutrition Innovation Laboratory, Africa, Tufts University, Medford, USA

Discussion

Part 2: Studying Effectiveness and Process

Nutrition Innovation Laboratory Research Activities in Nepal and Uganda (Findings of Process Research)

Shibani Ghosh, Nutrition Innovation Laboratory Asia and Africa, Tufts University, Medford, USA

PoSHAN Nepal: Analysis of First Household Panel Survey

Rolf Klemm, Nutrition Innovation Laboratory, Asia, Johns Hopkins School of Public Health, Baltimore, USA

Nutrition Innovation Lab Uganda: Analysis of First Household Panel Survey

Bernard Bashaasha, Nutrition Innovation Laboratory, Africa, Makerere University, College of Agriculture, Kampala, Uganda

Discussion

ANFABRA satellite symposium

ROOM B

09.00 – 11.00 Public health nutrition – Healthy lifestyles promotion

Chair: Gregorio Varela, Spanish Nutrition Foundation (FEN), Madrid, Spain

The influence of the nutrition in a healthy life style

Pilar Riobo, Jimenez Diaz-Capio Hospital, Madrid, Spain

Physical activity: core of a healthy life style

Marcela Gonzalez-Gross, Sports Nutrition and Physiology, Madrid, Spain

Social and mental wellbeing – other aspects to be considered related to a healthy life style
Gregorio Varela, Spanish Nutrition Foundation (FEN), Madrid, Spain

Interventions and studies developed in order to prevent obesity
Jean Michel Borys, Epode European Network, Paris, France

Spanish Ministry of Agriculture, Food and Environment satellite symposium
Simposio satélite del Ministerio de Agricultura, Alimentación y Medio Ambiente del Gobierno de España

ROOM B

12.30 – 13.30 Fish: Health benefits versus potential risks do not justify limiting consumption
Los beneficios para la salud del pescado superan los posibles riesgos, por lo que no está justificado limitar su consumo
Angel Gil
 University of Granada, Granada, Spain
Universidad de Granada, Granada, España

TERRACE 1st FLOOR

13.30 – 14.30 Commented tasting of fish products
Degustación comentada de productos pesqueros
Chef Juan Andres Morilla
 First Andalusian Chef being a finalist of “Bocuse d’Or” professional cooking competition and best Chef of Spain in 2009, Granada, Spain
Primer Chef Andaluz finalista del Concurso de Chefs “Bocuse d’Or” y mejor Chef de España en 2009, Granada, España



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SPRING Project JSI Research & Training Institute, Inc. with partners, Helen Keller International, the Manoff Group, Save the Children and the International Food Policy Research Institute

ROOM B

14.00 – 18.00 **MIYCN: Current headlines in maternal, infant and young child nutrition**

14.00 - 14.10
Welcome and Opening Remarks
Christian Winger, USAID/SPRING, Virginia, USA

14.10 – 15.10
Panel of experts
Chair: Karin Lapping, Save the children, Washington DC, USA

Women’s nutrition
Reynaldo Martorell, Emory University, Atlanta, USA

Infant and young child feeding
Kenneth H. Brown, University of California, California, USA

15.10 – 17.40
Round table discussions
Chair: Agnes Guyon, USAID/SPRING, Virginia, USA

The right foods at the right times: An evidence-based approach to a healthy start at life
Jane Badham, JB Consultancy, Johannesburg, South Africa

Fortified foods for women's nutrition

Kathryn Dewey, University of California, California, USA

Country adaptation of the essential nutrition actions: An overview

Jennifer Nielsen, Helen Keller International, USA

Addressing malnutrition in the urban context

Joy Miller del Rosso, Save the Children, Washington DC, USA

Adolescent nutrition

Reynaldo Martorell, Emory University, Atlanta, USA

Linking prevention and community-based management of acute malnutrition (CNAM)

Kenneth H. Brown, University of California, California, USA

Strengthening anemia control and prevention strategies

Manisha Tharaney, USAID/SPRING, USA

Innovating with communication technologies: Pushing new buttons for behaviour change

Peggy Koniz-Booher, USAID/SPRING, Virginia, USA

Feed-the-future's progress toward linking agriculture and nutrition

Lidan Du, USAID/SPRING, Virginia, USA

The latest news on infant feeding and HIV

Nigel Rollins, World Health Organization (WHO), Geneva, Switzerland

Wrap-up and conclusion

Victoria Quinn, Helen Keller International, Washington DC, USA

Marcia Griffiths, The Manoff Group, Washington, USA

The Global Iodine Nutrition Network (ICCIDD) satellite symposium Driving successful IDD control programs: New findings from an international task force

ROOM C

14.30 - 18.00 Achieving successful prevention and control of Iodine Deficiency Disorders (IDD): Findings and programmatic implications from an international task force

14.30 – 14.45

Welcome and introduction to the iodine task force

Chair: Venkatesh Mannar, Micronutrient Initiative, Ottawa, Canada

Co-Chair: Michael Zimmermann, ICCIDD Global Network, Zurich, Switzerland

Overview of Iodine deficiency disorders. Current status of IDD and USI in 2013

Background on the iodine task force: Opportunities to revise and update program guidance in three steps (1: Review, 2: Revision of guidelines, 3: Dissemination and application)

14.45 – 15.00

Reflections on universal salt iodization strategy design and implementation

Landscape analyses – Key issues in universal salt iodization strategy implementation

Arnold Timmer, UNICEF, New York, USA

15.00 – 16.00

Key results and observations of the iodine task force

Chair: Venkatesh Mannar, Micronutrient Initiative, Ottawa, Canada

Iodization standards

Lucie Bohac, Micronutrient Initiative, Ottawa, Canada

Iodine nutrition status

Michael Zimmermann, ICCIDD Gloval Network, Zurich, Switzerland

Household and food industry salt

Pieter Jooste, South African Medical Research Council, Cape Town, South Africa

Other iodine strategies

Frits van der Haar, Emory University School of Public Health, Atlanta, USA

Indicators of progress

Jonathan Gorstein, University of Washington, Washington DC, USA

16.00 – 16.30

Q & A – Discussion

16.30 – 17.30

Examples of practice – Implications for programming to achieve optimal iodine nutrition

Chair: Venkatesh Mannar, Micronutrient Initiative, Ottawa, Canada

Legal and regulatory frameworks requirements, roles and responsibilities

Frits van der Haar, Emory University School of Public Health, Atlanta, USA

Role and importance of the salt iodine supply in processed foods

Greg Garrett, Global Alliance for Improved Nutrition, Geneva, Switzerland

Proposed cut-off points for urinary iodine and criteria of what constitutes optimal iodine nutrition – results of UNICEF/ICCIDD multicenter study

Michael Zimmermann, ICCIDD Gloval Network, Zurich, Switzerland

Setting food iodization standards, one size may not fit all country scenarios: factors to consider when setting iodization standards

Lucie Bohac, Micronutrient Initiative, Ottawa, Canada

Collaboration of the iodine task force to global normative work

Juan Pablo Peña-Rosas, World Health Organization (WHO), Geneva, Switzerland

17.30 – 17.55

Q & A – Discussion

17.55 – 18.00

Wrap-up

Venkatesh Mannar, Micronutrient Initiative, Ottawa, Canada

Forum DOHaD

MACHUCA ROOM

09.00 – 13.00

Nutrition and early life origins of allergic disease

Chairs: Philip Calder, University of Southampton, Southampton, UK

Johan Garssen, Danone & Utrecht University, Utrecht, The Netherlands

09.00 – 09.10

Welcome and introduction

09.10 – 09.45

The epidemiology, immunology, symptomology and early life origins of allergic disease
Robert Boyle, Imperial College London, London, UK

09.45 – 10.20

Micronutrients and allergy risk
Katy Pike, University of Southampton, Southampton, UK

10.20 – 10.55

Is the balance of fatty acids important in determining risk of allergic disease?
Philip Calder, University of Southampton, Southampton, UK

10.55 – 11.15

Break

11.15 – 11.50

Nutrition, gut microbiota and allergy risk
Maria Carmen Collado, University of Turku, Turku, Finland and IATA-CSIC, Valencia, Spain

11.50 – 12.25

Polyunsaturated fatty acids and childhood allergic disease: Diet or genes?
Berthold Kolezto, Ludwig Maximilians University, Munich, Germany

12.25 – 13.00

Q & A and round table discussion

Food Aid Quality Review (FAQR) - In Honour of Dr. Nevin Scrimshaw
Tufts University's Food Aid Quality Review, World Food Programme, and the Nevin Scrimshaw
International Nutrition Foundation
Support for the symposium is provided by USAID's Office of Food for Peace

ALBENIZ ROOM

09.00 – 13.30 **Food Aid Quality Review (FAQR) symposium: What works in prevention and treatment of moderate acute malnutrition: A systematic review of meta-analyses**

08.30 – 09.00

Coffee, continental breakfast

09.00 – 09.15

Dedication to Nevin Scrimshaw
Irwin Rosenberg, Tufts University, Boston, USA

09.15 – 09.45

Introduction to the systematic reviews and presentation of REFINE
Patrick Webb, Tufts University, Boston, USA
Saskia DePee, World Food Programme, Rome, Italy

09.45 – 10.30

Findings and methods used by 2013 lancet series on nutrition
Lindsey Lenters, The Hospital for Sick Children, Toronto, Canada

10.30 – 11.15

Findings and methods used by authors of Cochrane Review - "Specially formulated foods for treating children with acute moderate malnutrition in low- and middle-income countries"
Marzia Laccnerini, WHO Collaborating Centre for Maternal and Child Health, Trieste, Italy

11.15 – 11.45
Break (w/food)

11.45 – 12.30
Findings and methods used by FAQR team-“Systematic review of food aid interventions for the prevention and treatment of moderate malnutrition”
Denis Moorthy, Tufts University, Boston, USA

12.30 – 13.15
Panel of discussants: Comparison of systematic reviews and policy guidance
Irwin Rosenberg, Tufts University, Boston, USA
Saskia Pee, World Food Programme, Rome, Italy
Lindsay Allen, US Department of Agriculture & University of California, Davis, USA

13.15 – 13.30
Gaps, waysforward, and conclusions
Patrick Webb, Tufts University, Boston, USA

World Bank Costing Scaling up Nutrition satellite symposium

MACHUCA AND ALBENIZ ROOM

14.00 – 14.15 **Scaling up nutrition – What will it cost at country level?**
Developing costed scale-up plans in-countries
Chair: Meera Shekar, The World Bank, Washington DC, USA
Ellen Piwoz, Bill and Melinda Gates Foundation, New Seattle, USA

14.00 – 14.30
Session 1: Costing and developing scale-up plans

14.00 – 14.10
Welcome
Ellen Piwoz, Bill and Melinda Gates Foundation, New Seattle, USA

14.10 – 14.30
Overview of SUN Costing at global levels: Why, What and How?
Meera Shekar, The World Bank, Washington DC, Seattle, USA

14.30 – 14.45
A Costed Scale-up Plan for Nigeria
Kelechi Ohiri, Minister of State for Health, Abuja, Nigeria

14.45 – 15.00
A Strategic Plan of Action for Nutrition in Nigeria
Chris Osa Isokpunwu, Nutrition Federal Minister of Health, Abuja, Nigeria

15.00 – 15.15
A Costed Scale-up Plan for Togo
Mouawiyatou Bouraima, Ministry of Health, Lomé, Togo

15.15 – 15.30
Discussion

15.30 – 15.45
Bio-break

15.45 – 17.30
Session 2: Future Considerations for costing and financing nutrition

15.45 – 16.45

Moderated panel discussion on future considerations:

Implications for national scale-up plans?

Obey Assery, Prime Minister's office, Dodoma, Tanzania

Prospective costing – the case of CMAM

Carol Medlin, Children's Investment Fund Foundation, London, UK

Fiscal space analyses in Nigeria: What does it mean for nutrition?

Robert Hecht, Results for Development, Washington DC, USA

Costing considerations and issues for nutrition-sensitive interventions

Shawn Baker, Bill and Melinda Gates Foundation, New Seattle, USA

16.45 – 17.00

A new Catalytic Financing Facility for Nutrition

Augustin Flory, Children's Investment Fund Foundation, London, USA

17.00 – 17.20

Discussion

17.20 – 17.30

Closing comments

Ellen Piwoz, Bill and Melinda Gates Foundation, New Seattle, USA

Forum SLAN

ROOM D

09.00 – 13.30

The double burden of undernutrition and obesity in Latin America: Where do we stand and where do we go?

Chairs: Juan Rivera, National Institute of Public Health (INSP), Cuernavaca, Mexico

Eduardo Atalah, University of Chile, Santiago de Chile, Chile

Part I

Evidence about the possible causes and consequences of this double burden, including the association between early undernutrition and future risk of obesity and chronic diseases, throughout the life course and the possible actions for the prevention of the double burden

Cesar Victoria, Universidad Federal de Pelotas, Pelotas, Brazil

Questions and Comments

Part II

Presentation of results from a Systematic Review of the peer review literature on the double burden of undernutrition and obesity in Latin America

Mathew Gillman, Harvard Pilgrim Health Care Institute, Boston, USA

Questions and Comments

Part III

Country presentations of the magnitude and distribution of the double burden and the degree to which policies and programs incorporate the double burden as part of their scope and objectives

Argentina

Esteban Carmuega, Centro de Estudios sobre Nutricion Infantil Dr. Alejandro O'Donnell (FESNI), Buenos Aires, Argentina

Brasil

Wolney Conde, University of Sao Paulo, Sao Paulo, Brasil

Chile

Eduardo Atalah, University of Chile, Santiago de Chile, Chile

Colombia

Olga L. Sarmiento, University of Los Andes, Bogota, Colombia

Questions and Comments

Break

Cuba

Manuel Hernandez, Institute of Nutrition, La Havana, Cuba

Ecuador

Wilma Freire, Ministerio de Salud Pública, Quito, Ecuador

Guatemala

Manuel Ramirez-Zea, Research Center for the Prevention of Chronic Diseases (INCAP), Guatemala City, Guatemala

Mexico

Juan Rivera, National Institute of Public Health (INSP), Cuernavaca, Mexico

Questions and Comments

Break

Peru

Nelly Zavaleta, Instituto de Investigacion Nutricional, Lima, Peru

Uruguay

Cecilia Severi, University of the Republic (UdelaR), Montevideo, Uruguay

Venezuela

Mercedes Lopez de Blanco, Fundacion Bengoa, Caracas, Venezuela

Questions and Comments

Conclusions

Juan Rivera, National Institute of Public Health (INSP), Cuernavaca, Mexico

Eduardo Atalah, University of Chile, Santiago de Chile, Chile

IMTF workshop

ROOM D

14.00 – 18.00

Update on the management of severe malnutrition

Chair: Alan Jackson, International Malnutrition Task Force, UK

Co-chair: Tahmed Ahmed, International Malnutrition Task Force, Dhaka, Bangladesh

14.00 – 14.10

Welcome

Alan Jackson, International Malnutrition Task Force, UK

14.10 – 14.35

The new WHO treatment recommendation

Zita Weise Prinzo, World Health Organization (WHO), Geneva, Switzerland

14.35 – 15.00

Scaling-up treatment of SAM in the Asian context

Tahmeed Ahmed, International Malnutrition Task Force, Dhaka, Bangladesh

15.00 – 15.25

Progress in addressing malnutrition in Latin America

Ricardo Uauy, Instituto de Nutricion y Tecnologia de Alimentos, Santiago, Chile

15.25 – 15.50

Civil society action and the movement for scaling up nutrition

Sultana Khanum, SUN Civil Society Alliance, Dhaka, Bangladesh

15.50 – 16.15

Coffee Break

16.15 – 16.40

E-learning to improve the management of SAM

Sunhea Choi and Trevor Pickup, University of Southampton, Southampton, UK

16.40 – 17.05

RUTFs: Risks and opportunities of local production at scale

Jeya Henry, Singapore Institute for Clinical Sciences, Singapore, Republic of Singapore

17.05 – 17.30

Capacity building for management of acute malnutrition

Paul Amuna, Association for Nutrition, London, UK

17.30 – 18.00

Discussion

IUNS – Task Force Diet, Nutrition and Longterm Health seminar

SEMINAR ROOMS 6 AND 7

09.00 – 13.30

Workshop on normative indicators of child health and nutrition – One size fits all?

Chair: Hinke Haisma, University of Groningen, Groningen, The Netherlands

Members:

Elmadfa Ibrahim, President IUNS

Ricardo Uauy, INTA-Chile, LSHTM

Invitees:

Grethel Peltó, Cornell University, New York, USA

Aravinda Guthupali, University of Southampton, Southampton, UK

Ajay Bailey, University of Groningen, Groningen, The Netherlands

Pieter Boele, University of Groningen, Groningen, The Netherlands

Mached Huber, Louis Bolk Institute, Zeist, The Netherlands

Victor Owino, University of Kisumu, Kisumu, Kenya

Suzanne Filteau, LSHTM, London, UK

Sridhar Venkatapuram, King's College of London, London, UK

Enrica Chiappero-Martinetti, University of Pavia, Pavia, Italy

Margaret Armar-Klemesu

Kenda Cunningham, LSHTM, London, UK

Isabelle Romieu, IARC, France

Shrinivas Darak, University of Groningen, Groningen, The Netherlands

Sarah Oude Brunink, University of Groningen, Groningen, The Netherlands

Tuesday, September 17th

Forum FELANPE

SEMINARS 3, 4 AND 5

08.00 – 10.30 Current situation, challenges and perspectives of clinical nutrition in Latin America*Chair: Ruben Gustavo Kliger, President of FELANPE, Argentina**Co-Chair: Alfredo Matos, Past-President of FELANPE, Universidad de Panama, Panama**Current topics in nutritional support of the critical patient (Tópicos en el soporte nutricional del paciente crítico)**Sarcopenia and disease (Sarcopenia en la enfermedad)**Maria Pia de la Maza, Instituto de Nutrición y Tecnología de los alimentos (INTA), Santiago de Chile, Chile**Nutritional support in the critically obesity patients (Soporte nutricional en el obeso crítico)**Rafael Figueredo, Hospital de Clinicas, Universidad Nacional de Asuncion, Asuncion, Paraguay**Nutrition strategies for the management of the hypoglycaemias in the critically ill patients (Estrategias nutricionales para el manejo de hiperglucemias en pacientes críticamente enfermos)**Alejandro Higalzo-Ponce, Hospital Medica Sur Lomas, Mexico DF, Mexico**Refeeding syndrome (Síndrome de realimentación)**Ruben Gustavo Kliger, President of FELANPE, Buenos Aires, Argentina**Nutritional support in patients with cardiac insufficiency (Soporte nutricional en pacientes con insuficiencia cardíaca)**Maria Ines Marulanda, Centro Medico Guerra Mendez, Valencia, Venezuela**Advantages of immunonutrition at the intensive care units (Ventajas de la inmunoturición en la unidad de cuidados intensivos)**Alfredo Matos, Past-President of FELANPE, Panama*Friday, September 20th

Granada Congress Center

Instituto de Estudios Documentales del Azúcar y la Remolacha (IEDAR) satellite symposium

MACHADO ROOM

16.00 – 18.30 Scientific update on sugars and health

16.00 – 16.15

Welcome and opening of the session

*Angel Gil, University of Granada, Granada, Spain**Javier Fernandez, IEDAR, Madrid, Spain*

16.15 – 16.45

Basic concepts on sugar in nutrition and health

Janine Verheesen, Knowledge Centre Sugar and Nutrition, Amsterdam, The Netherlands

16.45 – 17.15

Sugars and diabetes

Alejandro Sanz, Hospital Miguel Servet, Zaragoza, Spain

17.15 – 17.45

Update of sugars and obesity

Carmen Gomez-Candela, University Hospital La Paz, Universidad Autonoma of Madrid, Madrid, Spain

17.45 – 18.00

Round table and debate

18.30 – 19.00

Presentation of the “Nutricion Hospitalaria” and the “White Paper” on sugars

Ana Sastre, IEDAR, Madrid, Spain

Carmen Gomez-Candela, Hospital La Paz, Madrid, Spain

Samara Palma, Hospital La Paz, Madrid, Spain

18.00 – 18.30

Closing remarks

Isabel Vasserot, IEDAR, Madrid, Spain

Monday, September 16th

Andalucia Room

17.00 – 19.00 How breast milk feeding knowledge can lead to better infant nutrition

SPS1-1 Sponsored by: HERO INSTITUTE FOR INFANT NUTRITION

*Chairs: Ronald E. Kleinman, Mass General Hospital for Children Chair, Department of Pediatrics
Massachusetts General Hospital, Boston, USA
Charles Wilder Professor of Pediatrics Harvard Medical School, Boston, USA*

Bioactive proteins in breast milk

Bo Lönnerdal, Department of Nutrition, University of California, Davis, USA

Short and long-term effects of an iso-caloric post discharge formula for preterm infants

Harrie N. Lafeber, Department of Pediatrics, Vrije University Medical Center, Amsterdam, The Netherlands

Effect of an infant formula with reduced energy level and supplemented with milk fat globule membrane protein on growth and development

Olle Hernell, Department of Clinical Sciences, Pediatrics, Umea University, Umea, Sweden

Room Machado and Picasso

17.00 – 19.00 The role of beverages in childhood nutrition

SPS1-2 Sponsored by: NESTLE NUTRITION INSTITUTE

Chair: Ferdinand Haschke, Nestle Nutrition Institute, Vevey, Switzerland

Hydration status in schoolchildren after breakfast: Stratified analysis of three transversal studies in Europe
Gerard Friedlander, Descartes University, Paris, France

Milk consumption in children's growth and development

Lindsay Allen, USDA, ARS Western Human Nutrition Research Center, University of California, Davis, USA

Beverage nutrient density and childhood obesity

Adam Drewnowski, School of Public Health, University of Washington, Seattle, USA

Falla Auditorium

17.00 – 19.00 Hydration and health

SPS1-3 Sponsored by: EUROPEAN HYDRATION INSTITUTE (EHI)

Chairs: Jane Holdsworth, European Hydration Institute-EHI, Yatton Keynell, Chippenham, Wiltshire, UK

Gregorio Varela-Moreiras, Department of Nutrition and Bromatology, San Pablo-CEU University, Madrid, Spain

Methods to record liquid intake and health consequences of inadequate intakes

Lluís Serra-Majem, University of Las Palmas de Gran Canaria, Las Palmas, Spain

The importance of hydration and the health impact of inadequate hydration in elderly people

Lee Hooper, University of East Anglia, Norfolk, UK

The effects of hydration on physical activity and exercise performance and perception of effort

Ronald J. Maughan, Department of Sport and Exercise Nutrition, Loughborough University, Loughborough, UK

Fluid intake guidelines for recreational exercisers in different environments

Jason Kai Wei Lee, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Republic of Singapore

Lorca Auditorium

17.00 – 19.00 Future of Nutrition in the 21st Century

SPS1-4 Sponsored by: ABBOTT NUTRITION HEALTH INSTITUTE

Chair: Angel Gil, University of Granada, Granada, Spain

Early infant nutrition: Windows of opportunity and potential outcomes

Bert Koletzko, Dr von Hauner Children's Hospital, University of Munich Medical Center, Munich, Germany

Personalized nutrition and prevention of chronic diseases

Jose Ordovas, Tufts University, Boston, USA

How to match new biotechnology developments with regulatory challenges in nutrition

Andreu Palou, Nutrition and Biotechnology (LBNB) of the University of Balearic Islands & CIBERObn Biomedical Research Centre Network on Obesity and Nutrition, Palma de Mallorca, Spain

Room B

17.00 – 19.00 Food choices throughout the day to combat global obesity: Review of the evidence and future opportunities

SPS1-5 Sponsored by: GENERAL MILLS INSTITUTE OF HEALTH AND NUTRITION

Chairs: France Bellisle, Faculty of Medicine, Laval University, Quebec City, Human

Nutrition Research Centre of l'Ile de France, Paris University, Bobigny, France

Maha Tahiri, General Mills Bell institute of Health and Nutrition, Minneapolis, USA

Determinants of food intake by humans: Psycho-biological mechanisms of body weight control

France Bellisle, Department of Kinesiology, Faculty of Medicine, Laval University, Quebec, Canada
Human Nutrition Research Centre of l'Ile de France, Paris University, Bobigny, France

Global dietary guidelines and dietary patterns in influencing food choices, body weight and chronic disease risk reduction

Antonia Trichopoulou, World Health Organization Collaborating Centre for Nutrition, University of Athens, Athens, Greece

Role of dairy foods and associated nutrients: Impact on body weight and chronic disease risk reduction

Angelo Tremblay, Department of Human Nutrition, Faculty of Life Sciences, University of Copenhagen, Copenhagen, Denmark

Role of grain foods and associated nutrients: Impact on body weight and chronic disease risk reduction

Penny Kris-Etherton, Department of Nutritional Sciences, Pennsylvania State University, University Park, Pennsylvania, USA

Role of vegetables and fruits and associated nutrients: Impact on body weight and chronic disease risk reduction

Brian Buijsse, German Institute of Human Nutrition Potsdam-Rehbrücke, Department of Epidemiology, Nuthetal, Germany

Room C

17.00 – 19.00

SPS1-6

Clinical immunonutrition

Sponsored by: VEGENAT

Chair: Miguel Leon, Hospital Universitario 12 de Octubre, Madrid, Spain

Nitrogen dietary compounds and their role in the immune response
Peter B. Soeters, University of Maastricht, Maastricht, The Netherlands

Long-chain PUFA and immunity
Philip C. Calder, University of Southampton, Southampton, UK

Micronutrients and immune response: Basic and clinical aspects
Rosa Burgos, Vall d'Hebron Hospital, Barcelona, Spain

Clinical nutrition in immune-compromised patients
Carmen Gomez Candela, La Paz Hospital, Madrid, Spain

Machuca and Albeniz Rooms

17.00 – 19.00

SPS1-7

Yogurt in nutrition: Initiative for a balanced diet

Sponsored by: INTERNATIONAL INSTITUTE DANONE

Chairs: Luis Moreno, University of Zaragoza, Zaragoza, Spain
Sharon Donovan, Danone Institute International, Palaiseau Cedex, France

Dairy and yogurt in current dietary recommendations world-wide
Andrew Prentice, London School of Hygiene & Tropical Medicine, London, UK

Yoghurt: How does it fit in a nutritional adequate diet?
Nicole Darmon, INSERM Marseille, France

Yogurt consumption to prevent weight gain and metabolic diseases: Evidence from epidemiological and experimental studies
Arne Astrup, Department of Human Nutrition at the Faculty of Life Sciences of the University of Copenhagen, Copenhagen, Denmark

Dairy and yogurt: The public health cost-effectiveness
David McCarron, UC Davis, Davis, California, USA

Room D

17.00 – 19.00

SPS1-8

Protein requirements for optimal health throughout all life stages

Sponsored by: HUMAN NUTRITION AND HEALTH COMMITTEE OF THE INTERNATIONAL MEAT SECRETARIAT

Chair: Mary Ann Binnie, Human Nutrition and Health Committee International
Meat Secretariat, Canadian Pork Council, Ottawa, Canada

Dietary protein quality: New perspectives
Paul Moughan, Riddet Institute, Massey University, Palmerston North, New Zealand

Protein needs of children: Are current dietary recommendations appropriate?
Rajavel Elango, Department of Pediatrics, University of British Columbia, Canada Scientist, Child & Family Research Institute, BC Children's Hospital, Vancouver, Canada

Getting older, getting better! Eating and exercising for healthy aging
Nancy R. Rodriguez, College of Agriculture and Natural Resources, Departments of Kinesiology and Allied Health Sciences, Williamsburg, USA

Protein for long life: Do older adults need more protein to live longer?

Caryl Nowson, Department of Nutrition and Ageing, Deakin University, Burwood, Australia

Seminar Rooms 3, 4, 5

17.00 – 19.00 Plant-based eating and cardiovascular health benefits

SPS1-8B Sponsored by: ALPRO

Chairs: Kurt Widhalm, Department of Pediatrics, University of Vienna, Austria

Jordi Salas-Salvado, Human Nutrition Unit, University Hospital of Sant Joan, Rovira I Virgili University, Reus, Spain

Plant versus marine n-3 fatty acids and cardiovascular outcomes: What is the verdict?

Tom Sanders, King's College London, London, UK

Plant-Based Diets in the prevention of heart disease and diabetes: Findings from PREDIMED

Miguel Angel Martinez-Gonzalez, University of Navarra, Pamplona, Spain

Soy protein intake and the metabolic syndrome: A strictly-controlled dietary intervention

Monique van Nielen, Wageningen University, Wageningen, The Netherlands

Tasting of Alpro plant-based products

Tuesday, September 17th

Andalucia Room

17.00 – 19.00 Satiety: From integrative approach to food application

SPS2-9 Sponsored by: MONDELÉZ INTERNATIONAL (PREVIOUSLY KRAFT FOODS)

*Chairs: John E. Blundell, Institute of Psychological Sciences, University of Leeds, Leeds, UK
Ascension Marcos, Immunonutrition Research Group, Instituto del Frio of CSIC, Madrid, Spain*

PART I. Satiety: From appetite sciences to food application

Satiety regulation and measurement: Linking physiology and behavior

John E. Blundell, Institute of Psychological Sciences, University of Leeds, Leeds, UK

Development of a satiety panel as a new method to screen satiety enhancing foods

Sophie Vinoy, Nutrition Research, Mondelēz International R&D, Saclay, France

Satiety and its benefits to the consumer

Marion Hetherington, Department of Biopsychology, Institute of Psychological Sciences, University of Leeds, Leeds, UK

Discussion

PART II. Satiety: New insights

Mechanisms of appetite regulation: A role of the gut microbiota?

Nathalie M. Delzenne, Research Group in Metabolism and Nutrition, Louvain Drug Research Institute, Universite Catholique de Louvain, Belgium

How does neuroimaging help us understand mechanisms of satiety?

Hans-Rudolf Berthoud, Neurobiology of Nutrition Laboratory, Pennington Biomedical Research Center, USA

Room Machado

17.00 – 19.00 Nutrition starts at the breakfast table

SPS2-10A Sponsored by: PURATOS

Chair: Filip Arnaut, Puratos, Groot-Bijgaarden, Belgium

Breakfast habits and risk of overweight and obesity

Luis Moreno, Department of Preventive Medicine and Public Health, University of Zaragoza, Zaragoza, Spain

How does breakfast affect blood glucose and appetite?

*Ian Macdonald, Department of Metabolic Physiology, University of Nottingham, Nottingham, UK
International Journal of Obesity, Queen's Medical Centre, Nottingham, UK*

Breakfast and cognitive performance in children & adults

Louise Dye, Human Appetite Research Unit, Institute of Psychological Sciences, University of Leeds, Leeds, UK

What is a balanced breakfast?

Carlo Agostoni, Department of Maternal and Pediatric Sciences, Fondazione IRCCS Ca' Granda-Ospedale Maggiore Policlinico, University of Milan, Milan, Italy

Bread: A perfect option for a healthy breakfast

Adeline Pierre, Puratos, Groot-Bijgaarden, Belgium

Room Picasso**17.00 – 19.00****SPS2-10B****How to get your paper published****Sponsored by: NATURE PUBLISHING GROUP**

*Chair: Ian Macdonald, Department of Metabolic Physiology, University of Nottingham, Nottingham, UK
International Journal of Obesity, Queen's Medical Centre, Nottingham, UK*

How to ensure any nutritional studies are conducted appropriately – good clinical practice
*Ian Macdonald, Department of Metabolic Physiology, University of Nottingham, Nottingham, UK
International Journal of Obesity, Queen's Medical Centre, Nottingham, UK*

How the peer review process works. Key features sought by the Editor and how to interpret their response
Richard Atkinson, International Journal of Obesity, Virginia Commonwealth University, Obetech Obesity Research Center, Richmond, USA

How to pick an appropriate outlet for publication. How to draft and finalize a manuscript for publication
Manfred Mueller, European Journal of Clinical Nutrition, Christian Albrechts University, Kiel, Germany

Ensuring your paper adheres to journal policies. How to maximise dissemination of your paper post publication
Lucinda Haines, Academic Journals Department, Nature Publishing Group, London, UK

Falla Auditorium**17.00 – 19.00****SPS2-11****Behaviour change for better health****Sponsored by: UNILEVER**

Chair: Hans Zevenbergen, Unilever R&D, Vlaardingen, The Netherlands

Stimulating healthier behaviours throughout life
Hans Zevenbergen, Unilever R&D, Vlaardingen, The Netherlands

School meals for a brighter future

The importance of school meals for children's nutrition and health
Ans Eilander, Unilever R&D, Vlaardingen, The Netherlands

Developing tasty, appealing and nutritious school meals: The chef's perspective
Janice Lazaga, Unilever Food Solutions, Manila, Philippines

Impact of improved school meals on nutrient intake: A case study from the Philippines
Imelda Agdeppa, Department of Science and Technology, Food and Nutrition Research Institute, Taguig City, Philippines

Partnering to speed up salt reduction

Global IUNS and Unilever partnership on salt reduction
Yang Yuexin, Chinese Nutrition Society, Department of Food Nutrition and Assessment, National Institute of Nutrition and Food Safety, Beijing, China

Global consumer perception from a multi-country study: "Salt reduction is fine but my intake is healthy"
Gerda Feunekes, Unilever R&D, Vlaardingen, The Netherlands

Lorca Auditorium

17.00 – 19.00 **Omega-3 fatty acids: Science and health**
SPS2-12 **Sponsored by: PULEVA**

Chairs: Ricardo Uauy, Institute of Nutrition, University of Chile, Santiago de Chile, Chile
Cristina Campoy, University of Granada, Granada, Spain

Omega-3 fatty acids - nutritional and physiological properties
Philip Calder, Department of Nutritional Immunology, University of Southampton, Southampton, UK

Omega-3 Fatty acids: Underlying Mechanisms for “Protection” in liver, heart, and brain
Richard J. Deckelbaum, Institute of Human Nutrition and Department of Pediatrics, Columbia University Medical Center, New York, USA

Omega-3 fatty acids: DHA key for neurodevelopment
Ricardo Uauy, Institute of Nutrition, University of Chile, Santiago de Chile, Chile

Omega-3 Fatty acids and cardiovascular disease
Jose Lopez-Miranda, IMIBIC, Reina Sofia University Hospital, University of Cordoba, CIBER Obesity and Nutrition of Fisiopatologia, Carlos III Health Institute, Madrid, Spain

Room B

17.00 – 19.00 **Personalized nutrition based on genetic tools**
SPS2-13 **Sponsored by: CINFA**

Chairs: Jose Ordovas, University of Tufts, Boston, USA
Fermin Milagro, University of Navarra, Pamplona, Spain

Technological approaches for high throughput genetic screening
Antonio Martinez, Progenika, Bilbao, Spain

Genetic tests with metabolic implications
Fernando Civeira, University of Zaragoza, Zaragoza, Spain

Nutritional genomics
Jose Ordovas, University of Tufts, Boston, USA

Adipose tissue gene expression patterns after dieting
Dominique Langin, INSERM Toulouse, France

Nutrigenetics in cardiovascular disease
Raffaele De Caterina, Università G de Annunzio, Chieti, Italy

Adipose tissue gene expression patterns after dieting
Dominique Langin, INSERM Toulouse, France

Room C

17.00 – 19.00 **Diet modelling: How it can inform the development of dietary recommendations and public health policy**
SPS2-14 **Sponsored by: DANONE RESEARCH**

Chair: Andre Briend, Department of International Health, University of Tampere, Tampere, Finland

Welcome
Anne Lluch, Danone Research, Palaiseau, France

Public health nutrition stakes
Judith Buttriss, British Nutrition Foundation, London, UK

Diet modelling: An introduction

Andre Briend, Department of International Health, University of Tampere, Tampere, Finland

Diet modelling: What added value to public nutrition research?

Nicole Darmon, French National Institute for Agricultural Research (INRA), Mixt Research Unit Nutrition Obesity and Thrombotic Risk, Marseille, France

Applications of mathematical modelling for nutrition intervention programme planning and policy in low income countries

Elaine Ferguson, London School of Hygiene & Tropical Medicine, London, UK

Using linear programming to translate nutrient recommendations into realistic and individual-specific food choices

Matthieu Maillot, Aix-Marseille University, Mixt Research Unit Nutrition Obesity and Thrombotic Risk, Marseille, France

General discussion and conclusions

Chair and all speakers

Machuca and Albeniz Rooms

17.00 – 19.00 SPS2-15 Micronutrient intake and status: A global view and implications on public health
Sponsored by: DSM

Chair: Sean Strain, Ulster University, Northern Ireland, UK

Revisiting vitamin status in Western populations

Peter Weber, University of Stuttgart-Hohenheim, Stuttgart, Germany

A global assessment of vitamin D status

Peter Ebeling, University of Melbourne, Melbourne, Australia

Food status and food fortification

Helene McNulty, Northern Ireland Centre for Food and Health (NICHE), University of Ulster, Northern Ireland, UK

Impact of inadequate micronutrient status on health and health care costs

Manfred Eggersdorfer, University Medical Center Groningen and Nutrition Science & Advocacy DSM Nutritional Products, The Netherlands

Room D

17.00 – 19.00 SPS2-16 Launch of the 2014 Micronutrient Forum: Bridging scientific advances and programs to improve health
Sponsored by: MICRONUTRIENT FORUM

*Chairs: Ian Darnton-Hill, University of Sydney, Sydney, Australia and Tufts University, Boston, USA
Rafael Flores-Ayala, International Micronutrient Malnutrition Prevention and Control (IMMPaCt) Program, U.S. Centers for Disease Control and Prevention (CDC), Atlanta, USA*

Opening Remarks and order of the day

Rafael Flores-Ayala, International Micronutrient Malnutrition Prevention and Control (IMMPaCt) Program, U.S. Centers for Disease Control and Prevention (CDC), Atlanta, USA

Developments in health and nutrition that have influenced the direction and focus of the New Micronutrient Forum:

State-of-the-art research in micronutrient

Emorn Wasantwisut, Mahidol University, Bangkok, Thailand

Micronutrients and the double burden of malnutrition

Juan Rivera Dommarco, Instituto Nacional de Salud Publica, Cuernavaca, Mexico

Micronutrients and disease

Daniel J. Raiten, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health (NIH) Bethesda, USA

Coordination and integration of micronutrients into multi-sector programs

Amha Kebede, Ethiopian Health & Nutrition Research Institute (EHNRI), of the Ethiopian Federal Ministry of Health, Addis Ababa, Ethiopia

Brief presentation of the Micronutrient Forum's strategic plan

Lynnette Neufeld, Micronutrient Forum Committee, Ottawa, Canada

Panel and audience discussion

All speakers

Summary and concluding remarks

Ian Darnton-Hill, University of Sydney, Sidney, Australia and Tufts University, Boston, USA

Seminar Rooms 3, 4, 5

17.00 - 19.00 Beer and Mediterranean Diet

SPS2-16B Sponsored by: CERVEZA Y SALUD

Chair: Manuel Castillo Garzon, University of Granada, Granada, Spain

Mediterranean Diet, not just a diet

Manuel Castillo Garzon, University of Granada, Granada, Spain

Moderate consumption of beer in the modulation of antioxidant protection, weight control and health

Rosa Ortega Anta, University Complutense, Madrid, Spain

Beer in the context of Mediterranean Diet

Lluís Serra Majem, University of Las Palmas de Gran Canaria, Las Palmas, Spain

Wednesday, September 18th
Andalucia Rooms
17.00 – 19.00 Micronutrients for optimum health
SPS3-17 Sponsored by: BAYER
Chair: Luca Barella, Bayer Consumer Care Ltd, Basel, Switzerland

Vitamin: Wrong approaches

Ulrich Moser, Swiss Nutrition Society, Basel, Switzerland

Periconceptional folic-acid containing multivitamin supplementation for prevention of neural-tube defects and cardiovascular malformations

Attila Vereczkey, Versys Clinics, Human Reproduction Institute, Budapest, Hungary

Vitamin and cognition

David Kennedy, Department of the Brain, Performance and Nutrition Research Centre, Northumbria University, Newcastle, UK
Room Machado and Picasso
17.00 – 19.00 Physical activity: Can it help prevent cognitive impairment and Alzheimer's disease?
SPS3-18 Sponsored by: THE COCA-COLA Co.
Chairs: Noël C. Barengo, Unit of Non-Communicable Diseases, Department of Prevention and Health Promotion, Ministry of Health and Social Protection, Colombia
Jonatan Ruiz, Department of Physical Education and Sport, School of Sport Sciences, University of Granada, Granada, Spain

Nutrition, brain function and cognitive performance

Jose Alejandro Luchsinger, Columbia University Medical Center, New York, USA

Physiological mechanisms of physical activity in the prevention of Alzheimer's disease

Denise Head, Department of Psychology, Washington University, St Louis, USA

Lifestyle interventions to prevent Alzheimer's disease: Experiences from the FINGER

Tiia Ngandu, National Institute of Health and Welfare, Helsinki, Finland

Physical activity in the prevention of Alzheimer's disease

Jaakko O. Tuomilehto, MPOSc. Department of Vascular Prevention, Danube-University Krems, Krems, Austria

Concepts of exercise prescription in clinical practice

Noël C. Barengo, Unit of Non-Communicable Diseases, Department of Prevention and Health Promotion, Ministry of Health and Social Protection, Colombia
Falla Auditorium
17.00 – 19.00 Public private partnership in nutrition
SPS3-19 Sponsored by: NESTLE
Chairs: Angel Gil, University of Granada, Granada, Spain
Ibrahim Elmadfa, University of Vienna, Vienna, Austria

Introduction

Chairs

What are the elements of a successful engagement in nutrition focused partnership?

Massimo Massi-Benedetti, International Diabetes Federation (IDF), Hub for International health ReSearch HIRS, Perugia, Italy

What are the challenges and pitfalls from an academic perspective?

Zulfiqar Bhutta, Center for Global Child Health, Sick Kids, Toronto, Canada

Center of Excellence in Women & Child Health, Aga Khan University, Karachi, Pakistan

How do governments set parameters in engaging in multi-stakeholders partnership to avoid conflict of interest?

Chris Osa Isopkunwu, Nigeria Federal Ministry of Health, Garki Abuja, Nigeria

What can industry bring to the table and the shared benefits?

Denis Barclay, Nestlé, Vevey, Switzerland

Final Discussion

Summing up by Co-Chairs

Lorca Auditorium

17.00 – 19.00 Nutrition and health benefits of emerging fibres

SPS3-20 Sponsored By: TATE & LYLE

Chair: Priscilla Samuel, Global Nutrition, Tate & Lyle, Hoffman Estates, Illinois, USA

Introduction to emerging fibres: Global intakes and recommendations

Priscilla Samuel, Global Nutrition, Tate & Lyle, Hoffman Estates, Illinois, USA

Role of soluble corn fibre and polydextrose in gut health

Joanne Slavin, Department of Food Science and Nutrition, University of Minnesota, Minneapolis, Minnesota, USA

Effect of soluble corn fibre on calcium absorption and bone health

Connie Weaver, Department of Nutrition Science, Purdue University, West Lafayette, Indiana, USA

Effect of soluble fibre dextrin on appetite and food intake

James Hollis, Department of Food Science and Human Nutrition, Iowa State University, Ames, Iowa, USA

Application of emerging fibres to bridge the intake gap

Priscilla Samuel, Global Nutrition, Tate & Lyle, Hoffman Estates, Illinois, USA

Room B

17.00 – 19.00 Guidelines for adequate water intake: Public health rationale

SPS3-21 Sponsored by: EFBW

*Chair: Laurent Le Bellego, Hydration and Health Affairs, Danone Research, Centre
Daniel Carasso, Palaiseau, France*

Water intake is essential for the maintenance of normal cognitive function: A scientific review

Harris Lieberman, Westwood, USA

Establishing international guidelines for adequate water intake

Lawrence E. Armstrong, Danone Scientific Advisory Board, American College of Sports Medicine, USA

Water intake is essential for the maintenance of normal physical function and thermoregulation: A scientific review

Stavros Kavouras, University of Arkansas, Fayetteville, USA

Room C

17.00 – 19.00

Palmitic acid and health

SPS3-22

*Chairs: Carlo Agostoni, University of Milan, Milan, Italy
Luis Moreno, University of Zaragoza, Zaragoza, Spain
Raanan Shamir, Schneider Children's Medical Center, Petach Tiqva, Israel*

*Saturated fatty acids: Nutritional guideline and science
Dennis M. Bier, Baylor College of Medicine, CNRC, Houston, Texas, USA*

*Safety and efficacy of saturated fatty acids: Methodological issues
Hania Szajewska, Department of Paediatrics, Medical University of Warsaw, Warsaw, Poland*

*Palmitic acid in the pediatric age: More than energy
Sheila Innis, Department of Pediatrics, University of British Columbia, Vancouver, Canada*

*Palm oil: Health, wellbeing and economics
Giovanni Fattore, Department of Policy Analysis and Public Management, Bocconi University, Milan, Italy*

Machuca Room

17.00 – 19.00

Sarcopenic obesity: Measurement, risks and interventions

SPS3-23A

Sponsored By: TANITA

Chair: Susan Jebb, OBE, University of Oxford, UK

*Sarcopenic obesity: Compounding metabolic risks by fat gain and muscle loss
Steve Heymsfield, Pennington Biomedical Research Center, Baton Rouge, USA*

*Beyond BMI: Measuring sarcopenic obesity
Andrew Prentice, MRC International Nutrition Group, LSHTM, London, UK*

*Sarcopenic obesity: A critical appraisal of the current evidence
Mario Siervo, Institute for Ageing and Health, Newcastle University, UK*

*Health risks of sarcopenic obesity: The Korean Sarcopenic Obesity Study (KSOS)
Kyung Mook Choi, Division of Endocrinology and Metabolism, Korea University, Seoul, Korea*

Panel and audience discussion

Albeniz Room

17.00 – 19.00

Beneficial roles of non-classical probiotic bacteria

SPS3-23B

Sponsored by: BIOPOLIS

Chair: Daniel Ramon, Biopolis, Valencia, Spain

*Gut microbes and obesity: Who can help?
Yolanda Sanz, National Research Council (CSIC), Valencia, Spain*

*Akkermansia: A novel probiotic
Willem de Vos, Wageningen University, Wageningen, The Netherlands*

*Faecalibacterium prausnitzii as a novel probiotic bacterium
Philippe Langella, Ecology and Physiology of the Digestive System, INRA de Jouy-en-Josas, France*

Room D

17.00 – 19.00

SPS3-24

Weight management and the role of carbohydrates

Sponsored by: BENEIO- Institute

Chair: Jeyakumar Henry, Singapore Institute of Clinical Sciences, Singapore, Singapore

Physiological diversity of carbohydrates

Stephan Theis, BENEIO-Institute, Obrigheim, Germany

Recent advances on the role of low glycemic carbohydrates in weight management

Jeyakumar Henry, Singapore Institute for Clinical Sciences, Singapore, Singapore

Obesity, microflora and the effects of inulin-type fructans

Rob A. Rastall, University of Reading, Reading, UK

Prebiotic fibers and weight management

Raylene Reimer, University of Calgary, Calgary, Canada

Seminar Rooms 3, 4, 5

17.00 – 19.00

SPS3-24B

Biomarkers in Growth (BIG)

Sponsored by: SIGHT & LIFE

Chairs: Klaus Kraemer, Sight and Life, Kaiseraugst, Switzerland

Daniel J Raiten, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, USA

Panelists: Lindsay Allen, Agricultural Research Service, U.S. Department of Agriculture and University of California at Davis, Davis, USA

Andre Briend, Department of International Health, University of Tampere Medical School, Tampere, Finland

Rosalind Gibson, Department of Human Nutrition, University of Otago, Dunedin, New Zealand

Current challenges with regard to growth in LMIC

Zulfiqar Bhutta, Aga Khan University, Karachi, Pakistan

Endocrinology of nutrition and growth

Morey Hammond, Baylor University, Waco, USA

Nutritional biology of linear growth: Immediate and long-term impact (DOHaD)

Alan Jackson, University of Southampton, Southampton, UK

Body composition: What is 'normal' and how can we measure it?

Ricardo Uauy, University of Chile, Chile

New paradigms in assessing growth: Systems biology

Ben van Ommen, TNO Innovation for Life, Zeist, The Netherlands

Thursday, September 19th**Andalucia Room****17.00 – 19.00 Umami taste compounds to control appetite and reduce sodium intake: A new nutritional approach****SPS4-25 Sponsored by: AJINOMOTO***Chair: Gary Beauchamp, Monell Chemical Senses Center, Philadelphia, USA*

Introduction to umami taste

Gabriella Morini, Department of Organic Chemistry, University of Gastronomic Sciences, Pollenzo Campus, Pollenzo, Italy

The effect of free glutamate in infant food preference and intake

Gary Beauchamp, Monell Chemical Senses Center, Philadelphia, USA

Protein and the control of food and energy intake

Daniel Tome, Department of Human Nutrition, Department of "Life Science and Health" and head of the Laboratory "Nutrition Physiology and Ingestive Behavior", AgroParisTech, Paris, France

Sensory-enhancement of appetite and satiety

Martin Yeomans, Department Experimental Psychology, University of Sussex, Brighton, UK

Taste and sodium reduction: A challenge for public health

*Adam Drewnowski, Pierre et Marie Curie University, Pitie-Salpetriere Hospital Group Paris VI, Paris, France***Room Machado****17.00 – 19.00 Current situation of cholesterol reduction for the prevention of cardiovascular diseases****SPS4-26A Sponsored by: CENTRAL LECHERA ASTURIANA***Chair: Luis Collado, UCM-CLAS, School of Medicine, University Complutense of Madrid, Madrid, Spain*

Risk factors and prevalence of cardiovascular diseases

Luis Collado, School of Medicine, University Complutense of Madrid, Madrid, Spain

Diet and cardiovascular diseases

Marta Hernandez, CAPSA, Health and Nutrition, Spain

Phytosterols and cardiovascular diseases

Emilio Ros, Lipids Unit Hospital Clinic, Barcelona, Spain

Clinical evidence of plasma cholesterol decrease mediated by phytosterols

Teresa Padro, ICCG, Barcelona, Spain

Room Picasso

17.00 – 19.00 **Monounsaturated fatty acids and health**
SPS4-26B **Sponsored by: DEOLEO**

Chairs: Jose Ordovas, University of Tufts, Boston, USA

Eduardo Lopez Huertas, Zaidin Experimental Station, Consejo Superior de Investigaciones Cientificas (CSIC), Granada, Spain

Monounsaturated fatty acids and health: Scientific evidence
Dariusz Mozaffarian, Harvard School of Public Health, Boston, USA

Olive oil: Health benefits through life
Francisco Perez Jimenez, IMIBIC, Reina Sofia University Hospital, University of Cordoba, CIBER Obesity and Nutrition of Fisiopatologia, Carlos III Health Institute, Madrid, Spain

Biological activities of polyphenols in oils
Francesco Visioli, Laboratory of Functional Foods, IMDEA-Food, Madrid, Spain

Fats and fatty acid dietary intake recommendations. Where do we stand and where are we going?
Ricardo Uauy Institute of Nutrition, University of Chile, Santiago de Chile, Chile

Falla Auditorium

17.00 – 19.00 **Maintaining health with nutrient rich diets: The role of dairy in prevention of metabolic syndrome, CVD, obesity and sarcopenia**
SPS4-27 **Sponsored by: Centre National Interprofessionnel de l'Economie Laitiere (CNIEL), Dairy Australia, Dairy Council (GB), Dairy Research Institute (DRI), Dutch Dairy Association (NZO), European Milk Forum (EMF), Global Dairy Platform (GDP), International Dairy Federation (IDF)**

Chairs: Connie Weaver, Department of Nutrition Science, Purdue University, West Lafayette, USA
Stefanie Oude Elferink, International Dairy Federation Standing Committee on Nutrition and Health, Deventer, The Netherlands

Dairy's rich nutrient package
Connie Weaver, Department of Nutrition Science, Purdue University, West Lafayette, USA

Dairy, metabolic syndrome and blood pressure, evidence from the MONICA study
Vanina Bongard, Department of Epidemiology, Health Economics and Public Health, School of Medicine, Toulouse, France

The relationship between high-fat dairy and obesity, cardiovascular, and metabolic disease
Mario Kratz, Fred Hutchinson Cancer Research Center & University of Washington University, Seattle, USA

Dairy protein and muscle mass maintenance in the elderly: Preventing sarcopenia
Luc van Loon, Department of Human Movement Sciences, Maastricht University, The Netherlands

Lorca Auditorium

17.00 – 19.00 Active healthy living and prevention of chronic diseases

SPS4-28 Sponsored by: THE COCA COLA Co.

*Chairs: Michael Pratt, National Center for Chronic Disease Prevention and Health Promotion Centers for Disease Control and Prevention (CDC), Atlanta, USA
Marcela Gonzalez-Gross, Sports Physiology and Sports Nutrition, Research group ImFINE, Technical University of Madrid, Madrid, Spain*

How important is maintaining physical activity levels, compared to reducing obesity and overweight?
Steven N. Blair, Prevention Research Center, University of South Carolina, Columbia, USA

Athletes or physically active individuals show the effect beneficial exercise in the density of bone
Sandra Matsudo, Agita Sao Paulo program, Study Center of Physical Ability of Sao Caetano del Sur (CELAFICSCS) Sao Paulo, Brazil

Influence of the doctors in the physical activity habits of the citizens
Marianella Herrera, CENDES, Central University of Venezuela, Caracas, Venezuela

Nutrition and neuroprotection, cognition and mood effects herbal extracts, nutrients and food supplements
Michael Pratt, National Center for Chronic Disease Prevention and Health Promotion Centers for Disease Control and Prevention (CDC), Atlanta, USA

Room B

17.00 – 19.00 Functional ingredients and development of diets for elderly population

SPS4-29 Sponsored by: SENIFOOD

*Chairs: Gregorio Varela, Spanish Nutrition Foundation (FEN), Department of Pharmaceutical & Food Sciences, Madrid, Spain
Nicolas Issaly, NATUREX SL, Valencia, Spain*

Overview of the SENIFOOD Project
Nicolas Issaly, NATUREX SL, Valencia, Spain

Nutrition and elderly
Gregorio Varela, Spanish Nutrition Foundation (FEN), Department of Pharmaceutical & Food Sciences, Madrid, Spain

Importance of nutrition for healthy aging
Iker Laskibar, MATIA Foundation, Donostia-San Sebastian, Spain

Advances in the characterization of functional food ingredients
Nicolas Issaly, NATUREX SL, Valencia, Spain

Combination of new functional ingredients and food matrices for the elderly
Jose Ramon Iglesias Barcia, CAPSA, Oviedo, Spain

Preclinical and clinical trials of functional ingredients for elderly people
Daniel Ramon, BIOPOLIS, University of Valencia, Valencia, Spain

Room C

17.00 – 19.00 Partnerships to drive impact at scale: Improving accessibility and affordability to nutritious foods for mothers and children

SPS4-30 Sponsored by: GLOBAL ALLIANCE FOR IMPROVED NUTRITION

Chair: Regina Moench-Pfanner, GAIN, Geneva, Switzerland

Welcome and introduction

Marc Van Ameringen, GAIN, Geneva, Switzerland

Insight into mother's feeding practices: Results from a focused ethnographic study, Kenya

Margaret Armar Klemesu, Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana

Developing an innovative approach to changing infant feeding behavior

Valerie Curtis, London School of Hygiene and Tropical Medicine, London, UK

Scaling-up access to complementary feeding products: Experience from the field, Bangladesh

Kaosar Afsana, BRAC, Bangladesh

Partnerships to reduce malnutrition: Examples from Indonesia

Hardinsyah Hardinsyah, University of Bogor, Bogor, Indonesia

Partnering for evidence: The role of survey results in nutrition programming: Examples from Vietnam and Bangladesh

Regina Moench-Pfanner, GAIN, Geneva, Switzerland

Machuca Room

17.00 – 19.00 Nuts in health and disease

SPS4-31A Sponsored by: INC INTERNATIONAL NUT & DRIED FRUIT COUNCIL

Chairs: Miguel A. Martinez-Gonzalez, Department of Preventive Medicine and Public Health, University of Navarra, Pamplona, Navarra, Spain

Jordi Salas-Salvado, Human Nutrition Unit, University Hospital of Sant Joan, Department of Biochemistry and Biotechnology, Pere Virgili Institute for Health Research, Rovira I Virgili University, Reus, Spain

Effect of nuts intake on insulin resistance and other cardiovascular risk factors

Monica Bullo, Human Nutrition Unit, University Hospital of Sant Joan, Department of Biochemistry and Biotechnology, Pere Virgili Institute for Health Research, Rovira I Virgili University, Reus, Spain

Effect of nuts on body weight

Joan Sabate, Department of Epidemiology and Biostatistics, School of Public Health, Loma Linda University, Loma Linda, California, USA

Epidemiologic studies on nuts and chronic diseases

Frank Hu, Department of Nutrition, Harvard School of Public Health, Harvard University, Boston, USA

Tree nuts and metabolic syndrome

Linda Tapsell, School of Health Sciences, Faculty of Health and Behavioral Sciences, University of Wollongong, Wollongong, Australia

Albeniz Room

17.00 – 19.00

SPS4-31B

Front of pack-labeling: Promises and actions

Sponsored by: CHOICES INTERNATIONAL

Chair: Barry Popkin, University of North Carolina, Chapel Hill, USA

Introduction

Barry Popkin, University of North Carolina, Chapel Hill, USA

Front of pack-labeling in Europe and impact in The Netherlands

Jaap Seidell, VU University Amsterdam, The Netherlands

The science behind the IOM recommended US-system

Ellen Wartella, Northwestern University, Institute of Medicine (IOM), Washington, USA

Chile: Implementing a law on labeling and child marketing

Ricardo Uauy, Institute of Nutrition, University of Chile, Santiago de Chile, Chile

Mexico: The political issues involved in creating a FOP system

Simon Barquera, Nutrition Epidemiology Division of the Mexican National Institute of Public Health (INSP), Cuernavaca, Mexico

Ahold: A global retailer's efforts to improve consumer choice. Logos and more

Onno Franse, Ahold, Healthy Living and Environment, Amsterdam, The Netherlands

Panel discussion

Barry Popkin, University of North Carolina, Chapel Hill, USA

Room D

17.00 – 19.00

SPS4-32

Biofortification: From discovery to impact

Sponsored by: HARVESTPLUS

Chair: Howarth E. Bouis, HarvestPlus, Washington, USA

Advances in pro-vitamin A maize breeding

Torbert R. Rocheford, Department of Agronomy, Patterson Agronomy, Purdue University, West Lafayette, USA

Progress in efficacy research of iron-biofortified crops: Beans, rice, pearl millet

Jere Haas, Division of Nutritional Sciences, College of Human Ecology, Cornell University, Ithaca, New York, USA

Efficacy of β -carotene biofortified maize flour intake on vitamin A status and deficiency in Zambian children: A cluster-randomized, controlled trial

Keith P. West, Department of International Health, Johns Hopkins University, Bloomberg School of Public Health, Baltimore, USA

Amanda Palmer, Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, USA

Efficacy of pVAC maize among preschool children in Nyimba, Zambia

Sherry Tanumihardjo, Department of Nutritional Sciences, Global Health, University of Wisconsin, Madison, USA

Sustainability of impact: Biofortification in Uganda

Anna-Marie Ball, HarvestPlus, Kampala, Uganda

Post-presentation panel

Erick Boy, HarvestPlus, Washington, USA

Elise Talsma, Wageningen University, Wageningen, Netherlands

Howarth Bouis, HarvestPlus, Washington, USA

Torbert R. Rocheford, Department of Agronomy, Patterson Agronomy at Purdue University, West Lafayette, USA

Jere Haas, Jere Haas, Division of Nutritional Sciences, College of Human Ecology, Cornell University, Ithaca, New York, USA

Keith P. West, Department of International Health, Johns Hopkins University, Bloomberg School of Public Health, Baltimore, USA

Amanda Palmer, Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, USA

Sherry Tanumihardjo, Department of Nutritional Sciences, Global Health, University of Wisconsin, Madison, USA

Anna-Marie Ball, HarvestPlus, Kampala, Uganda

Seminar Rooms 3, 4, 5

17.00 – 19.30 Role of dietary fats in prevention and treatment of the metabolic syndrome

SPS4-32B Sponsored by: THE INTERNATIONAL EXPERT MOVEMENT (IEM) ON THE HEALTH SIGNIFICANCE OF FAT QUALITY IN THE DIET

Chair: Connie Diekman, University Nutrition, Washington University, St. Louis, Missouri, USA

Dietary fat content, energy balance and obesity risk

Susan Jebb, Department of Primary Care Health Sciences, University of Oxford, Oxford, UK

Fat quality in the control of obesity and insulin resistance

Ulf Riserus, Department of Public Health and Caring Sciences, Clinical Nutrition and Metabolism, Uppsala University, Sweden

Emerging science on the effects of early lipid nutrition dietary fatty acids intake to reduce metabolic syndrome risk

Berthold Koletzko, Dr. von Hauner Children's Hospital Ludwig-Maximilians, University of Munich, Munich, Germany

High or low-fat diet (and macronutrient distribution) to counteract the metabolic syndrome?

Jennifer A. Fleming, Department of Nutritional Sciences, Pennsylvania State University, USA

The following list shows the code, title and presenting authors of 20th ICN Posters. The rest of the authors (at allii authors) appear in the Annals of Nutrition Supplement [Ann Nutr Metab 63(suppl1) (2013)] in which abstracts have been published. This supplement is available in a pen-drive to all 20th ICN meeting attendees in the Congress bag and on-line through <http://www.karger.com/Journal/Home/223977>. abstracts publication.

At the end of the present Poster list a detailed schedule for Poster presentation is included.

T1. Advances in nutrition research

- PO001 TOTAL BODY IRON OF WOMEN RESIDING IN THE PEARL MILLET PRODUCING BELTS OF RURAL BANASKANTHA, GUJARAT, INDIA**
V S. Nambiar, Principal Investigator, Pearl Millet Project-Gujarat, Department of Foods and Nutrition, The M S University of Baroda, Vadodara, Gujarat, India
- PO002 EXCHANGEABLE ZN POOL SIZE AND ZN ABSORPTION FROM SPRINKLES AND TRADITIONAL FOODS IN PAKISTANI INFANTS/TODDLERS**
S S. Ariff, Department of Pediatrics & Child Health, The Aga Khan University, Karachi, Pakistan
- PO003 EFFECT OF DATE PLANTING AND CUTTING ON YIELD AND YIELD COMPONENTS OF BARLEY IN DIFFERENT NITROGEN FERTILIZATION**
F. Bazrafshan, Azad University, Firoozabad, Shiraz, Iran
- PO004 STUDY OF ALLERGENIC PROPERTIES OF A PROTEIN HYDROLYZATE OF RICE ON THE INTESTINAL MUCOSA OF BALB/C MICE IMMUNIZED WITH THE (β-LG)**
S. Addou, Departement de Biologie, faculte des sciences, University d'Oran, Algiers
- PO005 THE EFFECT OF DIFFERENT $\text{NO}_3^- / \text{NH}_4^+$ RATIO ON QUALITATIVE AND QUANTITATIVE CHARACTERISTICS OF APPLE FRUIT CULTIVARS GALA AND GOLAB**
S. Mohammad Sokri, Horticulture Department, Faculty of Agriculture, University of Tehran, Karaj, Iran
- PO006 ADVANCE ON THE POLYPHENOL-PROTEINS INTERACTION IN FOOD**
J. Xiao, Research Center of Engineering Technology for Extraction of Bioactive Compounds, Anhui Institute of Applied Technology, Suixi Road, Hefei, Anhui, PR China
- PO007 FRUIT QUALITY AND QUANTITY AND N, K, CA CONCENTRATION OF 'GALA' AND 'GOLAB' APPLE (MALUS DOMESTICA B.) TREES AS INFLUENCED BY DIFFERENT $\text{NO}_3^- / \text{NH}_4^+$ RATIO**
S. Mohammad Sokri, Horticulture Department, Faculty of Agriculture, University of Tehran, Karaj, Iran
- PO008 FONIO (DIGITARIA EXILIS) AS A STAPLE FOOD IN MALI: AN APPROACH TO UPGRADE NUTRITIONAL VALUE**
N. Fanou-Fogny, Department Nutrition and Food Sciences, Faculty of Agronomic Sciences, University of Abomey Calavi, Abomey Calavi, Republic of Benin
- PO009 IMPROVEMENT OF YIELD, PROTEIN, ASH AND IRON CONCENTRATION OF FORAGE MAIZE 704 BY USING POTTASIAM, MICRONUTRIENTS AND DROUGHT STRESS**
A. Gholynejad, Assistant Professor, Department of Agronomy, Payame Noor University, Urmia, Iran
- PO010 CONSUMPTION AND CONTRIBUTION OF BISCUIT TO VITAMIN A DIETARY INTAKE OF PRESCHOOLERS IN POOR-URBAN METROPOLITAN LAGOS**
F. Uchendu, Department of Health Sciences, School of Science and Technology, National Open University of Nigeria, Nigeria
- PO011 MONITORING IMMUNE MODULATION BY NUTRITION IN THE GENERAL POPULATION: IDENTIFYING AND SUBSTANTIATING EFFECTS ON HUMAN HEALTH**
R. Albers, Nutrilabs, Rockanje, The Netherlands
- PO012 ASSESSING IRAN'S ENGLISH PUBLICATIONS IN THE FIRST DECADE OF THE 21ST CENTURY IN IRAN: THE NECESSITY OF NUTRITION RESEARCH MAP**
M. Hajifaraji, Department of Nutrition & Food Policy, National Nutrition & Food Technology Research Institute, Faculty of Nutrition & Food Technology, Shahid Beheshti Medical University, Tehran, I. R. Iran
- PO013 COMPARISON STUDY BETWEEN THE EFFECT OF OAT AND BARLEY BREADS ON SERUM GLUCOSE AND LIPID PROFILES IN DYSLIPIDEMIC AND TYPE 2 DIABETIC SUBJECTS (A SHORT-TERM TRIAL)**
M. Hajifaraji, Department of Nutrition & Food Policy, National Nutrition & Food Technology Research Institute, Faculty of Nutrition & Food Technology Shahid Beheshti Medical University, Tehran, I. R. Iran
- PO014 EVALUATIONS OF FRUIT QUALITY AND NITROGEN, POTASSIUM, AND CALCIUM CONCENTRATION OF APPLE (MALUS DOMESTICA BORKH. CVS. GALA AND GOLAB) GROWN WITH FIVE TREATMENTS OF $\text{NO}_3^- : \text{NH}_4^+$ RATIOS WERE MADE IN POT CULTURE**
S. Mohammad Sokri, Horticulture Department, Faculty of Agriculture, University of Tehran, Karaj, Iran
- PO015 IMPACT OF POSTPRANDIAL GLYCAEMIA ON HEALTH: ROLE IN BODY WEIGHT CONTROL AND DIABETES PREVENTION**
A. Meheust, ILSI Europe, Brussels, Belgium
- PO016 NUTRACEUTICALS IN PREVENTION AND FIRST LINE ERADICATION OF HELICOBACTER PYLORI- FROM NATURAL MEDICINE TO SCIENTIFIC EVIDENCE**
D S S. Bonny, National Nutritional Program, Abidjan Cote d'Ivoire
- PO017 THE ROLE OF BREAKFAST ENERGY IN TOTAL DAILY ENERGY INTAKE**
M. Moabom, Tamale Polytechnic, Ghana
- PO018 IMPROVEMENT OF SOME METABOLIC SYNDROME PARAMETERS ON RATS AND HUMANS BY HYPODAHNIS ZENKERI**
C. Etoundi, Department of Biochemistry, University of Douala, Douala, Cameroon
- PO019 FOOD BEHAVIOR AND EATING HABITS IN SCHOOL CHILDREN**
F. Tebbani, Department of nutrition, Institut of Nutrition, Food and Food Technologies, Constantine, Algeria
- PO020 THE FUTURE OF PERSONALISED NUTRITION: IS PHENOTYPIC CLUSTERING THE KEY?**
C O. Donovan, Institute of Food & Health, University College Dublin, Ireland

- PO021 RELATION BETWEEN DIETARY PATTERN AND INFERTILITY IN MEN AND WOMEN**
B. Hosseini, Department of nutrition, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- PO022 NUTRITIONAL QUALITY AND SAFETY OF POTENTIAL COMPLEMENTARY FOOD BLENDS PRODUCED AT SMALL SCALE INDUSTRIES IN TANZANIA**
E. Towo, Tanzania Food and Nutrition Centre, Tanzania
- PO023 GENOME HEALTH EFFECT OF ZINC SUPPLEMENT IN ELDERLY AUSTRALIAN POPULATION WITH LOW ZINC STATUS**
R. Sharif, Universiti Kebangsaan, Malaysia
- PO024 ZINC DEFICIENCY INCREASES TELOMERE LENGTH AND IS ASSOCIATED WITH INCREASED TELOMERE BASE DAMAGE, DNA STRAND BREAKS AND CHROMOSOMAL INSTABILITY**
R. Sharif, Universiti Kebangsaan Malaysia
- PO025 ASSOCIATION OF PLACE, TIME OF MEAL AND TYPE OF MACRONUTRIENT CONSUMED WITH A SUCCESSFUL PROGRAM OF WEIGHT LOSS**
E. Morales-Falo, Departamento De Quimica Agricola, Universidad Autonoma De Madrid, Spain
- PO026 TRULY NIACIN DEFICIENCY IN QUINOLINIC ACID PHOSPHORIBOSYLTRANSFERASE (QPRT) KNOCKOUT MICE**
K. Shibata, The University of Shiga Prefecture, Hikone, Japan
- PO027 DEVELOPMENT OF VALUE ADDED "DEHRORI" A TRADITIONAL CHHATTISGARHI, (INDIAN) PRODUCT AND ITS IMPACT ON SCHOOL CHILDREN**
A. Joglekar, Department of Nutrition, Govt. G.N.A. College, Bhatapara, Pt.R.S.University, Raipur, Chhattisgarh, India
- PO028 NUTRITIONAL FACTS, TRACE ELEMENTS AND SENSORY ACCEPTABILITY OF BOILED INCUBATED FERTILIZED DUCK EGG (BALUT), AN INDIGENOUS FOOD IN THE PHILIPPINES**
N. Sanceda, Department of Nutrition and Food Science, Ochanomizu University, Tokyo, Japan
- PO029 STUDY ON ASSESSMENT OF FOOD SAFETY AND HYGIENE PRACTICES AMONG STREET FOOD VENDORS IN DELHI, INDIA**
C. Thakur, Public Health Foundation of India, India
- PO030 PLASMA 25-HYDROXYVITAMIN D DETERMINES THE ASSOCIATION OF INSULIN RECEPTOR SUBSTRATE 1 RS2943641 WITH TYPE 2 DIABETES AND INSULIN RESISTANCE**
J.S. Zheng, Department of Food Science and Nutrition, Zhejiang University, Hangzhou, China
- PO031 AQUEOUS GARLIC EXTRACT MITIGATE HYPERCHOLESTEROLEMIA AND HYPERGLYCEMIA; RABBIT EXPERIMENTAL MODELLING**
H.A.R. Suleria, Department of Food Science, Government College University Faisalabad, Pakistan
- PO032 EFFECTS OF RESVERATROL ON THE METHYLATION OF LIPOGENIC ENZYME GENES IN 3T3-L1 ADIPOCYTES**
G. Alberdi, University of The Basque Country, Vitoria-Gasteiz, Spain
- PO033 THE DIFFERENTIAL EFFECTS OF FULL-TIME AND PART-TIME WORK STATUS ON BREASTFEEDING**
D. Dewi, Lecture In University of Respati Yogyakarta, Sleman Yogyakarta, Indonesia
- PO034 EXPLOITING THE POTENTIAL HEALTH BENEFITS OF WATER YAM**
F. Wireko-Manu, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana
- PO035 EFFECT OF RESVERATROL METABOLITES ON ADIPOKINE EXPRESSION AND SECRETION IN 3T3-L1 MATURING ADIPOCYTES**
A. Lasa Elgezua, University of Basque Country, Vitoria, Spain
- PO036 LIPID PROFILE OF RATS FED WHITE GUINEA YAM (DIOSCOREA ROTUNDATA) DIETS**
J. Lawal, University of Calabar, Calabar, Nigeria
- PO037 EFFECTS OF LIVE LACTOBACILLUS PARACASEI ON PLASMA LIPID CONCENTRATION IN RATS FED AN ETHANOL-CONTAINING DIET**
N. Komatsuzaki, Department of Human Nutrition, Seitoku University, Matsudo, Japan
- PO038 EFFECTIVENESS OF HOME FORTIFICATION WITH MULTI-MICRONUTRIENT POWDERS IN BHUTANESE REFUGEE CHILDREN: A FIVE YEAR FOLLOW-UP**
O. Bilukha, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, Georgia, USA
- PO039 LIPID PROFILE AND PREVALENCE OF CARDIOVASCULAR RISK FACTORS IN A MEDITERRANEAN POPULATION OF WOMEN IN NUTRITION TRANSITION**
M. Mziwira, Training and Research Unit On Nutrition & Food Sciences. Chouaib Doukkali University. School of Sciences, El Jadida, Morocco
- PO040 HEAVY METAL EXPOSURE ASSESSMENT IN KOREAN ADULTS**
K. Sungok, Kyung Hee University, Seoul, Korea
- PO041 DIOXINS AND DIOXIN-LIKE PCBS LEVELS IN FOOD AND ANIMAL FEED IN KUWAITI MARKET**
B. Dashti, Kuwait Institute For Scientific Research, Safat, Kuwait
- PO042 ASSOCIATION GLN223ARG POLYMORPHISM OF GENE LEPR, LEVELS OF LEPTINA AND NOURISHING HABITS IN MEXICAN ADOLESCENTS WITH MORBID OBESITY**
C. Beltran, Behavioral Feeding and Nutrition Research Center, Universidad de Guadalajara- CUSUR, CD. Guzman, Jalisco, Mexico
- PO043 THE IMPACT OF THE FIVE YEAR NUTRITION PROJECT IN SELENGE PROVINCE OF MONGOLIA**
B. Khurlee, Asian Development Bank, Ulaanbaatar, Mongolia
- PO044 EFFECT OF DIFFERENT CONCENTRATIONS OF VITAMIN A ON THE CHICK BROILER EMBRYO DEVELOPMENT**
A. Hussein, University of Basrah, Iraq
- PO045 BIOCHEMICAL MARKERS AND BONE MINERAL DENSITY IN CHILDREN WITH PHENYLKETONURIA**
H. Koura, Department of pediatrics, National Research Centre, Cairo, Egypt
- PO046 THE PROTECTIVE EFFECT OF SESAME OIL AGAINST NONALCOHOLIC STEATOHEPATITIS INDUCED HEPATIC FIBROSIS IN MICE**
S. Chien, Department of Food and Beverage Services, Tainan University of Technology, Tainan, Taiwan
- PO047 ANALYSIS OF MICRO NUTRIENT SUBSTANCE (IRON, FOLIC ACID AND ZINC) IN PREGNANT WOMEN ANEMIA IN BONTONOMPO AND SOUTH BONTONOMPO GOWA REGENCY SOUTH SULAWESI INDONESIA 2012**
M. Syah, Departemen of Nutrition Public Health Faculty Hasanuddin University, Makassar, Indonesia
- PO048 UNHEALTHY DIETARY HABITS IN ADOLESCENTS MIGHT INFLUENCE THE CELLULAR METABOLISM THROUGH AN EFFECT ON MEMBRANE STRUCTURAL PROPERTIES**
F. Barcelo, Clinical and Translational Research Group, University of The Balearic Islands, Palma of Mallorca, Spain
- PO049 LYCOPENE IN NATURE OR CAPSULES FOR SYSTEMIC PHOTOPROTECTION AGAINST ULTRAVIOLET B: A RANDOMIZED AND COMPARATIVE STUDY**
L. Sokoloski, Department of Dermatology, Federal University of Sao Paulo, Brasil

- PO050 EFFECT OF DIETARY FORAGE SOURCE ON EGYPTIAN LACTATING BUFFALOES PERFORMANCE**
M. Adel, Animal production Department, Agriculture Faculty, Cairo University, Egypt
- PO051 HAEMOGLOBIN, SERUM FERRITIN AND C - REACTIVE PROTEIN LEVELS AMONG WOMEN IN PERI-URBAN SETTLEMENTS IN GHANA**
I. Agbemafe, Department of Nutrition and Food Science, University of Ghana, Legon-Ghana
- PO052 HIGH SENSITIVITY C-REACTIVE PROTEIN AND TOTAL ANTIOXIDANT STATUS IN PATIENTS WITH CHRONIC KIDNEY DISEASE, DIABETES AND HYPERTENSION**
H. Oboh, Department of Medical Biochemistry, University of Benin, Benin City, Edo state, Nigeria
- PO053 NUTRIENT COMPOSITION AND DENSITY OF FOUR COMMONLY USED LOCALLY FORMULATED COMPLEMENTARY FOODS IN AKWA IBOM STATE, NIGERIA**
O. Adepoju, Department of Human Nutrition, Faculty of Public Health, College of Medicine, University of Ibadan, Ibadan, Nigeria
- PO054 CONCURRENT NUTRITIONAL DEFICIENCIES AND CARDIO-METABOLIC RISK FACTORS IN BURKINA FASO ADULTS: THE DOUBLE BURDEN OF MALNUTRITION**
H. Delisle, University of Montreal, Department of Nutrition, Montreal, Canada
- PO056 IDENTIFYING FOODS THAT CONTRIBUTES TO SOUTH AFRICANS' HIGH SALT INTAKE**
E. Wentzel-Viljoen, Centre of Excellence for Nutrition, Faculty of Health Sciences, North-West University, USA
- PO057 BIOFORTIFIED BLACK BEANS (PHASEOLUS VULGARIS L.) BASED DIET PROVIDES MORE BIOAVAILABLE IRON IN VITRO (CACO-2) AND IN VIVO (GALLUS GALLUS)**
E. Tako, USDA-ARS, Robert Holley Center For Agriculture and Health, Cornell University, NY, USA
- PO058 GROWTH SUPPRESSION AND NON-APOPTOTIC CELL DEATH BY PYRIDOZAL IS DEPENDENT ON P53 IN THE HUMAN BREAST CANCER CELL LINE MCF-7**
H. Kanouchi, Department of Veterinary Pathobiology, Joint Faculty of Veterinary Medicine, Kagoshima University, Japan
- PO059 CHANGES IN BIOCHEMICAL MARKERS OF VITAMINS AND TRACE MINERALS AFTER FORTIFIED MILK CONSUMPTION**
T. Trinidad, Food and Nutrition Research Institute, Department of Science and Technology, Tagnig City Philippines
- PO060 DIETARY FIBER AND MINERAL AVAILABILITY OF MILLED, BROWN AND OPTIMIZED BROWN RICE OF THE SAME VARIETY**
T. Trinidad, Food and Nutrition Research Institute, Department of Science and Technology, Tagnig City Philippines
- PO061 DOES CARDIOVASCULAR RISK EXISTS IN PREPUBERTAL CHILDREN WITH A HISTORY OF EXTRAUTERINE GROWTH RESTRICTION?**
M. Gil-Campos, Reina Sofia University Hospital, Cordoba, Spain
- PO062 ASSOCIATIONS BETWEEN EATING MEALS, EATING MEALS WHILE WATCHING TV AND WEIGHT STATUS AMONG CHILDREN, 10-12 YEARS: THE ENERGY-CROSS SECTIONAL STUDY**
F N Vik, Department of Public Health, Sport and Nutrition, University of Agder, Norway
- PO063 PPARA GENETIC VARIANT MODIFIES THE RESPONSE AFTER CONSUMPTION OF SKIMMED OR SEMI-SKIMMED MILK ON CARDIOVASCULAR RISK BIOMARKERS**
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- PO064 EFFECTS OF RESVERATROL ON OBESITY-RELATED INFLAMMATION IN ADIPOSE TISSUE OF OBESE ZUCKER RATS**
S. Gomez- Zorita, Department of Nutrition and Food Science, University of the Basque Country (UPV/EHU), Vitoria, Spain
- PO065 GENETIC VARIANTS IN LIPID METABOLISM AND ASSOCIATION WITH CARDIOVASCULAR RISK IN THE CANTOBLANCO PLATFORM OF FOOD AND NUTRITIONAL GENOMICS (GENYAL)**
U. Loria-Kohen, IMDEA-Food Institute, CEI UAM+CSIC, Madrid, Spain
- PO066 APPETITE ASSESSMENT IN HEMODIALYSIS PATIENTS**
G. Kiziltan, Baskent University, Health Science Faculty, Department of Nutrition and Dietetics, Ankara, Turkey
- PO067 CASEIN PHOSPHOPEPTIDES AND CALCIUM BIOAVAILABILITY: AN EXAMPLE OF FUNCTIONAL FOOD**
S. Perego, Dipartimento di Scienze Biomediche per la Salute, University of Milan, Segrate, Italy
- PO068 EXPERIMENTAL ASSESSMENT OF DIETS WITH VARIOUS LEVELS OF CALCIUM AND VITAMIN D**
A. Korolev, Department of Human Ecology and Environmental Hygiene, I. M. Sechenov First Moscow State Medical University, Russia
- PO069 THE INSULIN SENSITIVITY MARKER LEVELS IN NEONATES IS ASSOCIATED TO THEIR MOTHER'S FTO GENE POLYMORPHISMS**
F J. Sanchez-Muniz, Universidad Complutense de Madrid, Madrid, Spain
- PO070 ADOLESCENT ABILITY TO SELECT HEALTHY FOOD USING TWO DIFFERENT FRONT-OF-PACK FOOD LABELS: A CROSS-OVER STUDY**
N. Babio, Departament de Bioquímica i Biotecnologia, Hospital Universitari de Sant Joan, IISPV, Universitat Rovira i Virgili, Centro de Investigación Biomedica en Red Fisiopatología de la Obesidad y Nutrición (CIBEROBN). Instituto de Salud Carlos III, Reus, Spain
- PO071 EFFECTS OF UNDERNUTRITION DURING DEVELOPMENT ON POST-DEPRIVATION FOOD INTAKE AND BODY WEIGHT ON WISTAR RATS**
A. Zepeda-Salvador, Behavioral Feeding and Nutrition Research Center, CUSur-University of Guadalajara, Mexico
- PO072 LOW BIRTH WEIGHT CHARACTERIZATION AND RELATED FACTORS, COLOMBIA 2004-2008**
C. Roncancio Melgarejo, Field Epidemiology Training Program Colombia
- PO073 ILSI PERSPECTIVE - ILSI EUROPE MARKER INITIATIVE: WHAT MAKES A MARKER A VALID MARKER?**
A. Chiodini, University of LEUVEN, Departement of Endocrinology, Leuven, Belgium
- PO074 CORRELATIONS BETWEEN BODY FAT AND BODY MASS INDEX IN AUSTRIAN CHILDREN**
V. Hasenegger, Institute of Nutritional Sciences, University of Vienna, Vienna, Austria
- PO075 EFFECT OF COOKING ON PHYSICAL PROPERTIES, SENSORY EVALUATION, ANTHOCYANINE, AND POLYPHENOLIC CONTENTS OF PIGMENTED RICE GRAINS**
L. Lotfy, Department of Home Economics, Faculty of Specific Education, Kafrelsheikh University, 33516 Kafrelsheikh, Egypt
- PO076 PROTEIN QUALITY OF HIBISCUS SABDARIFFA L. (ROSELLE) SEEDS CULTIVATED IN TWO AGRO ECOLOGICAL AREAS IN CAMEROON**
G. Maffo Tazoho, Department of Biochemistry, Faculty of Science, University of Dschang, Cameroun
- PO077 SAMBUCUS EBULUS FRUIT EXTRACTS REDUCE TNF α AND IL6 EXPRESSION ELEVATED IN ETHANOL-TREATED 3T3-L1 PREADIPOCYTES**
D. Ivanova, Department of Biochemistry, Molecular Medicine and Nutrigenomics, Medical University Varna, Bulgaria
- PO078 EFFECT OF HEMODIALYSIS AND PERITONEAL DIALYSIS ON MALNUTRITION, INFLAMMATION AND ATHEROSCLEROSIS (MIA) SYNDROME IN CHRONIC RENAL FAILURE PATIENTS**
H F. Tbahrity, Laboratoire De Nutrition Clinique Et Metabolique, Faculte Des Sciences, Universite D'Oran, Algerie

- PO079 COMPARISON OF COMPONENTS OF DIET OF MOTHERS WHO DELIVERED FULL-TERM BABIES, PRETERM BABIES, AND SMALL FOR GESTATIONAL AGE INFANTS**
R. Bobiński, Faculty of Health Science, University of Bielsko-Biala, Bielsko-Biala, Poland
- PO080 DETERMINANTS OF SEVERE MALNUTRITION OF CHILDREN AND OBSTACLES OF ITS MANAGEMENT AT OUAGADOUGOU (BURKINA FASO)**
E W R. Compaore, Department of Biochemistry-Microbiology, CRSBAN, University of Ouagadougou, Ouagadougou, Burkina Faso
- PO081 NOVEL STRATEGY FOR PREVENTING POSTPARTUM DEPRESSION**
Y. Dowlati, Institute of Medical Sciences, University of Toronto, Toronto, Ontario, Canada
- PO083 DOCOSAHEXAENOIC ACID INHIBITS TNF α -INDUCED ICAM-1 EXPRESSION VIA ATTENUATING EARLY GROWTH RESPONSE-1 EXPRESSION IN EA.HY926 CELLS**
H W. Chen, China Medical University, China
- PO085 CULTURAL INFLUENCES, VITAMIN D STATUS AND CARDIO-METABOLIC HEALTH IN EAST ASIAN ADULTS LIVING IN AUSTRALIA**
S. Guo, National Centre For Epidemiology & Population Health, The Australian National University, Australia
- PO086 A STUDY OF DEVELOPMENT THE SERVING SIZE OF FOOD AND NUTRIENT RICH INDEX IN TAIWAN**
S C. Hsu, Department of Tourism and Hospitality Management, Kainan University, Taoyuan, Taiwan
- PO087 ANTIOXIDANT STATUS OF ALLIUM SCHOENOPRASUM TISSUE CULTURE ORGANS**
D. Stajner, Faculty of Agriculture, Novi Sad, Serbia
- PO088 MATERNAL EMPLOYMENT AND NUTRITIONAL STATUS OF PRE-SCHOOL CHILDREN IN RESOURCE LIMITED SETTINGS OF OYO-STATE, NIGERIA**
A. Michael, The Federal Polytechnic, Bauchi, Nigeria
- PO089 ASSESSMENT OF DIETARY HABITS IN OBESE PATIENTS**
M. Dominguez-Lopez, Endocrinology and Nutrition Service, Carlos Haya Hospital, Malaga, Spain
- PO090 ALIMENTATE SANO: AN INTERNET TOOL TO EVALUATE AND PROMOTE HEALTHY LIFESTYLES FOR PREVENTION OF CHRONIC DISEASES**
G. Echeverria, Centro De Nutricion Molecular Y Enfermedades Cronicas, Pontificia Universidad Catolica, Santiago de Chile, Chile
- PO091 NUTRITIONAL FACTORS INFLUENCE BONE MICROARCHITECTURE DURING GROWTH. SHAHMORADI N, IULIANO-BURNS S, WANG XF, GHASEM-ZADEH A, ZEBAZE R, WANG Q AND SEEMAN E DEPTS OF ENDOCRINOLOGY AND MEDICINE**
N. Shahmoradi, Endocrinology, Nutrition, Austin Health, University of Melbourne, Melbourne, Australia
- PO092 EVALUATION OF AVAILABLE ENERGY OF SEVERAL DIETARY FIBER MATERIALS BASED ON THE FERMENTABILITY FROM BREATH HYDROGEN EXCRETION IN HEALTHY SUBJECTS**
T. Oku, University of Nagasaki Siebold, Japan
- PO093 AN ASSESSMENT OF DIETARY FACTORS IN JAPANESE NON-ALCOHOLIC FATTY LIVER DISEASE PATIENTS AND THE RELATIONSHIP WITH BLOOD PARAMETERS**
H. Tatsumi, Graduate School of Life and Environmental Sciences, Kyoto Prefectural University, Kyoto, Japan
- PO094 IMMUNOCYTIC PROFILES AND RESPONSES OF HYPERURICEMIC RATS FED WITH CASEIN OR SOY PROTEIN COMBINED WITH PALM OR SAFFLOWER OIL**
H-C. Lo, Department of Nutritional Science, Fu Jen Catholic University, New Taipei City, Taiwan
- PO095 CARDIOMETABOLIC RISK IN RELATION TO OBESITY GRADES AMONG EGYPTIAN SCHOOL STUDENTS**
S. El-Masry, Biological Anthropology Dept., National Research Centre, Egypt
- PO096 ROLE OF SLOW DIGESTING CARBOHYDRATES DURING PREGNANCY FOR IMPROVING LEARNING AND MEMORY IN OFFSPRING OF OBESE RATS. (NIGOHEALTH STUDY)**
M J. Martin, Discovery R&D, Abbott Nutrition, Granada, Spain
- PO097 ROLE OF SLOW DIGESTING CARBOHYDRATES DURING PREGNANCY FOR PREVENTING ADIPOSITY PROGRAMMING IN OFFSPRING OF OBESE RATS. (NIGOHEALTH STUDY)**
J M. Lopez-Pedrosa, Discovery R&D, Abbott Nutrition, Granada, Spain
- PO098 DEMISPAN MAY BE A BETTER INDICATOR OF NUTRITIONAL STATUS AMONG THE AGED IN THE GREATER ACCRA REGION**
R K D. Turkson, Dept. of Nutrition, National University of Lesotho, Lesotho
- PO099 MEASURING FRUIT AND VEGETABLE CONSUMPTION – USE OF COMBINED OR SINGLE BIOMARKERS**
J. Woodside, Queen's University Belfast, Northern Ireland, UK
- PO100 CONTRIBUTION OF NUCLEAR TECHNIQUES TO NUTRITION PROGRAMMES IN LATIN AMERICA**
V. Ruiz, Department of Biochemistry and Physiology, Institute of Nutrition, Havana, Cuba
- PO101 POMEGRANATE EXTRACT SUPPLEMENTATION INFLUENCES BLOOD PRESSURE AND HOMA-IR IN HUMAN VOLUNTEERS: A 4-WEEK RANDOMISED, DOUBLE-BLIND, PLACEBO-CONTROLLED PILOT STUDY**
E. Al-Dujaili, Dietetics, Nutrition & Biological Sciences, Queen Margaret University, Edinburgh, UK
- PO102 ROLE OF SLOW-DIGESTING CARBOHYDRATES DURING PREGNANCY FOR IMPROVING ADIPOSE TISSUE GLUCOSE TRANSPORT AND INSULIN SIGNALING IN OBESE RATS' OFFSPRING (NIGOHEALTH STUDY)**
M D. Giron, Department of Biochemistry and Molecular Biology, School of Pharmacy, University of Granada, Spain
- PO103 BODY MASS INDEX AND ITS RELATIONSHIPS WITH VISCERAL AND SUBCUTANEOUS ADIPOSITY IN CUBAN CHILDREN AND ADOLESCENTS**
M. Esquivel, Department of Human Growth and Development. Julio Trigo Lopez Medical School, Medical University of Havana, Cuba
- PO104 GENETIC CHARACTERISTICS OF ANTIOXIDANT ENZYMATIC DEFENSE IN MEXICAN POPULATION WITH OVERWEIGHT AND OBESITY DEGREES I TO III**
C. Hernandez-Guerrero, Departamento de Salud, Universidad Iberoamericana Ciudad de Mexico, Mexico
- PO105 LEPTIN, VITAMIN D AND CARDIORESPIRATORY FITNESS AS RISK FACTORS FOR INSULIN RESISTANCE IN EUROPEAN ADOLESCENTS; SEX-DIFFERENCES IN THE HELENA STUDY**
D. Jimenez-Pavon, GENUDE: "Growth, Exercise, Nutrition and Development" Research Group. Department of Physiotherapy and Nursing, Faculty of Health Sciences, University of Zaragoza, Zaragoza, Spain
- PO106 FOCAL NUTRITION LEARNING CENTER: DOES THE USE OF LOCAL FOODS AND PRACTICES IMPACT CHILD MALNUTRITION? A CASE OF BURUNDI**
A. Madagasha, World Vision Burundi, Burundi

- PO107 PROJECT ENERGIZE: REDUCING CHILDHOOD OBESITY; TRANSLATION FROM A RANDOMISED CONTROLLED TRIAL TO AN EFFECTIVE REGIONAL HEALTH SERVICE**
E. Rush, Child Health Research, Auckland University of Technology, Auckland, New Zealand
- PO108 THE THYROID HORMONE T3 IMPROVES ANTIOXIDANT CAPABILITY AND SURVIVAL OF HEPG2 DURING IN VITRO CULTURE**
X. Tang, State Key Laboratory of Food Science and Technology, Jiangnan University, Wuxi, Jiangsu, China
- PO109 ACCEPTABILITY AND EFFICACY OF READY-TO-USE THERAPEUTIC FOOD IN 6-24 MONTHS OLD CHILDREN WITH SEVERE ACUTE MALNUTRITION IN BANGLADESH**
S. Huq, Centre For Nutrition and Food Security, International Centre For Diarrhoeal Disease Research, Bangladesh (icddr), Bangladesh
- PO110 NUTRITIONAL CONTRIBUTION OF STREET FOODS TO THE DIET OF PEOPLE IN DEVELOPING COUNTRIES**
N. Steyn, Population Health, Health Systems and Innovation, Human Sciences Research Council, South Africa
- PO111 INFLUENCE OF A COLD-PRESSED RAPESEED OIL ON SERUM LIPOPROTEINS IN RELATION TO 75G/A APO AI GENOTYPE- PRELIMINARY STUDY**
M. Wlodarczyk, Department of Nutrigenomics, National Food and Nutrition Institute, Warsaw, Poland
- PO112 THE EFFECT OF APPLE JUICE RICH IN CHLOROGENIC ACID ON MMP-9 SECRETION BY LPS-STIMULATED NEUTROPHILS- PRELIMINARY REPORT**
M. Wlodarczyk, Department of Nutrigenomics, National Food and Nutrition Institute, Warsaw, Poland
- PO113 URINARY VITAMIN C EXCRETION IN 24-HOUR URINE SAMPLE COLLECTIONS AS A COMPLIANCE BIOMARKER IN FRUIT AND VEGETABLE INTERVENTION STUDIES**
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- PO114 LEVEL OF ADHERENCE TO A MEDITERRANEAN DIET AND RELATIONSHIP WITH COGNITIVE FUNCTION IN AN AUSTRALIAN SAMPLE**
K. Murphy, Nutritional Physiology Research Centre, University of South Australia, Adelaide, South Australia, Australia
- PO115 THE ASSOCIATION BETWEEN SIRT1 GENE AND KOREAN CHILDREN OBESITY: SEOUL-KURO COHORT STUDY**
S.L. Choi, Department of Food and Nutrition, Sungshin Womens University, Seoul, Republic of Korea
- PO116 EVALUATION OF POLYPHENOLS AND ANTIOXIDANT ACTIVITY OF COFFEE AND COFFEE BEVERAGES**
G. Kroyer, Institute of Chemical Engineering, University of Technology, Vienna, Austria
- PO117 INFLUENCE OF MATERNAL ALIMENTATION ON OUTCOME OF PREGNANCY AT CONSTANTINE (ALGERIA)**
D.J. Touati-Mecheri, Nutritional Department, INATAA, University Constantine1, Algeria
- PO118 GLOBAL ACUTE MALNUTRITION (WASTING) IN UGANDA WHAT'S WORKING; WHAT'S FAILING?**
H. Namusoke, Mwanamugimu Nutrition Unit, Mulago National Referral Hospital, Kampala, Uganda
- PO119 THE IMPACT OF A SORGHUM BASED COMMERCIAL PRODUCT ON NUTRITIONAL STATUS OF CHILDREN**
J. Kearney, Hospitality, Tourism & PR Management Department, Vaal University of Technology, Vanderbijlpark, Gauteng, South Africa
- PO120 IMPLICATION OF SELENIUM IN THE METABOLIC SYNDROME PROGRAMMING**
R.M. Rua, Department of Physiology, University of Seville, Spain
- PO121 EXCESS WEIGHT AT ANY AGE AFTER BIRTH IS ASSOCIATED WITH OBESITY IN MID-CHILDHOOD: THERE ARE NO CRITICAL PERIODS**
C. Corvalan, INTA, University of Chile, Chile
- PO122 EFFECTS OF THE UNSAPONIABLE FRACTION OF POMACE OLIVE OIL ON THE COMPOSITION OF POSTPRANDIAL TRIACYLGLYCEROL-RICH LIPOPROTEINS**
J. Sanchez Perona, Instituto de la Grasa (CSIC), Sevilla, Spain
- PO123 LOW BIRTH WEIGHT RATES HIGHER AMONG BANGLADESHI NEONATES MEASURED DURING ACTIVE BIRTH SURVEILLANCE COMPARED TO NATIONAL SURVEY DATA**
R. Klemm, Johns Hopkins University, Baltimore, USA
- PO124 SCOTTISH DIETITIANS KNOWLEDGE AND PRACTICE OF OBESITY AND WEIGHT MANAGEMENT; INFLUENCE OF CLINICAL GUIDELINES**
C. Hankey, University of Glasgow, Glasgow, UK
- PO125 IS THE RISK OF POVERTY A DETERMINANT OF IMPAIRED NUTRITION IN ITALY?**
M. Baldini, Department of Food Sciences and Technologies, University of Bologna, Italy
- PO126 FECAL CALPROTECTIN AMONG GUATEMALAN PRESCHOOL CHILDREN: ANTHROPOMETRIC AND PARASITOLOGICAL DISTRIBUTION**
M.E. Romero-Abal, Center For Studies of Sensory Impairment, Aging and Metabolism -CESSIAM-, Guatemala
- PO127 INVESTIGATION OF THE USE OF IODIZED SALT IN BREAD PRODUCTION FOR THE PREVENTION OF IODINE DEFICIENCY IN THE RUSSIAN FEDERATION**
G. Garrett, Large-Scale Food Fortification, Global Alliance For Improved Nutrition, Geneva, Switzerland
- PO128 OBSERVED SUBSTITUTIONS IN A 40-DAY ROTATING MENU ON THREE GOVERNMENT-SPONSORED DAY-CARE CENTERS IN THE GUATEMALAN HIGHLANDS**
U. Perez-Lima, Center For Studies of Sensory Impairment, Aging and Metabolism -CESSIAM-, Guatemala
- PO129 HOW MUCH FOR DOING IT RIGHT?**
C. Lopez-Martin, Department of Pharmacy and Nutrition, AS Hospital Costa Del Sol, Marbella, Malaga, Spain
- PO130 MODERATE AND MILD ANEMIA AS PUBLIC HEALTH PROBLEM IN CUBAN PRESCHOOL CHILDREN**
B. Basabe Tuero, Institute Of Nutrition And Food Hygiene, La Habana, Cuba
- PO131 TASTE AND NUTRITION EFFECT ON THE SUGAR APPETITE OF RATS**
A. Martinez, Feeding and Nutritional Behavioral Research Center-University of Guadalajara, Mexico
- PO132 EFFECT OF NUTRITION EDUCATION AND BIWEEKLY IFA SUPPLEMENTATION ON ANAEMIA RELATED KNOWLEDGE AND IRON STATUS OF UNDERPRIVILEGED ADOLESCENT GIRLS**
A. Malhotra, Department of Food Technology, Lakshmi Bai College, University of Delhi, Delhi, India
- PO133 POLYMORPHISMS IN THE FATTY ACID DESATURASE GENES AND DIET ARE IMPORTANT DETERMINANTS OF INFANT DOCOSAHEXAENOIC ACID STATUS**
L. Lauritzen, Department of Nutrition, Exercise & Sports, University of Copenhagen, Frederiksberg, Denmark
- PO134 DIET IMPACT ON VITAMIN B12 AND FOLIC ACID CONCENTRATION AS AN ELEMENT OF THERAPY IN PERSONS WITH THE LDL-R GENE MUTATION**
A. Jarosz, Center of Health Promotion, Food and Nutrition Institute, Warsaw, Poland

- PO136 MALNUTRITION-INFLAMMATION SCORE: A PREDICTOR OF MORTALITY IN HEMODIALYSIS PATIENTS**
C. Garagarza, Department of Nutrition and Nephrology, Dialverca - Dialysis Unit, Forte da Casa, Lisboa, Portugal
- PO137 A PUBLIC HEALTH GENOMICS PERSPECTIVE FOR OBESITY**
C. Brettfield, Department of Nutritional Sciences, University of Vienna, Althanstrasse 14, A-1090 Vienna, Austria
- PO138 POSYANDU SWASEMBADA MODEL AS AN EFFORT TO SAVE VICTIM CHILDREN IN MERAPI MOUNTAIN BY LOSS GENERATION**
S. Ardiansyah, Nutrition Departement, Health Polytechnic of Malang, Indonesia
- PO139 THE ASSOCIATION OF SERUM LIPID PROFILE WITH SCD1 DESATURASE INDICES IN RED BLOOD CELL MEMBRANES.**
Y. Sone, Institute of Environmental Science for Human Life, Ochanomizu University, Bunkyo-ku, Tokyo, Japan
- PO141 EFFECTS OF DIETARY CITRIC ACID ON ENERGY METABOLISM OF THE SKELETAL MUSCLES AND LIVER IN MICE**
Y. Hara, Graduate School of Human Life Sciences, Showa Women's University, Tokyo, Japan
- PO142 HUMAN AMYLASE GENE COPY NUMBER VARIATION BETWEEN CAUCASIAN AND ASIAN ADULTS**
F. Atkinson, Human Nutrition Unit, School of Molecular Bioscience, University of Sydney, NSW, Australia
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M. Nakade, Department of Nutritional Epidemiology, National Institute of Health and Nutrition, Tokyo, Japan
- PO144 PHYSIOLOGICAL BENEFITS OF GLUTAMATE AND DEVELOPMENT OF HANDY GLUTAMATE METER FOR FOOD TASTE MANAGEMENT**
Y. Fujishima, Ajinomoto Co., Inc., Japan
- PO145 SER/TER LPL GENE POLYMORPHISM, ARG158CYS AND CYS112ARG APOE GENE POLYMORPHISMS ARE DIET EFFICIENCY MARKERS IN OBESE PATIENTS**
O. Kirillova, Institute of Nutrition RAMS, Moscow, Russian Federation
- PO146 COMPARISON OF MACRONUTRIENT AND VITAMIN INTAKE BETWEEN AUSTRIAN VEGETARIAN AND OMNIVORE**
K. Wagner, Institute of Nutritional Sciences, Vienna, Austria
- PO147 URINARY IODINE EXCRETION LEVEL IS POSITIVELY ASSOCIATED TO PHYSIOLOGICAL STATUS OF FILIPINO WOMEN**
M. Serafico, Food and Nutrition Research Institute, Department of Science and Technology, Taguig City, Indonesia
- PO148 FIRST FOOD FOR INFANTS**
S. Hernes, Department of Public Health, Sport and Nutrition, University of Agder, Kristiansand, Norway
- PO149 PROTEOMIC ANALYSIS OF ARGININE METHYLATED PROTEINS IN RAT BRAIN**
M. Kimoto, Department of Nutritional Science, Faculty of Health and Welfare Science Okayama Prefectural University, Japan
- PO150 FACTORS ASSOCIATED WITH BREASTFEEDING RATES AT BIRTH AND DISCONTINUATION BEFORE ONE MONTH, IN FRANCE IN 2012**
B. Salanave, Institut De Veille Sanitaire, USEN, 74 rue Marcel Cachin, Bobigny, France
- PO151 LOWER BETAINE INCREASES THE RISK OF NON-ALCOHOLIC FATTY LIVER DISEASE IN PATIENTS CARRYING THE CC GENOTYPE OF CHDH RS9001**
H. Zhu, Department of Nutrition, Sun Yat-Sen University, Guangzhou, Guangdong, China
- PO152 FACTOR ANALYSIS OF PATIENTS' SATISFACTION QUESTIONNAIRE TOWARD HOSPITAL FOODSERVICE IN A GOVERNMENT HOSPITAL IN MALAYSIA**
R. Jamaluddin, Universiti Putra Malaysia, Malaysia
- PO153 EFFECTS OF GLUCOSE AND MAGNESIUM IN WATER SOLUTIONS ON WATER ABSORPTION IN THE SMALL INTESTINE**
M. Tokunaga, Department of Nutrition and health Science, Fukuoka Women's University, Japan
- PO154 PUPS OF DAMS FED RESTRICTED DIET DURING LACTATION CONSUME LARGER AMOUNT OF FAT TO ACHIEVE OPTIMAL GROWTH AFTER WEANING**
A. Sato, Department of Human Nutrition, Seitoku University, Matsudo, Chiba, Japan
- PO155 THE EFFECTS OF BETA GLUCAN ADMINISTRATION ON IMMEDIATE EARLY GENE IN THE BRAIN DURING EXHAUSTIVE EXERCISE**
J. H. Seo, Division of Sports Science, Baekseok University, Cheonan, Chungcheongnam-do, Korea
- PO156 FUNCTIONALITY OF MILK FERMENTED DRINKS AT BOSNIA AND HERZEGOVINA MARKET**
Z. Saric, Department of Food Science, Faculty of Agriculture and Food Sciences, University of Sarajevo, Sarajevo, Bosnia and Herzegovina
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D. Gille, Federal Department of Economic Affairs, Education and Research EAER, Agroscope Liebefeld-Posieux Research Station ALP, Berne, Berne, Switzerland
- PO158 BENEFICIAL ANTIOXIDANT EFFECTS OF POLYPHENOL-RICH EXTRA-VIRGIN OLIVE OIL IN HEALTHY VOLUNTEERS**
M. J. Oliveras Lopez, Department of Molecular Biology and Biochemical Engineering, University of Pablo de Olavide of Seville, Seville, Spain
- PO159 IMPROVEMENT OF NUTRITIONAL PROPERTIES IN FRANKFURTERS BY FATTY ACID MODIFICATION**
L. Salcedo-Sandoval, Instituto De Ciencia Y Tecnologia De Alimentos Y Nutricion (ICTAN-CSIC), Madrid, Spain
- PO160 HEALTH BENEFITS OF WHOLE GRAIN WHEAT: INTERVENTION STUDY CLARIFYING UNDERLYING MECHANISMS AND THE ROLE OF POLYPHENOLS BOUND TO DIETARY FIBRE**
V. Fogliano, University of Naples, Naples, Italy
- PO161 MAINTAINING CHANGE: WHAT DIFFERENCE DOES PARTICIPATING IN AN INTENSIVE DIETARY INTERVENTION MAKE FIVE YEARS ON?**
S. L. O'Reilly, Centre for Physical Activity and Nutrition Research, Deakin University, Australia
- PO162 INTRACELLULAR METABOLISM OF ISOFLAVONES IN HUMAN ENDOTHELIAL CELLS**
N. Toro Funes, Department of Nutrition and Food Science, Universidad De Barcelona, Santa Coloma de Gramenet, Spain
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M. F. Dalane, Faculty of Health and Sport, University of Agder, Kristiansand, Norway
- PO164 DIFFERENT SOURCES OF DIETARY LIPIDS: EFFECT ON LIPID PROFILE OF GROWING RATS**
P. Perris, Nutrition and Food Science, University of Buenos Aires. Faculty of Pharmacy and Biochemistry, Argentina
- PO165 HIGH FAT LEVEL DIETS: IMPACT ON FATTY ACID COMPOSITION OF SERUM AND THYMUS OF ADULT RATS**
C. Silva, Nutrition and Food Science, University of Buenos Aires, Faculty of Pharmacy and Biochemistry, Argentina
- PO166 BENEFITS OF LEGUME PROTEIN HYDROLYZATES AND AEROBIC INTERVALLIC EXERCISE ON VARIOUS PARAMETERS OF METABOLIC SYNDROME**
A. Andrade, Department of Physiology, School of Pharmacy, Institute of Food, Science and Technology, University of Granada, Granada, Spain

- PO167 THE EFFECT OF IRON/ZINC SUPPLEMENTATION AND ITS DISCONTINUATION ON INTESTINE ANTIOXIDANT STATUS IN RATS FED DEFICIENT DIETS**
J. Kaluza, Department of Human Nutrition, Warsaw University of Life Sciences – SGGW, Warsaw, Poland
- PO168 DNA, PROTEIN AND LIPID OXIDATIVE DAMAGE DURING ANAEMIA RECOVERY WITH DIFFERENT SOURCES AND AMOUNTS OF IRON**
J. Diaz-Castro, Department of Physiology, Faculty of Pharmacy, Institute of Nutrition and Food Technology, University of Granada, Spain
- PO169 IRON, COOPER AND ZINC BIOAVAILABILITY DURING IRON DEFICIENCY ANEMIA RECOVERY WITH SEVERAL SOURCES AND AMOUNTS OF IRON**
A. Sanchez-Alcover, Department of Physiology, Faculty of Pharmacy, Institute of Nutrition and Food Technology, University of Granada, Granada, Spain
- PO170 ESTIMATED 24-HOUR SODIUM EXCRETION AMONG DANISH ADULTS AND THE ASSOCIATION WITH HYPERTENSION**
B. Thuesen, Research Centre For Prevention and Health, The Capital Region of Denmark, Denmark
- PO171 GENETIC VARIANTS IN THE TMRSS6 GENE AND IRON STATUS INDICATORS: A SYSTEMATIC REVIEW WITH META-ANALYSES**
W. Gichohi-Wainaina, Division of Human Nutrition, Wageningen University, the Netherlands
- PO172 PERIPHERAL BLOOD MONONUCLEAR CELLS (PBMC) AS A SOURCE TO DETECT MARKERS OF INTAKE OF DIETS WITH UNBALANCED PROPORTION OF MACRONUTRIENTS**
R. Diaz-Rua, Laboratory of Molecular Biology, Nutrition and Biotechnology (LBNB), University of the Balearic Islands and CIBER Fisiopatología de la Obesidad y Nutrición (CIBERObn), Palma de Mallorca, Spain
- PO173 ELEMENTAL DIETS WITH DIFFERENT FAT COMPOSITION IN EXPERIMENTAL COLITIS**
E. Papada, Centre for Gastroenterology and Nutrition, University College London, London, UK
- PO174 CHRONIC MALNUTRITION IN DEVELOPING COUNTRIES: IS THERE A GENETIC DIMENSION?**
J. I. Afolami, University of Ibadan, Ibadan, Nigeria
- PO175 RESEARCH ABOUT CHANGES IN NUTRITION AND PHYSICAL ACTIVITY BEHAVIOURS OF IRANIAN STUDENTS WHO LIVES IN ANKARA**
N. Ersoy, Nutrition and Dietetics Department, Health Science Faculty, Hacettepe University, Ankara, Turkey
- PO176 ANTIOXIDANT RESPONSES IN IRONMAN TRIATHLETES INDICATE REQUIREMENTS OF NUTRITIVE ANTIOXIDANTS DURING EXERCISE TRAINING**
O. Neubauer, Department of Nutritional Sciences, Emerging Field Oxidative Stress and DNA Stability, University of Vienna, Vienna, Austria
- PO177 HEALTHY AND TASTY MEAT USING MARINADES**
E. Honnes, Danish Meat Research Institute (DMRI), Roskilde, Denmark
- PO178 DIETARY PATTERNS AND WHOLE GRAIN IN SCANDINAVIA. THE HELGA PROJECT**
D. Engeset, Department of Community Medicine, University of Tromsø, Norway
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A. Lesdema, Nutrition Research, Mondelez International, Saclay, France
- PO180 FOOD TAXATION AS A NUTRITION POLICY TOOL – LESSONS FROM THE DANISH CASE OF SUGAR AND FAT TAXES**
B. Mikkelsen, Aalborg University, Meal Science and Public Health Nutrition Research Unit (MENU), A.C. Meyers Vænge 15, Copenhagen, Denmark
- PO181 VALIDATION AND APPLICATION OF A MICRO-PLATE METHOD FOR THE DETERMINATION OF FERRIC REDUCING ANTIOXIDANT POWER (FRAP) IN URINE SAMPLES**
E. Al-Dujaili, Dietetics, Nutrition & Biological Sciences, Queen Margaret University, Edinburgh, UK
- PO182 EVALUATION OF THE BIOLOGICAL PROTECTIVE EFFECTS OF DURUM AND KAMUT WHOLE GRAIN COOKIES**
U. Valli, Department of Agri-Food Sciences and Technologies, University of Bologna, Bologna, Italy
- PO183 INNOVATIVE NUTRITIONAL STRATEGIES TO PRESERVE BONE HEALTH: THE ROLE OF FISH OILS SUPPLEMENTATION IN COUNTERACTING SENILE OSTEOPOROSIS**
C. Philippe, Inra, Umr 1019, Unh, Crnh Auvergne, Clermont Ferrand, France
- PO184 LINKING NUTRITION AND FOOD SECURITY IN HUMANITARIAN CONTEXTS: BENEFITS OF INTEGRATING SMART AND HEA AS A TOOL FOR DISASTER MANAGEMENT**
E. Rivero, Accion Contra El Hambre, Departamento de Salud y Nutrición, Madrid, Spain
- PO185 BODY IRON STATUS AND RISK OF HEPATOCELLULAR CARCINOMA IN A EUROPEAN PROSPECTIVE CANCER COHORT**
M. Jenab, International Agency For Research On Cancer (IARC-WHO), Lyon, France
- PO186 REPLETION OF IRON AND N-3 FATTY ACID DEFICIENT RATS WITH IRON AND ALPHA-LINOLENIC ACID ALONE AFFECTS BRAIN MONOAMINES AND COGNITION DIFFERENTLY THAN COMBINED REPLETION**
J. Baumgartner, Centre of Excellence for Nutrition, North-West University, Potchefstroom, South Africa
- PO187 FOOD4ME PERSONALISED NUTRITION: WHAT DOES THE CONSUMER WANT?**
A. Rankin, Northern Ireland Centre for Food and Health (NICHE), University of Ulster, Coleraine, N. Ireland, GBR
- PO188 DIETARY IRON AND OMEGA-3 FATTY ACID DEFICIENCIES INDUCE DIFFERENTIAL GENE EXPRESSION PATTERNS IN RAT HIPPOCAMPUS BOTH INDIVIDUALLY AND IN COMBINATION**
J. Baumgartner, Centre of Excellence for Nutrition, North-West University, Potchefstroom, South Africa
- PO189 BIOLOGICAL EVALUATION OF RAW AND DIFFERENTLY PROCESSED AFRICAN YAM BEAN SEEDS (SPHENOSTYLIS STENOCARPA) USING RATS**
F. Igene, Ambrose Alli University, Nigeria
- PO190 RECENT SYSTEMATIC REVIEWS INDICATE ADULTS NEED ≥800 IU VITAMIN D TO REDUCE RISK OF DISEASE**
S. Whiting, College of Pharmacy and Nutrition, University of Saskatchewan, Saskatoon, SK Canada
- PO191 MOLECULAR MECHANISMS BY WHICH WHITE TEA INTAKE PREVENTS OXIDATIVE-INDUCED STRESS IN VIVO**
C. Espinosa Ruiz, Physiology Department, Faculty of Biology, University of Murcia, Murcia, Spain
- PO192 ORAL SUPPLEMENTATIONS WITH FREE AND DIPEPTIDE FORMS OF L-GLUTAMINE: EFFECTS ON GLUTAMINE-GLUTATHIONE AXIS AND HSPS EXPRESSION IN ENDOTOXEMIC MICE**
J. Tirapegui, 1 Department of Food Science and Experimental Nutrition, Faculty of Pharmaceutical Sciences, University of São Paulo, São Paulo, Brazil
- PO193 ORAL SUPPLEMENTATIONS WITH FREE AND DIPEPTIDE FORMS OF L-GLUTAMINE: EFFECTS ON IMMUNE AND INFLAMMATORY SYSTEM IN MICE UNDER ENDOTOXEMIA**
J. Tirapegui, Department of Food Science and Experimental Nutrition, Faculty of Pharmaceutical Sciences, University of São Paulo, São Paulo, Brazil

- PO194 DIET AND PHYSICAL ACTIVITY INTERACT WITH THE 514C/T POLYMORPHISM IN HEPATIC LIPASE GENE ON SERUM LIPID AND FATTY ACID CONCENTRATIONS**
I. Huybrechts, Department of Public Health, Ghent University, Ghent, Belgium
- PO195 NUTRITIONAL INTERACTION BETWEEN TRANS FATTY ACIDS AND UNSATURATED FATTY ACIDS FROM DIFFERENT SOURCES ON REGULATION OF TRIGLYCERIDE METABOLISM**
M. Gonzalez, Bromatologia y Nutricion, Facultad de Bioquimica y Ciencias Biologicas, Universidad Nacional del Litoral, Santa Fe, Argentina
- PO196 NATURAL AND COMMERCIAL RELATIONS OF CONJUGATED LINOLEIC ACIDS DIFFERENTIALLY AFFECT FATTY ACIDS SYNTHESIS IN LIVER OF MICE**
C. Bernal, Faculty Bioquimica y Cs. Biologicas - U.N.L. Santa Fe, Argentina
- PO197 DOES DIET ENERGY DENSITY IS CORRELATED WITH DIET QUALITY?**
A. Mendes, Department of Public Health Nutrition, University of São Paulo - USP, São Paulo, SP, Brazil
- PO198 INCREASED VITAMIN K LEVEL IN LDL-/- AND APOE-/- MICE**
N. Kaesler, Medical Clinic II, University Hospital of The RWTH Aachen, Aachen, Germany
- PO199 EFFECTS OF TRANS FATTY ACIDS ON BRAIN OXIDATIVE STATUS IN AN EXPERIMENTAL ANIMAL MODEL OF ESSENTIAL FATTY ACIDS DEFICIENCY**
M. Gonzalez, Bromatologia y Nutricion, Facultad de Bioquimica y Ciencias Biologicas, Universidad Nacional Del Litoral, Santa Fe, Argentina
- PO200 BODY COMPOSITION, PHYSICAL ACTIVITY SCORE AND METABOLIC SYNDROME IN URUGUAYAN SCHOOL AGE CHILDREN**
M. Britz, Departamento de Nutricion Poblacional, Escuela De Nutricion, Universidad de la Republica, Montevideo, Uruguay
- PO201 MATERNAL NUTRITION AND ADVERSE BIRTH OUTCOMES IN DEVELOPING COUNTRIES: A SYSTEMATIC REVIEW AND META-ANALYSIS**
V. Mendu, National Institute of Nutrition, Indian Council of Medical Research, India
- PO202 EXPOSURE VS. SENSORY EDUCATION: THEIR EFFECTIVENESS IN INTRODUCING NOVEL VEGETABLES TO PRESCHOOL CHILDREN'S DIETS? PRELIMINARY RESULTS OF A DANISH INTERVENTION**
M V. Mikkelsen, Research Group for Meal science and Public Health Nutrition, University of Aalborg (Campus Copenhagen), Copenhagen, Denmark
- PO203 PLASMA LEVELS OF CLA ISOMERS AFTER SINGLE ORAL ADMINISTRATION OF TONALIN OIL TO RATS**
L M. Rodriguez-Alcala, Instituto de Investigacion en Ciencias de la Alimentacion (CIAL, CSIC-UAM), Bioactividad y Analisis de los Alimentos, Madrid, Spain
- PO204 EVALUATION OF THE LIPID AND GLYCEMIC PROFILE OF RATS WITH DIET SUPPLEMENTED WITH CHEESE WHEY PROTEINS AND THEIR HYDROLYSATES**
O. Barbosa, Faculdade de Ciências Farmacêuticas, UNESP Univ Estadual Paulista, Brazil
- PO205 DEVELOPMENT OF A HIGH THROUGHPUT ASSAY FOR THE QUANTIFICATION OF MULTIPLE PLANT POLYPHENOLS IN HUMAN PLASMA**
D. Mawson, LGC Health Sciences, Fordham, UK
- PO206 DEVELOPMENT OF HIGH THROUGHPUT LC-MS/MS ASSAYS FOR NUTRITIONAL BIOMARKER QUANTIFICATION**
D. Mawson, LGC Health Sciences, Fordham, UK
- PO207 URINARY ENTEROLACTONE AND ENTERODIOL CONCENTRATIONS CORRELATE WITH TOTAL FIBER INTAKE AND SHOWED A MODERATE TO HIGH REPRODUCIBILITY IN A SPANISH POPULATION**
B. Moreno-Franco, Department of Medicine, Psychiatry and Dermatology. University of Zaragoza, Zaragoza, Spain
- PO208 INDIVIDUAL AND FAMILIAL DIETARY PREDICTORS OF OBESITY AMONG HISPANIC CHILDREN FROM AN URBAN COMMUNITY IN THE US**
M. Santiago, Nutritional Sciences, University of Wisconsin-Madison, Madison, WI, USA
- PO209 COLOUR OPTIMIZATION OF AN INULIN RICH INGREDIENT FROM ARTICHOKE (CYNARA SCOLYMUS, L.) BY-PRODUCTS**
D. Ruiz-Cano, University of Murcia, Murcia, Spain
- PO210 SERUM N-6 AND N-3 POLYUNSATURATED FATTY ACIDS AS BIOMARKERS OF DIETARY INTAKE IN EARLY PREGNANCY ACCORDING TO BODY MASS INDEX**
J. Lepsch, Nutritional Epidemiology Observatory, Federal University of Rio de Janeiro, Brazil
- PO211 APPLICATION OF DIET QUALITY INDEX REVIEWED BEFORE AND AFTER NUTRITIONAL GUIDANCE**
S J. Papini, Departamento de Enfermagem, Faculdade de Medicina de Botucatu UNESP, Botucatu, São Paulo, Brasil
- PO212 RELATIONSHIP BETWEEN UNCOUPLING PROTEIN-2 ALA55VAL GENE POLYMORPHISM AND INDICATORS OF METABOLIC SYNDROME IN MEXICAN SCHOOL CHILDREN**
G. Lopez, Laboratorio de Nutricion Molecular, Universidad Autonoma del Estado de Hidalgo, Pachuca Hidalgo, Mexico
- PO213 EFFECT OF DIFFERENT RESTRICTION LEVELS ON FOOD INTAKE AND BODY WEIGHT IN ALBINO RATS**
R. Mancilla-Gonzalez, Behavioral Feeding and Nutrition Research Center, CUSur, University of Guadalajara, Mexico
- PO214 FOOD SELECTION IN RECREATIONAL FACILITIES: DO PARENTS AND CHILDREN MAKE HEALTHY CHOICES?**
D L. Olstad, Department of Agricultural, Food and Nutritional Science, University of Alberta, Edmonton, Alberta, Canada
- PO215 PARTICIPATION IN AN INTEGRATED HOMESTEAD FOOD PRODUCTION AND NUTRITION AND HEALTH-RELATED EDUCATION PROGRAM INCREASED CHILDREN'S HEMOGLOBIN LEVELS IN BURKINA FASO**
D K. Olney, International Food Policy Research Institute, Washington, DC, USA
- PO216 EMERGING DISEASE BURDEN TRANSITION IN DEVELOPING COUNTRIES: THE CASE OF BANGLADESH**
M. Kothari, Demographic Health Survey, PATH, Washington DC, USA
- PO217 EXCESS DIETARY ENERGY INTAKE AND ESTROGEN-DEPRIVATION MODULATE ADIPOSITY-RELATED PROINFLAMMATORY EVENTS AND MUSCLE LOSS**
J. Kim, Sookmyung Women's University, Seoul, South Korea
- PO218 ABSORPTION AND GASTROINTESTINAL OXIDATIVE INJURY IN KM MALE RATS FED OXIDIZED CASIN**
S. Y. The State Key Laboratory of Food Science and Technology, Jiang Nan University, Wuxi, China
- PO219 THE CONTRIBUTION OF BREASTFEEDING TO ACHIEVING MILLENNIUM DEVELOPMENT GOAL FOUR IN THE ASIA PACIFIC REGION**
M. Lee, School of Health Professions, Murdoch University, Perth, Western Australia, Australia
- PO221 MICROSTRUCTURAL ANALYSIS OF BINGE EATING**
A. Lopez-Espinoza, Behavioral Feeding and Nutrition Research Center, CUSur, University of Guadalajara, Mexico

- PO222 THE MINOR ALLELE OF THE FADS1 GENE POLYMORPHISM IS ASSOCIATED WITH LOWER EICOSAPENTAENOIC ACID IN BREAST MILK OF CHINESE WOMEN**
L. Xie, Department of Nutrition and Food Hygiene, Jilin University, China
- PO223 COMPARISON OF FERMENTATION LEVELS IN LARGE INTESTINE OF RATS FED DIFFERENT CARBOHYDRATE-SOURCE DIETS BY ANALYZING FECES USING LC/MS**
M. Hagio, Research Faculty of Agriculture, Hokkaido University, Japan
- PO224 FLOW INJECTION ASSAY FOR MEASURING LYSINE-SPECIFIC DEMETHYLASE-1 (LSD1) ACTIVITY BY TIME-OF-FLIGHT MASS SPECTROMETRY**
Y. Shidoji, Molecular and Cellular Biology, Graduate School of Human Health Science, University of Nagasaki, Nagayo, Nagasaki, Japan
- PO225 TIME TRENDS IN DIET AND NUTRITIONAL STATUS OF RURAL AND TRIBAL POPULATION IN INDIA: A LONGITUDINAL NATIONAL NUTRITION NNMB SURVEYS**
A. Laxmaiah, National Institute of Nutrition, ICMR, India
- PO226 NUTGECS: A NUTRITION GUIDE FOR EARLY CHILDHOOD ACTIVE STAKEHOLDERS – PRESENTATION OF AN EU-PROJECTS' OUTCOME**
P. Rust, Department of Nutritional Sciences, University of Vienna, Vienna, Austria
- PO227 IMPACT OF SOCIO-ECONOMIC STATUS ON BODY WEIGHT OF AUSTRIAN KINDERGARTEN CHILDREN**
P. Rust, Department of Nutritional Sciences, University of Vienna, Vienna, Austria
- PO228 A STUDY ON THE EFFECTS OF LOW PROTEIN DIET ON HEPATIC MIRNA AND ITS TARGET GENES BY MICROARRAY ANALYSIS**
K. Takahashi, Department of Applied Biological Chemistry, The University of Tokyo, Tokyo, Japan
- PO229 STUDY ON VITAMIN D RECEPTOR GENE FOK1 POLYMORPHISM WITH PIG'S MYOFIBER PROLIFERATION**
B. Jin, Department of Food Science and Nutrition, Nanjing Normal University, Nanjing, China
- PO230 RELATIONSHIP OF PPAR2 BSR1 LOCUS POLYMORPHISM AND LIPIDS METABOLISM IN LONGISSIMUS DORSI**
B. Jin, Department of Food Science and Nutrition, Nanjing Normal University, Nanjing China
- PO231 QR-CODES IN FOOD LABELING: OUTLOOK FOR FOOD SCIENCE AND NUTRITION**
J. Sanz-Valero, Department of Public Health and History of Science, Miguel Hernandez University, Elche, Spain
- PO232 EFFECTS OF NON-DIGESTIBLE POLYSACCHARIDES ON FOOD TASTES**
K. Makishima, Department of Biotechnology, College of Life Sciences, Ritsumeikan University, Japan
- PO233 EFFECTIVE DOSAGE OF S-EQUOL FOR MANAGEMENT OF MENOPAUSAL SYMPTOMS**
S. Uchiyama, Otsuka Pharmaceutical Co., Ltd., Saga Nutraceuticals Research Institute, Japan
- PO234 CIRCADIAN RHYTHMICITY AS A PREDICTOR OF WEIGHT LOSS**
M. C. Bandin Saura, Departamento De Fisiologia, Universidad De Murcia, Murcia, Spain
- PO235 DIVERSE SIGNALING PATHWAYS OF AMINO ACIDS FOR AUTOPHAGY CONTROL**
A. Angcajas, Department of Applied Biological Chemistry, Graduate School of Science and Technology, Niigata University, Niigata, Japan
- PO236 A NEW FERMENTED MILK SAUCE G LACTOSHOH USING A MONASCUS KOJI**
S. Fujimoto, Department of Biotechnology, College of Life Sciences, Ritsumeikan University, 1-1-1 Nojihigashi, Kusatsu, Shiga, Japan
- PO237 OLIGOSACCHARIDE DERIVED FROM LEUCONOSTOC MESAENTEROIDES SUPPRESS GLUCOSYLTRANSFERASE I FROM STREPTOCOCCUS MUTANS**
K. Ishihara, Department of Biotechnology, College of Life Science, Ritsumeikan University, Kusatsu, Shiga, Japan
- PO238 THE USE OF FOOD FREQUENCY QUESTIONNAIRE AS A TOOL FOR BEHAVIOR MODIFICATION**
T. Tangsermwong, Division of Nutrition and Dietetics, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
- PO239 REGULATION OF AUTOPHAGY BY ANTIOXIDANTS IN RAT ISOLATED HEPATOCYTES**
Y. Horii, Department of Applied Biological Chemistry, Graduate School of Science and Technology, Niigata University, Niigata, Japan
- PO240 THE ETHNO-BOTANY OF WILD EDIBLE FRUIT TREES IN GULU, UGANDA AND ASSOCIATED CONSERVATION THREATS**
C. Oryema, Gulu University, Uganda
- PO241 OREXIGENIC HYPOTHALAMIC ACTIVATION DETERMINED WITH FUNCTIONAL DIFFUSION WEIGHTED IMAGING (FDWI) DIFFERS AMONG OBESE AND LEAN ANIMALS DURING FASTING**
M. Tabernero, Experimental Surgery Department, Hospital La Paz Health Research Institute, Madrid, Spain
- PO242 BODY MASS INDEX AND BLOOD PRESSURE OF UNDERGRADUATES STUDENTS IN SOUTH WEST NIGERIA**
S. Nupo, Moshood Abiola Polytechnic Ojere Abeokuta, Nigeria
- PO243 REDUCTION OF INFLAMMATION-RELATED CVD RISK FACTORS IN PERIPHERAL TISSUES BY SUPPRESSION OF POSTPRANDIAL HYPERGLYCEMIA IN TYPE 2 DIABETIC OLETF RATS**
C. Imai, Graduate School of Integrated Pharmaceutical and Nutritional Sciences, University of Shizuoka, Shizuoka, Japan
- PO244 DIETARY DIVERSITY SCORE, LIPID PROFILE AND NUTRITIONAL STATUS OF UNDERGRADUATES IN SOUTHWEST NIGERIA**
N. Sunday, Moshood Abiola Polytechnic Ojere Abeokuta, Uganda
- PO245 NUTRITIONAL EXTREMES AMONG RURAL CHILDREN AGED 7-15 INHABITING POMERANIA REGION IN THE LIGHT OF THE ECONOMIC TRANSITION IN POLAND**
J. Roznowski, Nzoj Twoj Lekarz, Chelmo, Polonia
- PO246 THE REGULAR INTAKE OF LACTOBACILLUS PLANTARUM 3547 IMPROVES THE INFLAMMATORY PROFILE MEASURED IN PLASMA OF PEOPLE WITH OVERWEIGHT AND OBESITY.**
B. Lopez-Plaza, Department of Clinical Nutrition and Dietetic, Hospital La Paz Institute For Health Research (IdiPAZ). Madrid, Spain
- PO247 UTILIZATION OF MATERNAL HEALTH SERVICES AND APPROPRIATE FEEDING PRACTICES TO IMPROVE NUTRITIONAL STATUS OF INFANTS AND YOUNG CHILDREN IN NEPAL**
K. N. Pokhrel, Department of Community and Global Health, The University of Tokyo, Japan
- PO248 FABP4 AND TNF-ALPHA METHYLATION LEVELS ARE ASSOCIATED WITH WEIGHT LOSS IN SPANISH ADOLESCENTS: THE EVASYON STUDY**
A. Moler, Department of Nutrition, Food Science and Physiology, University of Navarra, Navarra, Spain
- PO249 EFFECT OF A FOS-LACTOBACILLUS FERMENTUM SYMBIOTIC ON HEPATIC AND ADIPOSE TISSUE TRANSCRIPTOME IN OBESE ZUCKER RATS**
B. Rivero, University of Granada, Granada, Spain
- PO250 HIGHER TELOMERE LENGTH IS ASSOCIATED WITH A DECREASE IN OBESITY RISK IN AN INTERVENTION WITH MEDITERRANEAN DIET: THE PREDIMED-NAVARRA TRIAL**
S. Garcia-Calzon, Department of Nutrition, Food Science and Physiology, University of Navarra, Navarra, Spain

- PO251 DNA METHYLATION PATTERN AND GENE EXPRESSION OF KCNQ1 AND C5AR1 IN RELATION TO ISCHEMIC STROKE AND OBESITY**
A. Gomez-Uriz, Department of Nutrition, Food Science and Physiology, University of Navarra, Spain
- PO252 EFFECTS OF CARDIOTROPHIN-1 ON HSL AND ATGL PROTEIN LEVELS IN ADIPOSE TISSUE OF OB/OB MICE**
M. Lopez-Yoldi, Department of Nutrition, Food Science and Physiology, University of Navarra, Spain
- PO253 DIETARY ALPHA-LIPOIC ACID SUPPLEMENTATION DECREASES CHEMERIN IN HIGH FAT-FED RATS**
P. Prieto-Hontoria, Department of Nutrition, Food Science and Physiology, University of Navarra, Pamplona, Spain
- PO254 FEATURES OF A POPULATION INTERESTED IN PERSONALIZED NUTRITION BASED ON GENOTYPE: APPLICATION OF A SNP GENOTYPING KIT**
R. San-Cristobal, Department of Nutrition, Food Science and Physiology, University of Navarra, Spain
- PO255 EFFECT OF METHYLATING AGENTS ON ADIPOCYTE DIFFERENTIATION: CHANGES IN CAVEOLIN-1 METHYLATION AND EXPRESSION**
S. Palacios-Ortega, Department of Biochemistry and Genetics, University of Navarra, Spain
- PO256 TRANSCRIPTOME ANALYSIS IDENTIFIED A POTENTIAL NOVEL FUNCTION OF CORIANDER IN SUPPRESSION OF COLITIS**
H. Jia, Corporate Sponsored Research Program Food for Life, Organization for Interdisciplinary Research Projects, The University of Tokyo, Tokyo, Japan
- PO257 ESTIMATING THE ADEQUACY OF NUTRIENT AVAILABILITY OF UGANDAN FARMING HOUSEHOLDS' FOOD PRODUCTION**
J. Fiedler, International Food Policy Research Institute (IFPRI), UK
- PO258 EFFECT OF FATTY ACIDS ON THE INFLAMMATORY CASCADE IN THP-1 DERIVED MACROPHAGES**
C. Paras Chavez, Institute of Human Nutrition and Human Development and Health, Faculty of Medicine, University of Southampton, Southampton, UK
- PO259 INTRODUCING MIRONUTRIENT POWDER AS A POTENTIAL COMPLEMENTARY STRATEGY FOR ALLEVIATING PERSISTING MICRONUTRIENT DEFICIENCIES AMONG CHILDREN IN TANZANIA**
G. Mulokozi, Feed The Future, Tuboreshe Chakula Project, Dar es Salaam, Tanzania
- PO260 MATERNAL STRESS AND DISTRESS AND CHILD NUTRITIONAL STATUS**
P. Rondo, School of Public Health, University of São Paulo, Avenida Dr Arnaldo 715, São Paulo, Brazil
- PO261 PNPLA3 RS738409 POLYMORPHISM IN ASSOCIATION WITH THE SUSCEPTIBILITY OF ALCOHOLIC LIVER DISEASE: A META-ANALYSIS**
Z. Wang, Department of Food Nutrition Assessment, Institute of Nutrition and Food Safety, Chinese Center for Disease Control and Prevention, China
- PO262 NUTRITIONAL STATUS AND COGNITIVE DEVELOPMENT OF CHILDREN (6-24 MONTHS OLD) IN ISOKAN LOCAL GOVERNMENT AREA, OSUN STATE, NIGERIA**
J. Ajisekola, Department of Human Nutrition, University of Ibadan, Nigeria
- PO263 DIVERSITY AND NUTRITION QUALITY OF SOME SORGHUM GRAIN AND GERMINATED SORGHUM (SORGHUM BICOLOR) GRAIN VARIETIES GROWN IN KENYA**
A. Makokha, Jomo Kenyatta University of Agriculture and Technology, Kenya
- PO264 CORIANDRUM SATIVUM L. ETHANOL EXTRACT UP-REGULATE THE EXPRESSION OF THE γ CLASS OF GLUTATHIONE S-TRANSFERASE AND NAD(P)H: QUINONE OXIDOREDUCTASE 1 AS WELL AS NRF2 ACTIVATION**
K L. Liu, Department of Nutrition, Chung Shan Medical University, Taiwan
- PO265 MATERNAL AND CHILD NUTRITIONAL STATUS IN RURAL AND URBAN COMMUNITIES OF LAGOS STATE, NIGERIA**
I. Senbanjo, Department of Paediatrics and Child Health, Lagos State University College of Medicine, Ikeja, Lagos State, Nigeria
- PO266 THREE-DIMENSIONAL ANALYSIS OF THE ONSET OF REGIONAL HETEROGENEITY OF HEPATOCYTES AND MICROVASCULAR ARCHITECTURE IN SHREW HEPATIC LOBULES**
T. Ishikawa, Institute of General Research for SHOKUIKU, Ochanomizu University, Tokyo, Japan
- PO267 ABNORMALITIES OF HEMOGLOBIN, IRON, VITAMIN B12 AND 25(OH)D STATUS IN A CONVENIENCE-SAMPLE OF PRESCHOOLERS ATTENDING A DAY-CARE CENTER IN GUATEMALA**
S. Salguero, Center for Studies of Sensory Impairment, Aging and Metabolism (CeSSIAM), Guatemala City, Guatemala
- PO268 DIETARY LACTOFERRIN SUPPLEMENTATION PROTECTS THE NEWBORN PIGLETS FROM EARLY WEANING DIARRHEA**
C W. Yang, School of Medicine, Xiamen University, Xiamen, Fujian Province, China
- PO269 ASSESSMENT OF HEALTH PROFESSIONAL CURRICULAR FOCUS ON NUTRITION IN INDIA**
S. Pati, Indian Institute of Public Health-Bhubaneswar, Public Health Foundation of India, India
- PO270 FEEDING PRACTICES AND NUTRITIONAL STATUS OF UNDER FIVE TWINS AND SINGLETONS IN IGBOORA COMMUNITY, NIGERIA**
O O. Leshi, Department of Human Nutrition, University of Ibadan, Nigeria
- PO271 FOOD SECTOR APPROACH IN REDUCING SALT INTAKE IN THE NETHERLANDS: BREAD AND MEAT PRODUCTS SECTORS AS EXAMPLES**
J. van Raaij, RIVM, National Institute for Public Health and the Environment, The Netherlands
- PO272 HDL SIZE IN OBESE ADOLESCENTS**
M C P. Freitas, School of Public Health University of Sao Paulo, Sao Paulo, Brazil
- PO273 BREAST CANCER SURVIVORS AND THE ROLE OF NUTRITION**
N. Bader, Department of Nutritional, Food and Consumer Sciences, University of Applied Sciences, Fulda, Germany
- PO274 DIETARY GLYCEMIC INDEX AND GLYCEMIC LOAD ACCORDING TO MEDITERRANEAN DIET ADHERENCE: THE PREDIMED STUDY**
A. Rodriguez-Rejon, Department of Clinical Sciences, University of Las Palmas De Gran Canaria, Spain
- PO275 ZINC STATUS AND METALLOTHIONEIN 1F AND 2A GENE EXPRESSION IN ATHEROSCLEROSIS PATIENTS TREATED WITH ROSUVASTATIN AND ZINC SUPPLEMENTATION**
P. Dias, Post-Graduate Program in Pharmaceutical Sciences, Federal University of Rio Grande do Norte, Natal, Brazil
- PO276 NUTRITION GOVERNANCE: FIVE CRUCIAL BUILDING BLOCKS AND AN APPLICATION OF THESE BUILDING BLOCKS INTO SPECIFIC COUNTRY CONTEXTS**
M. Colnar, Fintrac, St. Thomas, US Virgin Islands, USA
- PO277 THE IN VITRO FUNCTIONAL EFFICACY OF PROBIOTIC COMBINATIONS IN FERMENTED GOAT'S MILK**
C. Ranadheera, Department of Agricultural Systems, Faculty of Agriculture, Rajarata University of Sri Lanka

- PO278 THE FATTY ACID COMPOSITION AND MAIN FOOD SOURCES OF FATTY ACIDS IN THE DUTCH DIET**
M. Ocke, RIVM, National Institute for Public Health and the Environment, Bilthoven, The Netherlands
- PO279 A STUDY ON BODY WEIGHT PERCEPTION, FUTURE INTENTION AND WEIGHT MANAGEMENT BEHAVIOUR AMONG NORMAL WEIGHT, OVERWEIGHT AND OBESE WOMEN IN INDIA**
P K. Agrawal, Population Council, India
- PO280 PROGRAMMING THE METABOLIC GENE EXPRESSION IN ZEBRAFISH JUVENILES (DANIO RERIO) BY SUPRA-PHYSIOLOGICAL GLUCOSE LEVEL DURING EMBRYOGENESIS**
F. Rocha, Center of Marine Science (CIMAR LA/ CCMAR), University of Algarve, Faro, Portugal
- PO281 THE LEVEL OF KNOWLEDGE OF MOTHER IS A COMMON DETERMINANT RELATIONSHIP WITH MOTOR AND MENTAL DEVELOPMENT OF STUNTING INFANTS IN WEST SUMATRA PROVINCE INDONESIA**
H. Zulkarnain, Faculty of Public Health Andalas University Padang, Indonesia
- PO282 EFFECT OF ANIMAL SOURCE FOOD (ASF) PROVISION ON THE GROWTH OF MALNOURISHED CHILDREN IN KELANTAN, MALAYSIA: A RANDOMIZED CONTROLLED TRIAL**
R. Jalil, Department of Community Medicine, School of Medical Sciences, Universiti Sains Malaysia, Health Campus, 16150, Kubang Kerian, Kelantan, Malaysia
- PO283 ASSOCIATION OF THE ANXIETY WITH THE NUTRITIOUS CONDITION IN ADOLESCENTS, AGES 11 TO 13 YEARS IN MEXICO CITY**
C. Radilla, Student of the Doctorate of Biological Sciences and of the Health. Autonomous Metropolitan University Campus Xochimilco, Mexico
- PO284 HIBISCUS SABDARIFFA POLYPHENOLS PREVENT INFLAMMATORY-RELATED PATHOLOGIES THROUGH EPIGENETIC REGULATION**
M. Herranz Lopez, Institute of Molecular and Cell Biology, Miguel Hernandez University, Elche, Alicante, Spain
- PO285 EFFECTS OF VITAMIN C SUPPLEMENTATION ON SICKLE CELL DISEASE: A DOUBLE BLIND PLACEBO-CONTROLLED STUDY**
F. Adiiiboka, Department of Nutrition and Food Science, University of Ghana, Accra, Ghana
- PO286 IMPACT OF INTERVENTIONS BY CONSORTIUM FOR IMPROVING AGRICULTURE-BASED LIVELIHOODS IN CENTRAL AFRICA (CIALCA) ON FOOD AND NUTRIENT SECURITY OF FARMER-HOUSEHOLDS**
B. Ekesa-Onyango, Bioversity International, Uganda
- PO288 SOLAR-POWERED DRIP IRRIGATION CONTRIBUTES TO IMPROVED HOUSEHOLD FOOD PRODUCTION AND CONSUMPTION, AND FEMALE EMPOWERMENT**
H. Alaofe, University of Arizona, College of Public Health, USA
- PO289 PROGRAMMING OF LIVER GENE EXPRESSION BY GESTATIONAL EXPOSURE TO FOLIC ACID /VITAMIN B12 IMBALANCE**
A. Aljaadi, Department of Food, Nutrition and Health, Child and Family Research Institute, University of British Columbia, Vancouver, Canada
- PO290 INFLUENCE OF FEEDING, PARENTAL ANTHROPOMETRY, SOCIO-CULTURAL AND PERINATAL ASPECTS ON INFANT BODY SIZE IN SPAIN**
B. Oves, Growth, Exercise, Nutrition and Development (GENUD) Research Group, University of Zaragoza, Spain
- PO291 VALUE CHAIN ANALYSIS FOR NUTRITION: A METHODOLOGICAL CASE STUDY OF THE FRUIT AND VEGETABLE SECTOR IN FIJI**
E. Morgan, Leverhulme Centre For Integrative Research In Agriculture and Health, London, UK
- PO292 ASSOCIATION BETWEEN MEDITERRANEAN DIET QUALITY INDEX (MDQI) AND SERUM LIPID PROFILE IN CROATIAN WOMEN**
I. Rumora Samarin, Department of Food Quality Control and Nutrition, Faculty of Food Technology and Biotechnology, University of Zagreb, Croatia
- PO293 PREDICTORS OF TOLERANCE TO ENTERAL FEEDING IN CRITICALLY ILL PATIENTS**
M. Cruz, Licenciatura en nutrición, Universidad Autónoma de Querétaro, Querétaro, Querétaro, Mexico
- PO294 MAPPING BIODIVERSITY FOR FOOD SECURITY IN RUDEWA MBUYUNI VILLAGE KILOSA DISTRICT, TANZANIA**
J. Kinabo, Department of Food Science and Technology Sokoine University of Agriculture, Tanzania
- PO295 INTERACTIONS BETWEEN ZN, FE AND MG IN CRITICAL CARE PATIENT**
J. Molina, Department of Physiology, Institute of Nutrition and Food Technology, University of Granada, Granada, Spain
- PO296 ANEMIA REDUCTION IN CHILDREN LIVING IN A MALARIA-ENDEMIC REGION OF TANZANIA**
T. Moshia, Sokoine University of Agriculture, Food Science and Technology, Morogoro, Tanzania
- PO297 VITAMINS SERUM CONCENTRATIONS' ARE ASSOCIATED WITH BLOOD PRESSURE LEVELS IN EUROPEAN ADOLESCENTS. THE HELENA STUDY**
A. De Moraes, School of Medicine of The University of Sao Paulo and GENUD - Growth, Exercise, Nutrition and Development of The Faculty of Health Science of The University of Zaragoza, Zaragoza, Spain
- PO298 HEALTH ECONOMIC MODEL FOR ASSESSING THE IMPACT OF HIGH BIRTH WEIGHT ON PUBLIC HEALTH**
I. Lenoir-Wijnkoop, Department of Pharmaceutical Sciences, University of Utrecht, Utrecht, The Netherlands
- PO299 BODY MASS INDEX AND WAIST CIRCUMFERENCES: HOW EFFECTS THE DISEASE RISK OF NORTHERN CYPRUS ADULTS?**
C. Gezer, Near East University, Faculty of Health Sciences, Department of Nutrition and Dietetics, Turkey
- PO300 THE FAMILY AS AN AGENT FOR CHANGE IN EATING HABITS AND OBESITY IN GRADE 2-3 SCHOOLCHILDREN**
T. Goldstein, Department of Human Nutrition and Metabolism, Hebrew University-Hadassah Faculty of Medicine, Jerusalem, Israel
- PO301 PHYSICAL FITNESS REFERENCE STANDARD IN EUROPEAN CHILDREN: THE IDEFICS STUDY**
L. Gracia-Marco, CHERC (Children's Health and Exercise Research Centre), University of Exeter, Exeter, UK
- PO302 COMMUNITY BASED INTERVENTION IMPROVES INFANT FEEDING PRACTICES IN BETHLEHEM VILLAGES**
H. Rabadi, World Vision, Bethlehem, Palestine
- PO303 PACIFIC KIDS DASH FOR HEALTH (PACDASH) TAILORED MULTILEVEL INTERVENTION FOR PREVENTION OF OBESITY AND ELEVATED BLOOD PRESSURE AMONG MULTIETHNIC CHILDREN.**
R. Novotny, University of Hawaii At Manoa, USA
- PO304 NEW ZEALAND GREEN-LIPPED MUSSELS (PERNA CANALICULUS) ENHANCE NON-HAEM IRON ABSORPTION WHEN PROVIDED AS A SINGLE DOSE IN MICE**
R. Stewart, Institute of Food, Nutrition and Human Health, Massey University Palmerston North, New Zealand
- PO305 NUTRITION OUTREACH THROUGH COMMUNITY EVENTS IN THE BLOGOSPHERE: THE NUTRITION CARNIVAL EXPERIENCE**
A. Sanchez Garcia, Nutrition and Bromatology Department, University of Granada, Granada, Spain
- PO306 UNVEILING THE PROPORTIONAL MORTALITY OF FOOD-RELATED AND NUTRITION-RELATED DISEASES. VENEZUELA: 1938-1998**
M. Araujo-Yaselli, Department of Preventive Medicine and Public Health (History of Science), University Complutense of Madrid, Madrid, Spain

- PO307 BIOACTIVE COMPOUND AND FIBER AND CAROTENOIDS IN FLOUR LEAVES OF MORINGA OLEIFERA LAM**
E M. Borges Teixeira, Instituto Federal do Triângulo Mineiro, IFTM, Setor de Agroindustria, Campus, Uberaba, Brasil
- PO308 EFFECTS OF CALCIUM AND VITAMIN D ON THE SERUM PTH AND ADIPONECTIN LEVELS IN GROWING RATS**
S S. Lee, Department of Food and Nutrition, College of Human Ecology, Hanyang University, Korea
- PO309 CONSUMER BEHAVIOR REGARDING FOOD LABELLING INFORMATION IN THE CITY OF PETROPOLIS (RJ)**
A. Esteves, Faculdade Arthur Sa Earp, Curso de Nutrição, Petropolis, Rio de Janeiro, Brasil
- PO310 THE ROLE OF BILIRUBIN IN HUMAN HEALTH: IMPLICATIONS FOR OXIDATIVE STRESS-MEDIATED DISEASES**
C. Mölzer, University of Vienna, Departmen of Nutritional Sciences, Australia
- PO311 CLINICAL TRIAL FOR THE EVALUATION OF ANTI-HYPERTENSIVE EFFECTS OF SOLAR SALT PRODUCED IN KOREA**
B. Lee, Dept. of Food and Nutrition, Chung-Ang University, Anseong, Gyeonggi, Republic of Korea
- PO312 PEN - THE GLOBAL RESOURCE FOR NUTRITION KNOWLEDGE TRANSLATION**
B. Amour, Dietitians of Canada, Toronto, Ontario, Canada
- PO313 THE EFFECT OF AGE ON ATTITUDES OF POLISH GIRLS TO NUTRITION AND HEALTH. THE GEBHEALTH PROJECT**
J. Czarnocinska, Department of Human Nutrition and Hygiene, Poznan University of Life Sciences, Poland
- PO314 PROTECTIVE EFFECTS OF ERGOTHIONEINE AGAINST METHYLGIOXAL-INDUCED NEURON CELLS INJURIES AND ITS POSSIBLE MECHANISM**
T Y. Song, Department of Health Food, Chung Chou University of Science and Technology, Taiwan
- PO315 EFFICACIOUS OF SYNBOTIC AND NUTRIENTS SUPPLEMENT ON STIMULATED OF SECRETORY IMMUNOGLOBULIN A (SIGA) IN TREATED PULMONARY TUBERCULOSIS PATIENTS**
S. Samsidi, Health Polytechnic of Bandung, Indonesia
- PO316 THE ASSOCIATION OF THE FTO GENE SNP RS 9939609 WITH DIETARY ENERGY INTAKE AMONG BEIJING HAN CHILDREN**
H. Fang, National Institute For Nutrition and Food Safety, Chinese Center For Disease Control and Prevention, China
- PO317 USE OF LOCAL NUTRIENT-RICH FISH IN DEVELOPING A COMPLEMENTARY FOOD AND ITS CONTRIBUTION TO RECOMMENDED NUTRIENT INTAKES OF INFANTS**
J R. Bogard, WorldFish, Bangladesh
- PO318 VARIANTS IN THE C-TERMINAL REGION OF PCSK9 AFFECT LDL-C LEVELS IN A BLACK SOUTH AFRICAN POPULATION (THE PURE STUDY)**
T. Van Zyl, Centre of Excellence for Nutrition, North-West University, Potchefstroom, North West, South Africa
- PO319 EFFECTS OF SPIRULINA PLATENSIS ON APOPTOTIC GENE EXPRESSION IN AGE-RELATED HEARING LOSS**
Y C. Chan, Department of Food and Nutrition, Providence University, Taichung, Taiwan
- PO320 EFFECT OF VANADIUM ON THE OXIDATIVE STATUS OF DIABETIC RATS**
C. Lopez-Chaves, Department of Physiology, University of Granada, Granada, Spain
- PO321 RAMA PEDIATRIC BLENDERIZED FORMULA**
P. Hongto, Nutrition&Dietetics Division, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Thailand
- PO322 EXAMINATION OF THE IMPACT OF USING GENERIC NUTRITIONAL COMPOSITION DATA, ON NUTRIENT INTAKE ESTIMATION AT MEAL AND DAILY FOOD-INTAKE LEVELS**
C. Woolhead, Institute of Food and Health, University College Dublin, Dublin, Ireland
- PO323 GENOMIC PROFILING IN SUBJECTS WITH COMMON OBESITY IN BULGARIAN POPULATION**
M. Nikolova, Department of Hygiene, Medical Ecology and Nutrition, Medical University of Sofia, Sofia, Bulgaria
- PO324 A DIET ENRICHED WITH SULFUR-CONTAINING ANTIOXIDANTS IMPROVES NK ACTIVITY AND DIGESTION OF PERITONEAL LEUKOCYTES IN DOUBLE-TRANSGENIC MICE FOR ALZHEIMER'S DISEASE**
L. Marin, Department of Physiology, Faculty of Biology, Complutense University of Madrid. 28040 Madrid, Spain
- PO325 UNIDIRECTIONAL FLOW TECHNIQUE USING TRACERS FOR RESEARCH NEW NUTRIENTS-METABOLITES BIOMARKERS IN EARLY STAGES OF THE DISEASE**
F. Sanchez-Jimenez, Area Dietetica/Colegio Oficial de Tecnicos Superiores Sanitarios de Valencia, Alicante, Comunidad Autonoma Valenciana, Valencia, Spain
- PO326 DIETARY HABITS OF POSTPARTUM MOTHERS DURING BREASTFEEDING**
L. Alouane, National Nutrition Institute, Department of training-information, INNNTA, Tunisia
- PO327 DEVELOPMENT OF A NEW SOFTWARE SPECIALIZED IN NUTRITION RESEARCH (FIRST PHASE: OBTAINING INFORMATION)**
B. Lopez-Plaza, Clinical Nutrition Department, University Hospital La Paz. La Paz Institute For Health Research (IdiPAZ). Madrid, Spain
- PO328 MEAL CONSUMPTION, DIETARY PATTERNS, PHYSICAL ACTIVITY AND COGNITIVE ABILITY AMONG MALAYSIAN ADOLESCENTS**
M T. Mohd Nasir, Universiti Putra Malaysia, Malaysia
- PO329 THE ROLE OF FORESTS, TREES AND BIODIVERSITY IN NUTRITION-SENSITIVE FOOD AND AGRICULTURE SYSTEMS**
B. Powell, Centre For International Forestry Research (CIFOR), Bogor, Indonesia
- PO3297 ROLE OF SLOW DIGESTING CARBOHYDRATES DURING PREGNANCY FOR IMPROVING BONE HEALTH IN OFFSPRING OF OBESE RATS. (NIGOHEALTH STUDY)**
T. Bueno-Vargas, Discovery R&D, Abbott Nutrition, Granada, Spain
- PO330 EFFECTS OF CRYSTALLINE CELLULOSE AND PECTIN IN DIGSTA ON THE BEHAVIOR OF GLUCOSE IN THE INTESTINAL LUMEN**
T. Takahashi, Fukuoka Women's University, Japan
- PO331 PROTEIN-ENERGY WASTING MODIFIES THE ASSOCIATION OF PLASMA LEPTIN WITH INFLAMMATION IN HAEMODIALYSIS PATIENTS**
M. Ruperto, Universidad Complutense de Madrid, Madrid, Spain
- PO332 NEW APPROACH OF ESTIMATING THE RISK OF TYPE-2 DIABETES USING OVERWEIGHT-YEARS METRIC**
A. Abdullah, Department Biostatistics and Population Health, Faculty of Public Health, University Muhammadiyah Aceh, Banda Aceh, Indonesia
- PO333 DIETARY METHIONINE REGULATES THE EXPRESSION OF ASPARAGINE SYNTHETASE AND 3-PHOSPHOGLYCERATE DEHYDROGENASE IN RAT LIVER**
H. Namaki, Laboratory of Molecular Nutrition, Kyoto Prefectural University, Japan
- PO334 DETERMINATION OF LIPID COMPOSITION OF CHERIMOYA (ANNONA CHERIMOLA) CULTIVARS GROWN IN ANDALUSIAN REGION**
P. Garcia Salas, Department of Analytical Chemistry, University of Granada, c/Fuentenueva s/n, 18071, Granada, Spain

- PO335 B-VITAMIN INTAKES AND RELATED BIOMARKER STATUS AND ASSOCIATION TO FOOD CONSUMPTION IN EUROPEAN ADOLESCENTS PARTICIPATING IN THE HELENA STUDY**
I. Iglesia, GENUd: "Growth, Exercise, Nutrition and Development" Research Group, University of Zaragoza, Zaragoza, Spain
- PO336 METABOLIC AND CARDIOVASCULAR RISKS AFTER PEDIATRIC LIVER TRANSPLANTATION**
M. Araujo, Hospital Nacional De Pediatria J P Garrahan, Buenos Aires, Argentina
- PO337 ULTRAFILTRATION AS MILK CONCENTRATION METHOD FOR THE ELABORATION OF A PROBIOTIC FERMENTED GOAT'S MILK**
M. Moreno-Montoro, Department of Nutrition and Food Sciences, University of Granada, Granada Spain
- PO338 IMPACT OF VARIOUS DIETARY OILS ON FADS1 AND FADS2 GENE EXPRESSION IN WHOLE BLOOD: A RANDOMIZED CROSSOVER CONTROLLED NUTRITIONAL INTERVENTION**
M E. Labonte, Institute of Nutrition and Functional Foods, Laval University, Quebec, QC, Canada
- PO339 SCALING-UP HIGH IMPACT NUTRITION INTERVENTIONS: EXPERIENCES WITH THE ESSENTIAL NUTRITION ACTIONS FRAMEWORK**
J. Nielsen, Helen Keller International, New York, USA
- PO340 NATIONAL AND SUB-NATIONAL ESTIMATES OF CHILD AND ADULT NUTRITIONAL STATUS RELATED TO LATER LIFE NUTRITION-RELATED NON-COMMUNICABLE DISEASE (N-RNCD)**
A. Pomeroy, SPRING Project, John Snow, Inc., Arlington, USA
- PO341 PLASMA FATTY ACIDS INFLUENCE LIPID PROFILE AND BLOOD PRESSURE IN INDIVIDUALS WITH DIFFERENT CARDIOVASCULAR RISK**
D. Estevez, Nutrition Department, FSP, USP, Sao Paulo, Brazil
- PO342 SALIVA OSMOLALITY PREDICTS RESPONSE TO 4 WEEKS OF HIGHER WATER INTAKE IN HEALTHY FREE-LIVING MEN**
J. Stookey, Children's Hospital Oakland Research Institute, Oakland, CA, USA
- PO343 THE ALTERATION IN THE PALATABILITY OF SWEET SUBSTANCES IN MICE BEFORE AND AFTER ONSET OF DIABETES**
H. Yamazaki, Graduate School of Agriculture, Kyoto University, Japan
- PO344 IS THE RELATIONSHIP BETWEEN THE BLOOD-GROUPS AND FOOD ALLERGY IN CHILDREN AND YOUNG PERSONS?**
G. Maciejewska, Institute of Physiotherapy, Faculty of Health Sciences, Jagiellonian University Medical College, Krakow, Poland
- PO345 EFFECTS OF LYCOPENE AND RED PALM OIL ON OXIDATIVE STRESS IN STREPTOZOTOCIN-INDUCED DIABETIC RATS**
A. Rahmat, Universiti Putra, Malaysia
- PO346 RESULTS OF THE "BACTEREMIA ZERO" PROTOCOL IN CRITICAL CARE PATIENTS WITH A NUTRITIONAL SUPPORT BY (PARENTERAL WAY INTRAVENOUS) AFTER A YEAR OF IMPLEMENTATION**
C. Morente Marcos, Hospital Universitario Virgen De Las Nieves, Granada, Spain
- PO347 DO OUR PATIENTS WITH CYSTIC FIBROSIS IMPROVE THEIR HABITS AND DIETARY INTERVENTION NUTRITIONAL STATUS AFTER PLANNED?**
G. Lobo Tamer, Hospital Universitario Virgen De Las Nieves, Granada, Spain
- PO348 IDENTIFICATION OF PATHWAYS INVOLVED IN THE SYNTHESIS OF INCREASED FATTY ACID IN ESSENTIAL FATTY ACID DEFICIENCY**
I. Ichi, Food and Nutrition Science, Ochanomizu University, Japan
- PO349 CONSUMPTION EFFECT OF CALORIC AND NON-CALORIC BEVERAGES IN FOOD INTAKE IN RATS**
M. Hagen, Internal Medicine Department, Nutritional Course, Study Center in Food and Nutrition/HospitalClinicas de Porto Alegre/ Federal University of Rio Grande do Sul, Porto Alegre, RS, Brazil
- PO350 EFFECT OF CARBOHYDRATES DIETS ON EATING BEHAVIOR AND OXIDATIVE STRESS IN RATS**
C. Garcia, Behavioral Feeding and Nutrition Research Center, CUSur-University of Guadalajara, Guadalajara, Mexico
- PO351 PROCESSING METHODS AND NUTRIENT COMPOSITION OF FLOURS MADE FROM FERMENTED SOYABEANS (GLYCINEMAX), FERMENTED MAIZE (ZEMAYS) AND UNFERMENTED GROUNDNUT (ARACHISHYPOGEA) USE IN COMPLEMENTARY FEEDING**
N M. Oly-Alawuba, Department of Nutrition and Dietetics, Imo State University Owerri, IMO State, Nigeria
- PO352 EFFECTS OF SJAMP ON DEVELOPMENT AND IMMUNE FUNCTION OF EXPERIMENTAL HEPATOCARCINOMA IN RATS**
S. Yang, Nutrition, Qingdao University Medical College, Qingdao City, Shandong Province, China
- PO354 DNA METHYLATION CHANGES INDUCED BY ZINC DEFICIENCY IN 0-2M-OLD RATS**
Y. Jiang, Institute of Health & Environmental Medicine, China
- PO355 FOOD INTAKE ASSESSMENT OF THE 'BOM PRATO' PROJECT USERS**
A. Murakami Y Cruces, Centro Universitario São Camilo, Ipiranga - São Paulo, Brazil
- PO356 BLOOD PRESSURE CHANGES DURING PREGNANCY ACCORDING TO PRE-PREGNANCY BODY MASS INDEX: A PROSPECTIVE COHORT FROM RIO DE JANEIRO, BRAZIL**
F. Rebelo, National School of Public Health, Oswaldo Cruz Foundation, Rio de Janeiro, Brazil
- PO357 RECOMMENDATIONS FOR IODINE CONTENT MEASUREMENT METHODS IN SALT IODIZATION PROGRAMS**
R. Yusufali, Global Alliance For Improved Nutrition (GAIN), Geneva, Switzerland
- PO358 SYSTEMATIC REVIEW AND META-ANALYSIS OF DIETARY PATTERNS AND DEPRESSION: OBSERVATIONAL STUDIES**
J S. Lai, School of Medicine and Public Health, University of Newcastle, NSW, Australia
- PO359 BODY IMAGE PERCEPTION IN BRASILIAN ELDERLY**
R. Machado, UfrjFederal University of Rio de Janeiro, Brazil
- PO360 PREVALENCE OF OVERWEIGHT AND OBESITY AND ASSOCIATED FACTORS AMONG SCHOOL GOING CHILDREN IN KENYA: THE CASE OF NAKURU MUNICIPALITY**
D. Koros, Hospitality and Tourism Studies Department, Rift Valley Institute of Science and Technology, Nakuru, Kenya
- PO361 FACTORS ASSOCIATED TO THE UNDERREPORT OF ENERGY INTAKE IN FOOD RECORDS AMONG ADULTS FROM THE RIO DE JANEIRO AREA, BRAZIL**
T. Lopes, Departamento de Nutrição Social e Aplicada, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil
- PO362 THE EFFECTS OF VITAMIN A, E ON PROLIFERATION OF HUMAN ESOPHAGEAL CANCER CELL LINE ECA-109 CULTURED WITH HUMAN SERUM**
Y. Xiong, Institute of Public Health, Chongqing Center For Disease Control and Prevention, China
- PO363 CHANGES IN THE ULTRASTRUCTURE OF RAT'S SURAL NERVE SUBJECTED TO BRAZIL REGIONAL BASIC DIET**
M F. Larcher de Almeida, Department of Nutrition, Federal University of Rio De Janeiro, Macae - RJ, Brazil
- PO364 INSTAPA WP6: THE EFFECTS OF MICRONUTRIENT SUPPLEMENTATION WITH REDUCED IRON CONTENT ON MOTOR DEVELOPMENT IN INFANTS IN A MALARIAL AREA**
J. Kvalsvig, Department of Psychology, University of KwaZulu-Natal, Durban, KwaZulu-Natal, South Africa

- PO365 VITAMIN D INSUFFICIENCY IN PRIMARY CARE POPULATION: A STUDY IN URBAN BHUBANESWAR, ODISHA, INDIA**
S. Pati, Indian Institute of Public Health Bhubaneswar, PHFI, India
- PO366 SOCIO-CULTURAL, ORGANIZATIONAL, AND COMMUNITY LEVEL INFLUENCES ON PHYSICAL ACTIVITY LEVELS OF LATINO PRESCHOOL-AGED CHILDREN: A QUALITATIVE STUDY**
A. Lindsay, Department of Exercise and Health Sciences, College of Nursing and Health Sciences, University of Massachusetts, Boston, USA
- PO367 A NUTRITION EDUCATION INTERVENTION TO COMBAT UNDERNUTRITION: EXPERIENCE FROM A DEVELOPING COUNTRY**
A. Zahid Khan, Human Development Programme-Aga Khan University, Karachi, Pakistan
- PO368 HEALTH BENEFICIAL CONSTITUENTS OF FOUR UNDERUTILIZED TROPICAL FRUITS**
F. Wireko-Manu, Department of Food Science and Technology, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana
- PO369 EFFECT OF TRANS FATTY ACIDS ON BLOOD GLUCOSE LEVEL AND NECROSIS IN RATS**
R. Sartika, Department of Public Health Nutrition, University of Indonesia, Indonesia
- PO370 RISK FACTORS FOR PRELACTEAL FEEDING IN THE FIRST THREE DAYS OF LIFE IN SEVEN LATIN AMERICA AND CARIBBEAN COUNTRIES**
C. Boccolini, Department of Social Nutrition, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil
- PO371 DEVELOPMENT OF A PREDICTION EQUATION FOR ESTIMATING FAT-FREE MASS AMONG CHILDREN WITH ACUTE LEUKAEMIA UNDERGOING IN-PATIENT CHEMOTHERAPY**
S. Y. Tan, Division of Nutrition and Dietetics, School of Health Sciences, International Medical University, Bukit Jalil, Kuala Lumpur, Malaysia
- PO372 INAPPROPRIATE NUTRITION PRACTICES AMONG CHILDREN IN NORTHEAST BRAZIL**
S. S. Neves, Universidade Estadual do Ceara, Brazil
- PO373 DEVELOPMENT OF CEREAL ENRICHED WITH ACITAN**
I. Garcia, LABIOFAM Entrepreneurial Group, Cuba
- PO374 IMPACT OF HOMESTEAD FOOD PRODUCTION ON THE NUTRITIONAL STATUS OF CHILDREN 12-48 MONTHS AND THEIR MOTHERS IN BAITADI DISTRICT, NEPAL**
A. Pries, Helen Keller International, Asia Pacific Regional Office, Phnom Penh, Cambodia
- PO375 EFFECTS OF A FERMENTED MILK PRODUCT ENRICHED WITH PROTEIN AND FIBRE TO SATIATION AND WEIGHT REDUCTION**
H. Stritecka, University of Defence, Faculty of Military Health Sciences, Hradec Kralove, Czech Republic
- PO378 POLISH CONSUMER ATTITUDES TO REDUCE FAT CONTENT IN MEAT**
M. Kosicka-Gębska, Warsaw University of Life Science, Warsaw, Poland
- PO379 BAMBARA GROUNDNUT, VIGNA SUBTERRANEA AS A PANACEA FOR MALNUTRITION IN DEVELOPING COUNTRIES LIKE NIGERIA**
J. Atoyebi, National Centre for Genetic Resources and Biotechnology, Moor-Plantation, Ibadan, Nigeria
- PO380 FTO GENE EXPRESSION UNDER LOW OR HIGH GLYCEMIC INDEX (GI) DIET IN PREGNANT MICE AND PUPS**
T. Sideratou, Human Nutrition Unit, School of Molecular Biosciences, The University of Sydney, Sydney, NSW, Australia
- PO382 MATERNAL SELF-EFFICACY AND LIFE STYLE BEHAVIORAL PROBLEMS OF THE CHILD RELATED TO WEIGHT IN DYADS RESIDING IN NORTHEASTERN MEXICO**
Y. Flores-Peña, Universidad Autonoma De Nuevo Leon, Facultad de Enfermeria, Mexico
- PO383 EFFECT OF WATER EXTRACT PHYSALIS ANGULATA L ON LIPID PROFILE AND ANTIATHEROSCLEROSIS OF SPRAGUE DAWLEY MALE RATS INJECTED BY STREPTOZOTOCIN-LIPOPHOLYSACCHARIDE**
Y. Sulistyowati, Departement of Nutrition Science, Faculty of Health Sciences, Respati University, Yogyakarta, Indonesia
- PO384 POTENCY OF CIPLUKAN HERBS (PHYSALIS ANGULATA L) AS AN ANTIHIPERGLYCEMIA AND ANTIHYPERLIPIDEMIA IN SPRAGUE DAWLEY MALE RATS INJECTED BY STREPTOZOTOCIN-NICOTINAMIDE**
Y. Sulistyowati, Departement of Science Nutrition, Faculty of Health Sciences University of Respati, Yogyakarta, Indonesia
- PO385 IN VITRO DETERMINATION OF GLYCEMIC RESPONSE**
K. Argyri, Department of Food Science and Technology, Agricultural University of Athens, Athens, Greece
- PO386 LIPIDOMIC PROFILING OF CHYLOMICRON TRIACYLGLYCEROLS IN RESPONSE TO HIGH FAT MEALS**
K. Linderborg, Department of Biochemistry and Food Chemistry, University of Turku, Finland
- PO387 FATTY ACIDS PROFILE OF CAMEL MEAT**
S. Naima, Blida University, Algeria
- PO388 PREVALENCE OF STUNTING AND WASTING AMONG SCHOOL CHILDREN IN A RURAL AREA OF MOROCCO**
M. EL Hioui, Equip of Clinic and Cognitive Neurosciences and Health, Laboratory of Biology and Health, Department of Biology, Faculty of Science, IBN TOFAIL University Kenitra, Morocco
- PO389 PREVALENCE AND DETERMINANTS OF VITAMIN D DEFICIENCY IN ADULTS AGED 65 YEARS AND OVER**
F. Granado-Lorencio, Unidad De Vitaminas, Servicio De Bioquímica Clínica, Hospital Universitario Puerta De Hierro-Majadahonda, Madrid, Spain
- PO390 DETERMINATION OF 3 EPI-25-OH-VITAMIN D3 IN INFANTS: IMPACT ON VITAMIN D STATUS ASSESSMENT**
F. Granado-Lorencio, Unidad De Vitaminas, Servicio De Bioquímica Clínica, Hospital Universitario Puerta De Hierro-Majadahonda, Madrid, Spain
- PO391 CORRECTION OF PLASMA FERRITIN CONCENTRATIONS FOR SUB-CLINICAL INFLAMMATION IN A MALARIA-ENDEMIC AREA OF COTE D'IVOIRE**
C. Northrop-Clewes, GAIN - Global Alliance for Improved Nutrition, Geneva, Switzerland
- PO392 COMPLEMENTARY FEEDING PRACTICES AND ACCEPTABILITY OF LIPID BASED NUTRIENT SUPPLEMENTS AMONG INFANTS IN RURAL WESTERN KENYA**
C. Stewart, Program in International and Community Nutrition, University of California, Davis, CA, USA
- PO393 DEFICIENCY OF SELENIUM IN CRITICAL CARE PATIENTS WITH SIRS**
J. Molina-Lopez, Department of Physiology, Institute of Nutrition and Food Technology, University of Granada, Granada, Spain
- PO394 IMPACT OF SPIRULINA ON THE EVOLUTION OF THE ANTHROPOMETRIC, BIOCHEMICAL AND HAEMATOLOGICAL PARAMETERS OF HIV-INFECTED ADULTS IN OUAGADOUGOU, BURKINA FASO**
F. Bationo, Research Institute of Health Sciences, Ouagadougou, Burkina Faso
- PO395 PREVALENCE OF ANTHROPOMETRIC DEFICITS AND INADEQUATE PROTEIN-ENERGY INTAKE IN ADULTS WITH SICKLE CELL ANEMIA**
M. L. Portela de Santana, Department of Nutritional Science, School of Nutrition, Federal University of Bahia, Salvador de Bahia, Brazil

- PO396 FACTORS ASSOCIATED WITH WHEEZING AND ASTHMA IN ADOLESCENTS**
F J. Benedetti, Centro Universitario Franciscano – Unifra, Brazil
- PO397 CHARACTERISTIC PROPERTIES OF JAPANESE FUCHA DISHES: NUTRITION, TEXTURE, AND PREFERENCE**
A. Koide, Faculty of Human Life and Environmental Sciences, Nagoya Women's University, Nagoya City, Japan
- PO399 RICH IN AGROBIODIVERSITY BUT POOR IN NUTRITION: FOOD SECURITY IN COMMUNITIES OF CHOPCCA, HUANCVELICA, PERU**
M. Scurrah, Grupo Yanapai, Huancavelica, Peru
- PO400 THE EFFECTS OF MATERNAL ARGININE SUPPLEMENTATION DURING LACTATION ON VISCERAL OBESITY AND INSULIN SENSITIVITY OF OFFSPRING**
A. Koyama, Food for Life, Organization for Interdisciplinary Research Projects, The University of Tokyo, Tokyo, Japan
- PO402 CALCULATING CHILD AGE WITHOUT BIRTH RECORDS: A NEW METHOD FOR ESTIMATING DATE OF BIRTH**
A. Kader, Helen Keller International, Bangladesh
- PO403 DIETARY IRON INTAKE AND TYPES 2 DIABETES**
J C. Fernandez-Cao, Unidad De Nutricion y Salud Publica, Universidad Rovira y Virgili, Reus, Tarragona, Spain
- PO404 THE MEASUREMENT OF HOUNSFIELD UNITS ON COMPUTED TOMOGRAPHY IMAGES AS A METHOD TO ASSESS FAT QUALITY**
M P. Carrasco-Benso, Department of Physiology, University of Murcia, Murcia, Spain
- PO405 HIGH EFFICIENT ANALYSIS FOR LONG FREE FATTY ACID PROFILE BY ULTRAHIGH-PERFORMANCE LIQUID CHROMATOGRAPHY-MASS SPECTROMETRY**
H. Takahashi, Laboratory of Molecular Functions of Food, Division of Food Science and Biotechnology, Graduate School of Agriculture, Kyoto University, Uji, Japan
- PO406 EFFECTS OF IMPROVED-FAT-CONTENT FRANKFURTERS AND PÂTES ON INSULIN SENSITIVITY/RESISTANCE MARKERS OF VOLUNTEERS AT INCREASED CARDIOVASCULAR RISK. A PLACEBO-CONTROLLED STUDY**
P. Celada, Departamento de Nutricion y Bromatologia I (Nutricion), Facultad de Farmacia, Universidad Complutense, Madrid, Spain
- PO407 RURAL-URBAN DIFFERENTIALS IN LIFESTYLE AND FOOD SECURITY OF OLDER PERSONS IN IBADAN, NIGERIA**
O. Ariyo, Department of Human Nutrition and Dietetics, University of Ibadan, Ibadan, Nigeria
- PO409 EFFECTS OF PRENATAL DHA SUPPLEMENTATION ON ATTENTION AND BEHAVIOR OF OFFSPRING AT AGE 5 Y: RANDOMIZED CONTROLLED TRIAL IN MEXICO**
U. Ramakrishnan, Hubert Department of Global Health, Rollins School of Public Health, Emory University, Atlanta, USA
- PO410 NUTRIENT ADEQUACY AND ORGANOLEPTIC QUALITY OF COMPLEMENTARY FOOD MIXES MADE FROM COMBINATIONS OF DIGITARIA EXILIS, SESAMUM INDICUM AND GLYCINE MAX**
V. Ibeanu, Department of Home Science Nutrition & Dietetics, University of Nigeria, Nsukka, Nigeria
- PO411 EFFECTS OF DIETARY SUPPLEMENTS; PEDIASURE AND CARNITINE ON THE ANTHROPOMETRIC INDICES IN CHILDREN WITH ALL UNDER CHEMOTHERAPY, IN AFZALI POOR HOSPITAL, KERMAN, IRAN**
A. Naderi, Assistant professor of pediatric hematology and oncology, Department of Pediatrics, Afzali Poor Hospital, Kerman University of Medical Sciences, Kerman, Iran
- PO412 THE GINGER AS A DIET INGREDIENT AGAINST TOXICITY INDUCED BY CHROMATE**
O. Aouacheri, Applied Biochemistry and Microbiology Laboratory, Department of Biochemistry, Faculty of Sciences, Badji Mokhtar University - Annaba, Algeria
- PO413 MATERNAL FOLIC ACID SUPPLEMENTATION INDUCES DIFFERENTIAL CHANGES IN THE HEPATIC TRANSCRIPTOME OF YOUNG ADULT MALE PROGENY**
W H. Chu, School of Paediatrics and Reproductive Health, University of Adelaide, Australia
- PO414 HEPATIC TRANSCRIPTIONAL CONSEQUENCES FOR YOUNG ADULT FEMALE PROGENY FOLLOWING FOLIC ACID EXPOSURE IN GESTATION**
W H. Chu, School of Paediatrics and Reproductive Health, University of Adelaide, Australia
- PO415 STABLE ISOTOPE RATIOS OF CARBON AND NITROGEN IN THE SCALP HAIR OF PATIENTS RECEIVING ENTERAL NUTRITION**
T. Endo, School of Pharmaceutical Sciences, Health Sciences University of Hokkaido, Hokkaido, Japan
- PO416 ABNORMAL INTESTINAL HANDLING OF SORBITOL AND MANNITOL IN PATIENTS WITH IBS: POTENTIAL CLINICAL IMPLICATIONS**
C K. Yao, Department of Gastroenterology, Central Clinical School, Monash University, Australia
- PO417 SIZE AND BODY COMPOSITION OF SWEDISH INFANTS IN RELATION TO THE NUMBER OF RISK ALLELES IN THE FTO-GENE**
E. Forsum, Department of Clinical and Experimental Medicine, Linköping University, Linköping, Sweden
- PO418 INFLUENCE OF PHYSICAL ACTIVITY ON THE NUTRITIONAL STATUS OF OVERWEIGHT ADOLESCENTS MEASURED BY CD4+/CD8+ RATIO**
A. Veses, Departamento Metabolismo y Nutricion, ICTAN, CSIC, Madrid, Spain
- PO419 A COMPARISON OF FOOD INTAKE PATTERN OF INTELLECTUALLY CHALLENGED AND NON-CHALLENGED SCHOOL CHILDREN IN DHAKA CITY**
F. Shabnam, EEP/Shiree, Dhaka, Bangladesh
- PO420 THE COMPARISON OF DETECTION SYSTEMS IN HPLC DETERMINATION OF CAROTENOIDS FROM SPINACH AND KALE LEAVES**
M. Ligor, Chair of Environmental Chemistry and Bioanalytics, Faculty of Chemistry, Nicolaus Copernicus University, Toruń, Poland
- PO421 DIETARY PLASMA PROTEIN SUPPLEMENTATION AMELIORATES LUNG AND INTESTINAL INFLAMMATION INDUCED BY LPS AND STAPHYLOCOCCAL ENTEROTOXIN B ADMINISTRATION IN MICE**
A. Perez-Bosque, Department of Physiology, Faculty of Pharmacy and Nutrition and Food Safety Research Institute, University of Barcelona, Barcelona, Spain
- PO422 DARK CHOCOLATE SWEETENED WITH STEVIA REDUCE BLOOD GLUCOSE AND CHOLESTEROL OF DIABETIC RATS**
R. Mohamed, Faculty of Home Economics, El Cairo, Egypt
- PO423 IDENTIFICATION OF BLOOD CELL TRANSCRIPT-BASED EARLY BIOMARKERS OF METABOLIC HEALTH IN AN ANIMAL MODEL LESS PRONE TO OBESITY**
J. Konieczna, Laboratory of Molecular Biology, Nutrition and Biotechnology (Nutrigenomics), University of the Balearic Islands (UIB) and CIBER Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Palma de Mallorca, Spain
- PO424 NUTRITION RELATED CARDIAC RISK FACTORS IN PATIENTS WITH CORONARY ARTERY DISEASE IN A SELECTIVE HOSPITAL AT DHAKA CITY**
T. Khatun, bangladesh Institute of Health Sciences (BIHS), 125/1 Darussalam, Mirpur, Dhaka, Bangladesh

- PO425 GASTROINTESTINAL PEPTIDE RESPONSE TO FAT AND CARBOHYDRATE: IMPLICATIONS FOR SATIETY CONTROL**
C. Gibbons, Institute of Psychological Sciences, Faculty of Medicine and Health, University of Leeds, UK
- PO426 ALKYLRESORCINOLS AND α -CAROTENE IN PLASMA AS DIETARY BIOMARKERS FOR HEALTHY NORDIC DIET**
O K. Magnusdottir, Unit for Nutrition Research, Landspítali -The National University of Iceland, Faculty of Food Science and Nutrition and School of Health Sciences, University of Iceland, Reykjavik, Iceland
- PO427 INFLAMMATION AND BLOOD FATTY ACIDS IN EUROPEAN CHILDREN: THE IDEFICS STUDY**
E. Gonzalez-Gil, Growth, Exercise, Nutrition and Development (GENUD) Research Group, University of Zaragoza, Zaragoza, Spain
- PO428 INTEREST OF SLOWLY DIGESTIBLE STARCH ON CARBOHYDRATE METABOLISM: META-ANALYSIS**
S. Vinoy, Mondelez Int. R&D, Nutrition Research, France
- PO429 AWARENESS, KNOWLEDGE AND BEHAVIOR OF USING FOLIC ACID SUPPLEMENTATION TO PREVENT NTDS AMONG RURAL WOMEN IN CENTRAL SOUTH CHINA**
Q. Lin, Central South University, China
- PO430 HIGH SENSITIVITY C-REACTIVE PROTEIN AND TOTAL ANTIOXIDANT STATUS IN PATIENTS WITH CHRONIC KIDNEY DISEASE, DIABETES AND HYPERTENSION**
H. Oboh, University of Benin, College of Medical Science, Dept of Medical Biochemistry, School of Basic Medical Sciences, Nigeria
- PO432 SIMULTANEOUS DETERMINATION OF SYNTHETIC DYE, PRESERVATIVE, ANTIOXIDANT AND CAFFEINE IN ENERGY DRINKS BY HPLC**
B. Asci, Yildiz Technical University, Turkey
- PO433 ENHANCING MICRONUTRIENTS SOURCING MECHANISMS TO IMPROVE EFFICIENCY OF LARGE-SCALE OIL FORTIFICATION PROJECTS IN INDONESIA**
C. Guyondet, Global Alliance For Improved Nutrition, Geneva, Switzerland
- PO434 CARDIOVASCULAR RISK FACTORS AMONG TYPE 2 DIABETIC SUBJECTS ATTENDING SELECTED DIABETES CARE FACILITIES IN BANGLADESH**
F. Saleh, Bangladesh University of Health Sciences, Bangladesh
- PO435 HYDRATION AND NON-HYDRATION DURING EXERCISE: EFFECTS ON HOMOCYSTEINE CONCENTRATIONS AND RELATED PARAMETERS**
B. Maroto, ImFine Research Group, Health and Human Performance Dept, Faculty of Physical Activity and Sport.-INEF, Technical University of Madrid, Madrid, Spain
- PO436 EFFECT OF 'BEAN SPOT INFECTIONS' ON THE NUTRITIVE VALUE OF PHASEOLUS VULGARIS (COMMON BEAN) SEEDS**
D. Steve, University of Dschang, Cameroon
- PO437 NUTRITION EDUCATION TO INCREASE FLUID INTAKE AMONG LOW DRINKER FEMALE TEENAGER IN INDONESIA**
S. Adiningsih, Public Health Faculty, Surabaya, Indonesia
- PO438 HIGH MEAT AND HETEROCYCLIC AMINES INTAKE BETWEEN INDIVIDUALS WITH DELETIONS INVOLVING GSTT1 OR GSTM1 GENES POLYMORPHISMS: SITUATION IN SAO PAULO-BRAZIL**
A. Carvalho, Department of Nutrition, Faculdade de Saude Publica, Universidade de São Paulo, São Paulo, São Paulo, Brazil
- PO439 GROWTH FACTORS FROM MILK AND DAIRY PRODUCTS: IS THERE AN IMPACT ON THE INCIDENCE OF CANCERS?**
S. Wetzler, IUnite d'évaluation de la nutrition et des risques nutritionnels - The French Agency for Food, Environmental and Occupational Health & Safety (ANSES) - Maisons-Alfort, France
- PO440 A COMPARATIVE STUDY OF WEB-BASED SELF-ADMINISTERED DIETARY RECORDS AND CLASSICAL 24-HOUR TELEPHONE-BASED DIETARY RECALLS IN A BRAZILIAN POPULATION**
A. Polo Galante, Course of nutrition, Centro Universitario São Camilo, São Paulo, Brazil
- PO441 NUTRITIONAL EFFICIENCY AND THE QUALITY MENU OF THE NATIONAL SCHOOL NUTRITION PROGRAM (PNAE) IN BRAZIL**
J. Yumi Toyoyoshi, Course of nutrition, Centro Universitario São Camilo, São Paulo, Brazil
- PO442 STRENGTHEN NUTRITION EDUCATION IN PRIMARY SCHOOLS, USING SCHOOL GARDENS BASED LEARNING IMPROVE FRUIT AND VEGETABLE CONSUMPTION AMONG STUDENTS AND TEACHERS**
C. Dardano, Food and Agriculture Organization From The United Nations
- PO443 ESTIMATION OF INSULIN RESISTANCE IN MEXICAN ADULTS BY THE [13C]GLUCOSE BREATH TEST CORRECTED FOR ENDOGENOUS TOTAL CO₂ PRODUCTION**
E. Ibarra, Department of Obesity and Eating Behaviors, Public Health Secretary, Hermosillo, Sonora, Mexico
- PO445 MULTIPLE MICRONUTRIENT DEFICIENCIES: THE TANZANIA DEMOGRAPHIC AND HEALTH SURVEY 2010**
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- PO446 DIETARY PATTERNS AND MORTALITY RISK IN THE MULTIETHNIC COHORT STUDY**
S Y. Park, Epidemiology Program, University of Hawaii Cancer Center, Honolulu, HI, USA
- PO447 OVERWEIGHT AND OBESE AMONG VERY YOUNG CHILDREN IN CHILE AND ASSOCIATION WITH EARLY DEVELOPMENT**
R. Kagawa, School of Public Health, University of California, Berkeley, USA
- PO448 THE PROBLEM OF STUNTED CHILDREN IN INDONESIA AND ITS IMPLICATION FOR THE COUNTRY DEVELOPMENT**
Atmarita, The National Institute of Health Research and Development, Ministry of Health, Indonesia
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N. Nishimura, Department of Nutritional Sciences, Nanyo City University, Nanyo, Hokkaido, Japan
- PO450 CORRELATIONS BETWEEN DIFFERENT ANTHROPOMETRIC MEASUREMENTS AND INDICES IN A SELECTED SRI LANKAN POPULATION- A PRELIMINARY STUDY**
K N W. Walatara, Department of Biochemistry, Faculty of Medical Sciences, University of Sri Jayewardenepura, Sri Lanka
- PO451 HOME BASED COMPLEMENTARY FEEDING IN COMMUNITIES OF BANGLADESH: TRIALS OF IMPROVED PRACTICES (TIPS)**
S K. Roy, Bangladesh Breastfeeding Foundation, Institute of Public Health, Dhaka, Bangladesh
- PO452 WHICH MOTHERS IN RURAL COMMUNITIES DON'T INITIATE TIMELY BREASTFEEDING OR EXCLUSIVELY BREASTFEED ? A STUDY IN 6 LOW INCOME COUNTRIES**
A. Patel, Lata Medical Research Foundation, Nagpur, India
- PO453 DESIGN AND PROCESS EVALUATION OF A PAIRED-MATCHED RANDOMIZED CONTROLLED HEALTH PROMOTION TRIAL IN ECUADOR**
R. Verstraeten, Department of Food Safety and Food Quality, Ghent University, Ghent, Belgium
- PO454 ANTI INFLAMMATORY EFFECT OF CINNAMALDEHYDE ON A MICROGLIA, MG6**
K I. Minato, Department of Applied Biological Chemistry, Meijo University, Nagoya, Japan

- PO455 WORKFLOW OF ISOLATION AND FUNCTIONAL CHARACTERIZATION OF ORDESA'S PROBIOTIC STRAIN COLLECTION**
J A. Moreno Muñoz, Laboratorios Ordesa, Barcelona, Spain
- PO456 EVOLUTION OF PHYSICAL FITNESS IN A 4 YEAR-PERIOD IN NON-INSTITUTIONALIZED ELDERLY: MADRID- EXERNET LONGITUDINAL STUDY**
O. Lopez-Torres, ImFINE Research Group, Madrid, Spain
- PO457 FOOD AVAILABILITY AND QUALITY OF THE DIET IN HOUSEHOLD FROM SPAIN (1964-2011)**
S. Del Pozo, Fundacion Española De La Nutricion (FEN), Spain
- PO458 PRODUCT FORMULATION FROM DEHYDRATED SPINACH AND CARROT: IMPACT STUDY OF THE DEVELOPED VIDEO FILM INVOLVING LOCAL LEADERS**
K. Parveen, Department of Home Science, Guru Nanak Girls Degree College, Pradesh, India Simran
- PO459 PROMESA II STUDY: EFFICACY FOR LOSING WEIGHT OF A MULTIDISCIPLINARY WEIGHT-LOSS PROGRAMME (PRONOKAL® METHOD)**
J. Perez-Guisado, Departamento de Medicina, Universidad de Cordoba, Spain
- PO460 ORGANOLEPTIC AND NUTRITIONAL EVALUATION OF VALUE ADDED PRODUCTS PREPARED FROM GERMINATED SORGHUM (SORGHUM BICOLOR) FLOUR**
V. Singh, College of Home Science, Maharana Pratap University of Agriculture & Technology, Udaipur, Rajasthan, India
- PO461 COULD BREAD BE A GOOD VECTOR IN FIGHTING HYPERTENSION IN MOROCCO?**
A. Derouiche, Universite Hassan II Mohamedia Casablanca, Ben M'sik Faculty of Science, Morocco
- PO462 EFFECT OF MAIZE PORRIDGE WITH AMARANTH-GRAIN OR MICRONUTRIENT POWDER CONTAINING NAFEEEDTA ON IRON STATUS OF KENYAN CHILDREN: TRIAL VS. SIMULATION**
C. Macharia-Mutie, Ministry of Higher Education Science and Technology, Nairobi, Kenya
- PO463 HERITABILITY OF CHRONOBIOLOGICAL PATTERN IN HEALTHY WOMEN**
J. Lopez Minguez, Department of Physiology Faculty of Biology, University of Murcia, Murcia, Spain
- PO464 THE EFFECTS OF DIETARY GLUTAMINE ON HEPATIC INFLAMMATORY RESPONSE AND MITOCHONDRIAL IN DIABETIC SEPTIC MICE**
W C. Chiu, School of Nutrition and Health Sciences, Taipei Medical University, Taipei, Taiwan
- PO465 DIETARY BIOMARKERS IDENTIFIED THROUGH METABOLOMICS AND THEIR RELATION TO COLORECTAL CANCER IN THE DIET, CANCER AND HEALTH COHORT**
L. Hansen, Danish Cancer Society Research Center, Copenhagen, Denmark
- PO466 FOOD STRATEGIES GENERATED BY HOUSEHOLDS IN POVERTY AND ITS RELATIONSHIP TO CHILD NUTRITION IN NORTHWEST MEXICO**
J M. Melendez Torres, Coordinacion de Desarrollo Regional, Centro de Investigacion en Alimentacion y Desarrollo, AC, Hermosillo, Sonora, Mexico
- PO467 PORTUGUESE FOOD AND NUTRITION ACTION PLAN**
P. Graça, Directorate-General of Health, Lisbon, Portugal
- PO468 EFFECT OF WATER INTAKE ON RESTING ENERGY EXPENDITURE IN HUMANS**
K. Okręglicka, The Department of Preventive Medicine and Hygiene, Medical University of Warsaw, Poland
- PO469 ANTIHYPERTENSIVE AND TRIGLYCERIDES-LOWERING EFFECTS OF SALVIA HISPANICA SEED EXTRACT IN HYPERTENSIVE RATS INDUCED BY L-NAME**
B. Gonzalez-Martinez, Universidad Autonoma De Nuevo Leon, Facultad De Salud Publica Y Nutricion, Mexico
- PO470 ANTIMICROBIAL EFFECT OF MUNKOYO ROOTS (RHYNCHOSIA SPECIES), USED IN PREPARATION OF NON-ALCOHOLIC INDIGENOUS FERMENTED ZAMBIAN BEVERAGES-CHIBWANTU AND MUNKOYO**
M M. Mwale, Department of Microbial, Biochemical and Food Biotechnology, The University of the Free State, Bloemfontein, South Africa
- PO471 NUTRITIONAL STATUS AND HEPATITIS B INFECTION IN THE UNITED STATES (2003-2006)**
E. Yu, Division of Nutritional Sciences, Cornell University, Ithaca, New York, USA
- PO472 VITAMIN STATUS ASSESSMENT IN YOUNG ADULTS WITH INTENSE TRAINING**
M. Garcia-Hortal, Department of Physiology, Faculty of Pharmacy, Institute of Nutrition and Food Technology "Jose Mataix", Biomedical Research Centre, University of Granada, Granada, Spain
- PO473 POTENTIAL USE OF A SCORE OF GENERAL HEALTH AND QUALITY OF LIFE IN ELDERLY ABSTAINERS AND MODERATE DRINKERS**
I. San Mauro, Immunonutrition Group, Institute of Food Science and Technology and Nutrition (ICTAN)-CSIC, Madrid, Spain
- PO474 UNBALANCED NUTRIENT INTAKE IN ADULT MEN WITH INTENSE TRAINING: MINERAL STUDY**
M. Ortiz-Franco, Department of Physiology, Faculty of Pharmacy, Institute of Nutrition and Food Technology "Jose Mataix", Biomedical Research Centre, University of Granada, Granada, Spain
- PO475 FISH OIL DECREASE HEPATIC TRIACYLGLYCEROL AND EXPRESSION OF FATTY ACID SYNTHASE IN FRUCTOSE-FED RATS**
G S F. Castro, Department of Internal Medicine/FMRP, University of São Paulo, Ribeirão Preto, Brazil
- PO476 EFFECTS OF SOLUBILIZED OKARA (TOFU REFUSE) ON INTESTINE MICROFLORA AND GASTRIC STRESS ULCER IN MICES**
M. Ogushi, Osaka Prefecture University, Graduate School of Life & Environmental Sciences, Osaka, Japan
- PO477 MIR-21 EXPRESSION IN PATIENTS WITH CELIAC DISEASE**
K. Bascuñan, School of Nutrition and Dietetics, Faculty of Medicine, University of Chile, Santiago, Chile. Laboratory of Nutrigenomics, Department of Nutrition, Faculty of Medicine, University of Chile, Santiago, Chile
- PO478 SCHOOL FOOD FORTIFICATION IMPROVES NUTRITION STATUS OF STUDENTS FROM POOR MIGRANT FAMILIES**
J. Sun, Institute of Nutrition and Food Safety, China CDC
- PO479 DEVELOPMENT OF A CULTURALLY APPROPRIATE ASSESSMENT TOOL - KNOWLEDGE, ATTITUDE AND PRACTICE QUESTIONNAIRE ON CARDIOVASCULAR DISEASES AND THEIR RISK FACTORS**
P. Amarasekara, National Hospital of Sri Lanka, Sri Lanka. Department of Clinical Medicine, Faculty of Medicine, University of Colombo, Sri Lanka
- PO480 EFFECT OF CARBOHYDRATE RESTRICTION DURING PREGNANCY ON THE GLUCOSE AND LIPID METABOLISM IN OFFSPRING**
S. Hirai, Laboratory of Food Nutrition, Graduate School of Horticulture, Chiba University, Matsudo, Chiba, Japan
- PO481 RESVERATROL ATTENUATES VASCULAR ENDOTHELIAL INFLAMMATION BY INDUCING AUTOPHAGE THROUGH CAMP SIGNALING PATHWAY**
M T. M., Research Center For Nutrition and Food Safety, Institute of Military Preventive Medicine, Third Military Medical University, Chongqing, China

- PO482 SURVEY FOR DIET AND NUTRITION INTAKE OF BEIJING PEOPLE IN OUT-HOME TABLE SERVICE RESTAURANTS**
Z. Wang, National Institute For Nutrition and Food Safety, China CDC
- PO483 FOOD INTAKE DURING THE REST PERIOD AFFECTS THE RHYTHMS OF CARBOHYDRATE AND LIPID METABOLISMS IN RATS**
N. Sano, Department of Health Science, Prefectural University of Hiroshima, Hiroshima, Japan. Okayama Medical Center, Okayama, Japan
- PO484 OMEGA-3 FATTY ACIDS IMPROVES OXIDATIVE STRESS IN WOMEN WITH POLYCYSTIC OVARY SYNDROME**
M. Rafrat, Department of Community Nutrition, Faculty of Nutrition, Tabriz University of Medical Sciences, Iran
- PO485 EFFECT OF FLAVONOIDS ISOLATED FROM GARDEN EGG VEGETABLES (SOLANUM MACROCARPUM) IN DIET INDUCED OBESE WISTAR RATS**
N. Ngwa, University of Nigeria Nsukka, Nigeria
- PO486 PROJECT YEAH: DEVELOPMENT OF A WEB-DELIVERED THEORY-BASED INTERVENTION FOR PREVENTING EXCESS WEIGHT GAIN IN YOUNG ADULTS**
K. Kattelman, Health and Nutritional Sciences Department, South Dakota State University, Brookings, South Dakota, USA,
- PO487 EVALUATION OF THE QUANTITY OF MILK CONSUMED AND BODY COMPOSITION OF HIV-POSITIVE BREASTFEEDING MOTHER**
W. Philomène, Ministry of Health, Banghi, Republic of Central Africa
- PO489 ANALYSIS OF THE MECHANISM OF ACTION OF TRYPTOPHAN INDUCED PROTEIN SYNTHESIS IN THE RAT LIVER**
S. Koike, Biological Production Science, United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology, Japan
- PO490 GLYCEMIC INDEX, GLYCEMIC LOAD AND SATIETY SENSATION IN INDUSTRIALIZED FOOD**
M. J. Ibarra Salas, Centro de Investigación en Nutrición y Salud Pública. Facultad de Salud Pública y Nutrición, Universidad Autónoma de Nuevo León, Mexico
- PO491 CONTROLLING THE INCREASE IN POSTPRANDIAL CIRCULATING STEARIC ACID CONCENTRATION IS CRUCIAL FOR PATIENTS WITH HYPERLIPIDEMIA TO PREVENT TYPE 2 DIABETES**
S. Changhao, Department of Nutrition and Food Hygiene, School of Public Health, Harbin Medical University, China
- PO492 EFFECTS OF OMEGA-3 FATTY ACID SUPPLEMENTS ON GLUTATHIONE REDUCTASE AND PEROXIDASE ACTIVITY IN TYPE2 DIABETIC PATIENTS**
F. Toorang, Cancer Research Center, Cancer Institute of Iran, Tehran University of Medical Science, Tehran, Iran
- PO493 HAND WASHING KNOWLEDGE AND PRACTICES AMONG SCHOOL CHILDREN IN BANGLADESH**
B. Banu, Dept of Health Promotion & Health Education, Bangladesh Institute of Health Sciences, Bangladesh. Dept of Biochemistry and Cell Biology, Bangladesh Institute of Health Sciences, Bangladesh
- PO494 IDENTIFICATION OF NOVEL NONINVASIVE BIOMARKERS FOR DIAGNOSIS OF CALCIUM DEFICIENCY**
L. Ying, Department of Nutrition and Food Hygiene, School of Public Health, Harbin Medical University, China
- PO495 BARRIER IN EXCLUSIVE BREAST FEEDING PRACTICE AMONG RURAL MOTHERS IN BANGLADESH: A QUALITATIVE STUDY**
M. Islam, Centre For Injury Prevention and Research Bangladesh (CIPRB), Bangladesh. Alive & Thrive Bangladesh, Bangladesh
- PO496 EGYPT NUTRITION LANDSCAPE ANALYSIS: GAPS, OBSTACLES AND OPPORTUNITIES**
G. Saleh, National Nutrition Institute, Cairo, Egypt
- PO497 ASSOCIATION OF TELEVISION VIEWING AND DIETARY BEHAVIOR WITH OVERWEIGHT AND OBESITY IN PRIMARY SCHOOL CHILDREN OF DHAKA CITY**
S. Sultana, Bangladesh Institute of Health Sciences, Bangladesh
- PO498 THE ROLE OF SMALL INTESTINE AND LIVER ON THE METABOLIC RHYTHM OF AMINO ACID IN RATS FED VARIOUS PROTEIN DIETS**
Y. Nishida, Department of Health Science, Prefectural University of Hiroshima, Hiroshima, Japan
- PO499 DELAYED INITIATION OF AND NON-EXCLUSIVE BREASTFEEDING AMONG CHILDREN AGED 0-23 MONTHS IN SOUTH ASIA: A POOLED ANALYSIS**
K. Agho, University of Western Sydney, Australia
- PO500 MONITORING THE COMPLIANCE TO THE INTERNATIONAL CODE OF MARKETING OF BREASTMILK SUBSTITUTES: LABELLING VIOLATIONS IN INDONESIA**
U. Parady, Department of Communication, University Indonesia, Depok, West Java, Indonesia
- PO501 A SHIFT IN OCCUPATIONAL PHYSICAL ACTIVITY AND ANIMAL PROTEIN CONSUMPTION LEAD TO OVERWEIGHT AMONG RURAL INDONESIAN ADULT MEN**
H. Khusun, SEAMEO Regional Center For Food and Nutrition, Universitas Indonesia, Jakarta, Indonesia
- PO502 HIGH FRUCTOSE DIET ALTERS INTESTINAL PERMEABILITY AND ELECTROPHYSIOLOGY IN ADULT MICE**
J-P. Lalle, Inra, Saint-Gilles, France
- PO503 THE NUTRITIONAL VALUE, WATER USE AND NUTRIENT CONTRIBUTION OF TRADITIONAL AFRICAN LEAFY VEGETABLES**
A. Oelofse, Department of Human Nutrition, Faculty of Health Sciences, University of Pretoria, Pretoria, South Africa
- PO504 METHOD NON-INVASIVE IN BLOOD OF MICRORNAS BIOMARKER FOR PREVENTIVE DIAGNOSIS OF CELIAC'S, CROHN'S, WILSON'S DISEASES WITH UNKNOWN ETHIOLOGY**
H. Boughanem, Dept I+D/Biotechnology Company Bioeasy SL, Spain
- PO505 A NOVEL APPROACH TO THE DESIGN OF COMPLEMENTARY FEEDING BEHAVIOUR CHANGE INTERVENTIONS**
R. Aunger, London School of Hygiene and Tropical Medicine (LSHTM), London, UK
- PO506 EFFECTS OF VITAMIN C ON CELL CYCLE AND APOPTOSIS**
S. Ebrahimpour Koujan, MS-BS in nutrition, Department of Nutrition, Schools of Health and Nutrition, Tabriz University of Medical Sciences, Tabriz, Iran
- PO508 LUTEIN AND ZEAXANTHIN STATUS. DIETARY INTAKE, SERUM CONCENTRATIONS AND MACULAR PIGMENT DENSITY IN SPANISH SUBJECTS**
B. Olmedilla-Alonso, Department of Metabolism and Nutrition, Institute of Food Science, Technology and Nutrition (ICTAN-CSIC), Madrid, Spain
- PO509 CHEMOPREVENTIVE AND ANTI-CANCER PROPERTIES OF POMEGRANATE SEED OIL (PSO)**
S. Ebrahimpour Koujan, FMS-BS In Nutrition, Department of Nutrition, Schools of Health and Nutrition, Tabriz University of Medical Sciences, Tabriz, Iran
- PO510 THE PERFORMANCE OF THE HOUSEHOLD FOOD IN-SECURITY (ACCESS) SCALE (HFAS) IN COMMUNITIES WITH VARYING EXPOSURE TO ECONOMIC MEANS TESTING**
M. Nnyepi, University of Botswana, Botswana

- PO511 ANTHOCYANIN DAILY INTAKE AND ITS ASSOCIATION WITH HEALTH INDICATORS IN COMMUNITY POPULATION**
W H. Ling, Sun Yat-Sen University, China
- PO512 THE DISTRIBUTION OF THE SNPS WHICH HAVE THE ASSOCIATION WITH IRON DEFICIENCY ANEMIA IN CHINESE**
W. Piao, Institute For Nutrition and Food Safety, Chinese Center For Disease Control and Prevention, 29 Nan Wei Road, Beijing, China
- PO513 IS ADHERENCE TO THE GREEK MEDITERRANEAN DIET BY ELDERLY GREEK AUSTRALIANS ASSOCIATED WITH THE GREEK HOME GARDEN?**
T. Damos-Thodis, Department of Dietetics and Human Nutrition, Latrobe University, Melbourne, Victoria, Australia
- PO514 DISTRIBUTING COMPLEMENTARY FOOD SUPPLEMENT-YINGYANGBAO REDUCING THE ANEMIA IN YOUNG CHILDREN IN A COUNTY OF SICHUAN PROVINCE AFTER WENCHUAN EARTHQUAKE**
L. Wang, JInstitute For Nutrition and Food Safety, Chinese Center For Disease Control and Prevention, China
- PO515 EXPOSURE TO NON-SWEET MALTODEXTRIN SOLUTION REDUCES WEIGHT GAIN AND CHANGES THE PREFERENCE FOR SWEET TO PROTEIN SOLUTIONS IN PIGS**
S A. Guzman-Pino, Servei de Nutricio i Benestar Animal (SNiBA), Departament de Ciència Animal i dels Aliments, Universitat Autònoma de Barcelona, Barcelona, Spain
- PO516 MODULATION OF EPIGENETIC STATES AND INFANT IMMUNE SYSTEM BY DIETARY SUPPLEMENTATION WITH ω -3 PUFA DURING PREGNANCY IN AN INTERVENTION STUDY**
H S. Lee, Epigenetics Group, International Agency For Research On Cancer, France
- PO517 MODERATE CONSUMPTION OF A NOVEL ORANGE DRINK PROMOTES AN IMPROVEMENT IN LIPID PROFILE AND ANTIOXIDANT ENDOGENOUS COMPOUNDS IN HEALTHY MICE**
B. Escudero-Lopez, Area of Nutrition and Food Sciences. Department of Molecular Biology and Biochemistry Engineering. Universidad Pablo de Olavide, Sevilla, Spain
- PO518 THE USE OF A COMBINED VITAMIN B12 INDICATOR TO DETERMINE B12 STATUS IN MEXICAN ADULT WOMEN AND CHILEAN ELDERLY**
A. Brito, Institute of Nutrition and Food Technology (INTA), University of Chile, Chile
- PO519 UCP2 ALA55VAL POLYMORPHISM ARE NOT ASSOCIATED WITH WEIGHT LOSS AFTER THREE YEARS OF ROUX-EN Y GASTRIC BYPASS**
C N. Ferreira, Department of Medical Science, University of São Paulo, Ribeirão Preto, São Paulo, Brazil
- PO520 PREVALENCE OF INADEQUACY INTAKE FOR OLDER PEOPLE: THE USE OF NATIONAL CANCER INSTITUTE (NCI) METHOD**
J E. Corrente, UNESP, Biostatistics Department, Botucatu, São Paulo, Brazil
- PO521 CLINICAL USEFULNESS OF HISTORICAL HEIGHT LOSS AND CURRENT HEIGHT/KNEE HEIGHT RATIO IN THE NUTRITIONAL ASSESSMENT OF THE ELDERLY**
K. Akiko, Osaka Shoin Women's University, Japan
- PO522 EXPLORATORY ASSESSMENT OF DIETARY PRACTICES WITH EMPHASIS ON FAT INTAKE TRENDS IN A RURAL SETTING IN HARYANA, INDIA**
A. Singh, All India Institute of Medical Sciences, New Delhi, India
- PO523 LEPTIN INDUCES THE ACTIVATION OF PROTEIN RELATED WITH ENERGY HOMEOSTASIS IN C2C12 MUSCLE CELLS**
F J Garcia, CIBER Fisiología de la Obesidad y Nutrición. Laboratory of Molecular Biology Nutrition and Biotechnology, University of the Balearic Islands, University of the Balearic Islands, Spain
- PO524 LINKS AMONG DIETARY HABITS OF FIRST-FORMERS AND FAMILY SOCIOECONOMIC STATUS IN LITHUANIA**
U. Žaltauskė, Institute of Health Research, Academy of Medicine, Lithuanian University of Health Sciences, Kaunas, Lithuania
- PO525 DIFFERENTIAL METABOLIC EFFECTS OF HEPATIC MONOUNSATURATED FATTY ACIDS**
M. Strable, Department of Nutritional Sciences, University of Wisconsin-Madison, Madison, USA
- PO526 VOLUME AND PATTERNS OF PHYSICAL ACTIVITY IN RURAL CAMBODIAN CHILDREN AGED 15-MONTHS**
M. Christine Ogden, Department of Nutrition, Exercise and Sports, University of Copenhagen, Denmark
- PO527 FOOD CONSUMPTION AND MACRONUTRIENT INTAKE IN RELATION TO SERUM BRANCHED-CHAIN AND AROMATIC AMINO ACIDS IN YOUNG ADULTS**
V. Mikkilä, Department of Food and Environmental Sciences, University of Helsinki, Helsinki, Finland
- PO528 SECULAR GROWTH OF CHILDREN IN INDONESIA**
S. Sandjaja, Center For Applied Health Technology and Clinical Epidemiology, Bogor, Indonesia
- PO529 ASSOCIATION OF POSTNATAL CATCH-UP GROWTH WITH BODY COMPOSITION INDICES OF CHILDREN AT 2 YEARS OF AGE: A PROSPECTIVE COHORT STUDY**
G J M. Nanayakkara, Department of Applied Nutrition, Faculty of Livestock, Fisheries & Nutrition, Wayamba University of Sri Lanka, Sri Lanka
- PO530 COMPROMISED GUT PERMEABILITY, INFLAMMATION, AND STUNTING AMONG 24 MONTH OLD CHILDREN OF RURAL BANGLADESH**
K. Schulze, Center For Human Nutrition, Johns Hopkins Bloomberg School of Public Health, Bangladesh
- PO531 FOOD SAFETY KNOWLEDGE, ATTITUDES, PRACTICES OF TRADITIONAL FISH HANDLERS AND CONSUMERS IN GHANA**
N. Amuna, Natural Resources Institute, University of Greenwich, Greenwich, UK
- PO532 BREAKFAST SKIPPING AND FIRST BORN STATUS ARE ASSOCIATED WITH OBESITY AMONG ADOLESCENT SCHOOL GIRLS IN SRI LANKA**
T. Roopasingam, Department of Applied Nutrition, Faculty of Livestock, Fisheries and Nutrition, Wayamba University of Sri Lanka, Makandura (60170), Sri Lanka
- PO533 THE INFLUENCE OF GENETICS ON MATERNAL WEIGHT GAIN DURING PREGNANCY**
S. Altmäe, EURISTIKOS Excellence Centre for Paediatric Research, University of Granada, Granada, Spain
- PO534 IMPACT OF MATERNAL BODY MASS INDEX AND GESTATIONAL DIABETES ON NEONATAL OUTCOME**
I. Rusanova, EURISTIKOS Excellence Centre for Paediatric Research, Spain
- PO535 WEB DATABASE OF NUTRITIONAL COMPOSITION AND ECONOMIC COST OF FISH AND SEAFOOD AS A NEW TOOL TO PROMOTE CONSUMPTION IN SPAIN**
E Ruiz, Fundacion Española De La Nutricion (FEN), Madrid, Spain
- PO536 WEIGHT LOSS MAY BE ACCELERATED THROUGH A CHRONONUTRITION-BASED PROTEIN DIET**
R. Bravo, Chrononutrition laboratory, Faculty of Science, Department of Physiology, University of Extremadura, Badajoz, Spain
- PO537 SERUM MARKERS OF INFLAMMATION AND OXIDATIVE STRESS IN HEALTHY INDIVIDUALS AND PATIENTS WITH METABOLIC SYNDROME**
K. Araujo, Laboratorio de Nutricion, Universidad Simon Bolivar, Caracas, Venezuela

- PO538 DETERMINANTS ASSOCIATED WITH REGULAR WEIGHTING OF UNDER FIVE CHILDREN IN POSYANDU IN KELAPA GADING SUBDISTRICT, JAKARTA, INDONESIA, IN 2011**
H. Umniyati, YARSI University, Yakarta, Indonesia
- PO539 ENERGY AND NUTRIENT INTAKES FROM COMPLEMENTARY FOODS AND CAREGIVER RESPONSIVE FEEDING PRACTICES AMONG 405 BANGLADESHI INFANTS AND YOUNG CHILDREN <24M**
G. Guldán, Asian University For Women, Bangladesh
- PO540 HEPICIDIN, INFLAMMATION AND IRON STATUS IN PREGNANT WOMEN IN KAMPALA, UGANDA**
R. Baingana, Department of Biochemistry, College of Natural Sciences, Makerere University, Uganda
- PO541 A NEW MEASUREMENT OF MALNUTRITION**
J. Xu, Michigan Dept of Community Health (MDCH), USA
- PO542 ARE NUTRITION LABELS ON PACKED FOODS USEFUL TOOLS IN REDUCING SODIUM INTAKE?**
Z. Buyuktuncer-Demirel, Department of Nutrition and Dietetics, Faculty of Health Sciences, Hacettepe University, Ankara, Turkey
- PO543 ASSOCIATION OF CALCIUM INTAKE TO BONE STRUCTURE AND STRENGTH INDEXES OF ADOLESCENT SWIMMERS**
A. Gomez Bruton, GENU Research Group, Universidad De Zaragoza, Spain
- PO544 EFFECT OF SOYBEAN OIL QUALITY FORTIFIED ON THE RETENTION OF VITAMIN A IN MOROCCO**
B. Lamyae, Diet and Nutrition Laboratory, Sciences School, Ibn Tofail University, Kenitra, Morocco
- PO545 DIET, NUTRITION AND ENERGY EXPENDITURE AT THE CATALAN GALLEYS S. XIV AND XV**
F. Drobnic, Sports Physiology Dept. Olympic Training Center Girsane-CAR, Spain
- PO546 KNOWLEDGE AND ATTITUDES ON NUTRITION AND HEALTH: A MIXED METHODS STUDY OF IRISH ADOLESCENTS**
S. Fallows, University of Chester, Cheshire, UK
- PO547 INTERACTIVITY - A DECISIVE FACTOR IN A WEB PLATFORM TO PROMOTE HEALTHY EATING**
P. Graça, Directorate General of Health, Lisboa, Portugal. Faculty of Nutrition and Food Sciences of the University of Porto, Porto, Portugal
- PO548 INTAKE OF FAT AND ANTIOXIDANT VITAMIN IN PARKINSON AND ALZHEIMER DISEASES IN A RURAL REGION IN JALISCO, MEXICO**
M. Navarro Meza, CICAN Centro Universitario Del Sur, Universidad De Guadalajara, Mexico
- PO549 ARE IMPRECISE MEASUREMENTS INFLATING STUNTING PREVALENCE IN DEVELOPING COUNTRIES?**
W L. Conde, School of Public Health, University of São Paulo, Brazil
- PO550 IMPORTANCE OF THE SUPPLEMENT OF VITAMINS AND MINERALS IN BONE AND MUSCLE STRESS**
P. Freitas, Rio De Janeiro, Brazil
- PO551 NEW METHOD OF DIAGNOSTIC ANALYSIS FOR NUTRITION- PERFIL METABOLICO DR. COSENDEY***
P. Freitas, Rio De Janeiro, Brazil
- PO552 ELEVATED CARDIOMETABOLIC RISK IN OVERWEIGHT AND CENTRALLY OBESE NORMAL WEIGHT SPANISH CHILDREN OF PRESCHOOL AGE**
D. Valvi, Centre For Research In Environmental Epidemiology (CREAL), Barcelona, Spain. Hospital del Mar Medical Research Institute (IMIM), Barcelona, Spain. CIBER Epidemiologia y Salud Publica (CIBERESP), Barcelona, Spain
- PO553 INFLUENCE OF TWO FUNCTIONAL INGREDIENTS ON THE PLASMA CONCENTRATIONS OF LEPTIN, GHRELIN AND GLUCAGON LIKE PEPTIDE1 IN LEAN AND OBESE RATS**
J. Alcalá-Bejarano, Department of Physiology, Institute of Food Technology, University of Granada, Granada, Spain
- PO554 BRAZILIAN NUT: A WAY TO IMPROVE GLUTATHIONE PEROXIDASE ACTIVITY IN ELDERLY WITH MILD COGNITIVE IMPAIRMENT**
B. Cardoso, Faculty of Pharmaceutical Sciences, University of São Paulo (USP), São Paulo, Brazil
- PO555 MARINE OMEGA 3 FATTY ACIDS PREVENT THE TRANSMISSION OF MATERNAL-FETAL OBESITY AND INSULIN RESISTANCE IN RATS**
N. Guriec, Federation of Food and Human Nutrition, Department of Nutritional Sciences, Hospital and University of Brest, Brest, France
- PO556 HEALTH-RELATED QUALITY OF LIFE AND FOOD VARIETY OF EUROPEAN ELDERLY**
C. Morais, Faculdade De Ciências Da Nutrição E Alimentação Da Universidade Do Porto, Portugal
- PO557 MUSCLE MASS AND MUSCULAR STRENGTH IMPACT OF A SUPPLEMENTATION WITH NUTRALYS® PEA PROTEINS OR WHEY PROTEINS IN VOLUNTEERS PARTICIPATING IN PHYSICAL TRAINING**
N. Babault, Expert Centre for Performance, UFR STAPS, Dijon, France
- PO558 OVERWEIGHT AND OBESITY IN XAVANTE INDIANS FROM MATO GROSSO, BRAZIL**
L.P. Soares, Departamento de Medicina Social, Faculdade de Medicina de Ribeirão Preto, Universidade de São Paulo, Ribeirão Preto, Brasil
- PO559 PREVALENCE OF OVERWEIGHT AND OBESITY IN SCHOOLCHILDREN 2-12 YEARS OLD FROM FERNANDOPOLIS-SP, BRAZIL**
L.M. Soares Franciscon, Camilo Castelo Branco University - Fernandópolis, São Paulo, Brazil. OI Project of Childhood Obesity - Fernandópolis, São Paulo, Brazil
- PO560 QUANTITATIVE ASSESSMENT OF BREASTFEEDING PRACTICES IN MOROCCAN LACTATING WOMEN DURING 6 MONTHS AFTER BIRTH USING STABLE ISOTOPIC DILUTION TECHNIQUE**
C. Ghizlane, University Ibn Tofail, Faculty of Sciences, Department of Biology, Morocco
- PO561 EATING RATE IS ASSOCIATED WITH EATING BEHAVIORS ACCORDING TO GENDER AND OBESITY**
S. Park, Semyung University, Korea,
- PO562 CONSUMPTION EFFECT OF CALORIC AND NON-CALORIC BEVERAGES ON FOOD INTAKE IN RATS**
M. Hagen, Department of Internal Medicine, Nutrition Course and CESAN-HCPA, Federal University of do Rio Grande do Sul, Porto Alegre, Brazil
- PO563 A QUALITATIVE INTERVIEW STUDY ON ETHICAL ASPECTS OF MARKETING AND FOOD ADVERTISING FOR CHILDREN. EVALUATION OF PERCEPTIONS, ATTITUDES AND BELIEFS OF PARENTS**
J.J. Hernandez-Torres, EURISTIKOS Excellence Centre for Paediatric Research, University of Granada, Granada, Spain
- PO564 EFFECT OF TAURINE SUPPLEMENTATION, ASSOCIATED WITH NUTRITIONAL COUNSELING, ON ENERGY METABOLISM IN OBESE WOMEN**
F.T. Rosa, Department of Internal Medicine, Faculty of Medicine of Ribeirão Preto, University of São Paulo, São Paulo, Brazil
- PO565 IMPACT ASSESSMENTS CONDUCTED AT TIME OF EXIT INCONSISTENTLY PREDICT LONGER TERM PROGRAM BENEFIT IN TITLE II FOOD ASSISTANCE PROGRAMS**
B. Rogers, Friedman Nutrition School Tufts University, Division of Development and Growth, Department Child and Adolescent, School of Medicine and University Hospital, Geneva, Switzerland

- PO566 CONTRIBUTION OF STABLE ISOTOPES TO VALIDATE THE PRACTICE OF BREASTFEEDING IN BURKINA FASO**
N M. Coulibaly, Institut De Recherche En Science De La Sante, Direction Regionale De L'Ouest, Burkina Faso
- PO567 ZINC SUPPLEMENTATION FOR THE TREATMENT OF CHILDHOOD DIARRHEA IN INDIA: THE ASSOCIATION BETWEEN PROVIDER KNOWLEDGE AND PRACTICE**
L. Lamberti, Johns Hopkins School of Public Health, Department of International Health, Baltimore, MD, USA
- PO568 PERSISTENCE OF RECOVERY FROM MALNUTRITION AND HIV PROGRESSION AMONG HIV+ ADULTS GRADUATING FROM THE ETHIOPIAN FOOD BY PRESCRIPTION PROGRAM**
J. Coates, Tufts University Friedman School of Nutrition Science and Policy, USA
- PO569 OXIDATIVE STRESS IN EPILEPTIC CHILDREN AND ADOLESCENTS UNDER INDICATION TO KETOGENIC DIET PROGRAM IN BRAZIL**
P. Lima, Department of Nutrition, School of Public Health - University of Sao Paulo, Sao Paulo, Brazil
- PO570 WHOLE AND REFINED GRAINS HAVE DIFFERENTIAL EFFECTS ON CARDIOMETABOLIC MARKERS IN OVERWEIGHT INDIVIDUALS WITH NORMAL FASTING GLUCOSE VERSUS PREDIABETES**
K. Harris, Department of Nutritional Sciences, The Pennsylvania State University, University Park, PA, USA
- PO571 BIVARIATE ANALYSIS: AGREEMENT BETWEEN VALUES OF WAIST CIRCUMFERENCE OR BODY MASS INDEX IN THE DIAGNOSIS OF EXCESS FAT IN ADOLESCENTS**
D. Oliveira, School of Public Health - University of Sao Paulo, Sao Paulo, Brazil
- PO572 FINDING EVIDENCE TO DEMONSTRATE THE EFFECTIVENESS OF HUMAN-RIGHTS BASED APPROACHES TO NUTRITION AND HEALTH PROMOTION**
C. de la Cruz, Department of Public Health, Faculty of Health and Medical Sciences, Copenhagen University, Copenhagen, Denmark
- PO573 ASSOCIATION OF BMI AND NUMBER OF SIBLINGS AMONGST CHILDREN IN PERU: RESULTS OF A LONGITUDINAL STUDY**
M R. Liria, Instituto De Investigacion Nutricional, Lima, Peru
- PO574 GUIDELINE DEVELOPMENT BASED ON CONSUMER NEED**
T. Gill, Boden Institute, University of Sydney, Sydney, NSW, Australia
- PO575 THE USE OF PARTICIPATORY, COMMUNITY-LED VIDEOS IN INDIA: PUSHING NEW BUTTONS FOR NUTRITION, LIVELIHOODS AND AGRICULTURE**
P. Koniz-Booher, Strengthening Partnerships, Results and Innovations in Nutrition Globally (SPRING), JSI Research & Training Institute, Inc., Arlington, VA, USA
- PO577 BODY IMAGE, DISTURBED EATING ATTITUDES, WEIGHT CONTROL BEHAVIORS OF FEMALE MIDDLE SCHOOL STUDENTS ACCORDING TO THE BODY MASS INDEX**
H K. Moon, Department of Food and Nutrition, University of Dankook, Korea
- PO578 FACTORS ASSOCIATED TO AUTO-DECLARED HYPERTENSION IN A POPULATION-BASED STUDY IN CAMPINAS/SP - BRAZIL**
L. Marin-Leon, Department of Public Health, State University of Campinas, Brazil
- PO579 EXPERIMENTAL DESIGN OF REVERSED-PHASE HIGH PERFORMANCE LIQUID CHROMATOGRAPHIC CONDITIONS FOR SIMULTANE DETERMINATION OF CAFFEINE, ALLURA RED, PONCEAU AND CARMOISINE**
T. Dinc, Yildiz Technical University, Turkey
- PO580 KETOGENIC DIET [KD] AS A SUCCESSFUL TREATMENT FOR FEVER INDUCED REFRACTORY EPILEPSY SYNDROME [FIRES]**
R. Sudhakar, Department of Dietetics, Dayanand Medical College & Hospital, Ludhiana 141001, Punjab, India
- PO581 COMPARISON OF INFANT FEEDING PRACTICES IN TWO HEALTH SUB-DISTRICTS WITH DIFFERENT BABY FRIENDLY STATUS IN MPUMALANGA PROVINCE**
M. van der Merwe, Integrated Nutrition Programme, Department of Health, Nelspruit, Mpumalanga, South Africa
- PO582 ASSOCIATION BETWEEN VITAMIN B12 STATUS AND NEURAL ACTIVITY ACROSS LIFE CYCLE: AN INDIAN SCENARIO**
S. Sambashivaiah, Department of Physiology, St John's Medical College. Johnnangar, Bangalore, India
- PO583 FOOD NUTRITIONAL TABOOS AMONGST ESAN WOMEN IN EDO STATE, NIGERIA**
E. Idialu, Department of Vocational and Technical Education, Ambrose Alli University, Ekpoma, Edo State, Nigeria
- PO584 NUTRITIONAL AND TOXICOLOGICAL EVALUATION OF OIL PALM ORYCTES RHINOCEROSUS LARVA OIL**
O. Oluba, Joseph Ayo Babalola University, Nigeria
- PO585 NUTRICION EN LA AMERICA LATINA**
A. Amaral, Usp, Descalvado, Brazil
- PO586 EFFECT OF TWO-DAYS SEVERE CALORIE RESTRICTION ON ADIPOKINE SECRETION IN SUBCUTANEOUS ADIPOSE TISSUE IN OBESE WOMEN**
M. Siklova-Vitkova, Department of Sports Medicine, Third Faculty of Medicine, Charles University, Prague, Czech Republic
- PO854 IMPACT OF PERINATAL DIFFERENT INTRAUTERINE ENVIRONMENTS ON CHILD GROWTH AND DEVELOPMENT IN THE FIRST SIX MONTHS OF LIFE - IVAPSA BIRTH COHORT**
V L. Bosa, Nucleo de Estudos da Saude da Criança e do Adolescente, Hospital de Clinicas de Porto Alegre, Faculdade de Medicina, Universidade Federal do Rio Grande do Sul, Brazil
- PO1425 WORKING TIME CAN INFLUENCE DIET QUALITY**
K. Hemiö, Department of Chronic Disease Prevention, National Institute For Health and Welfare, Helsinki, Finland. Human Factors at Work, Finnish Institute of Occupational Health, Helsinki, Finland
- PO1697 THE RELATIONSHIP BETWEEN SUBJECTIVE SYMPTOMS OF COMPLAINT AND DIETARY, EXERCISE HABITS OF SCHOOLCHILDREN**
K. Miyanishi, Department of Health and Nutrition, Nigata, Japan
- PO1439 EFFECT OF DIFFERENT PHYSICAL ACTIVITY ON BONE MINERALS IN RATS**
T. Sato, Department of Human Environmental Sciences, Jissen Women's University, Tokyo, Japan
- PO3299 CAFFEINE PREVENTS EXPERIMENTAL LIVER CIRRHOSIS BY SNAIL-1 INHIBITION AND NRF2 ACTIVATION**
D. Gordillo-Bastidas, Research In Biosciences, Nutrition and Integral Wellness Carrier, Instituto Tecnológico Y De Estudios Superiores De Monterrey (ITESM), Guadalajara Campus, Zapopan, Jalisco, Mexico
- PO3301 ERYTHROCYTE ZINC PROTOPORPHYRIN IN SOUTH AFRICAN CHILDREN IS NOT AFFECTED BY LOW LEVEL LEAD EXPOSURE BUT BY SAMPLE PREPARATION (FREEZING)**
B. Troesch, Nutrition Innovation Center, DSM Nutritional Products, Kaiseraugst, Switzerland
- PO3306 BLOOD CELL TRANSCRIPTOMICS AS A SOURCE OF BIOMARKERS OF ARTICULAR HEALTH**
J. Sanchez, Laboratory of Molecular Biology, Nutrition and Biotechnology (Nutrigenomics), University of the Balearic Islands and CIBER Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Palma de Mallorca, Spain

PO3304 RESISTANT STARCH PROMOTES INCREASED FAT OXIDATION IN HEALTHY ADULTS

E. Giles, Division of Diabetes, Endocrinology, & Metabolism, University of Colorado, Anschutz Medical Campus, USA

PO3300 COMPREHENSIVE LIST OF ENDOGENOUSLY PRODUCED VITAMIN D3 METABOLITES

I. Bendik, Department Human Nutrition and Health, DSM Nutritional Products Ltd, Kaiseraugst, Switzerland

PO3303 PROFILING OF GLYCEMIC INDEX OF RICE SAMPLES USING HIGH RESOLUTION MELTING TECHNOLOGY

K. Bhaskaran, Temasek Polytechnic, Singapore, Singapore

PO3305 ESSENTIALITY OF NUTRIENTS: NEW FRONTIERS

P. Jones, Richardson Centre For Functional Foods and Nutraceuticals, University of Manitoba, Canada

PO3307 BIOMARKERS OF DAIRY FOOD INTAKE IN ERYTHROCYTES

A. Berriozabalgoitia, Lactiker Research group; Biochemistry and Molecular Biology, University of the Basque Country/EHU, Vitoria-Gasteiz, Spain

T2. Nutrition through life course**PO444 A SYSTEMATIC REVIEW AND IMPLEMENTATION EVALUATION OF FEEDING PROGRAMMES FOR INFANTS AND YOUNG CHILDREN: FINDINGS AND IMPLICATIONS**

E. Kristjansson, School of Psychology, Faculty of Social Sciences, University of Ottawa, Ottawa, Canada

PO587 SUPPLEMENTRY FOOD FOR LACTATING MOTHERS

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PO588 DIETARY PRACTICES OF PREGNANCY WOMEN AND ITS EFFECT ON THEIR PREGNANCY OUTCOME-TAMALE (NORTHERN REGION)

Y. Agyemang, Personal Service, Kumasi, Ghana

PO589 AN INVESTIGATION INTO CHILD FEEDING PRACTICES OF YOUNG MOTHERS FROM TSHILATA VILLAGE, VUWANI, LIMPOPO PROVINCE, SOUTH AFRICA

L. Maliwichi, Department of Consumer Science, University of Venda, Thohoyandou, Limpopo Province, South Africa

PO590 EVALUATION OF OXIDATIVE STRESS AND OXIDANT DEFENCE IN PREECLAMPSIA

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PO591 MATERNAL VITAMIN DEFICIENCY INCREASE THE RISK OF PREECLAMPSIA

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PO592 THE EFFECT OF ATTITUDES TO NUTRITION AND HEALTH ON CONSUMPTION OF FAT, FIBRE AND FOOD INTAKE VARIETY IN POLISH GIRLS

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PO593 THE EFFECT OF AGE ON FOOD INTAKE VARIETY IN REPRESENTATIVE SAMPLE OF POLISH GIRLS AGED 13-21 YEARS

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PO594 MARKERS OF COGNITIVE FUNCTION: CRITERIA FOR VALIDATION AND CONSIDERATIONS FOR INVESTIGATING THE EFFECTS OF FOODS AND NUTRIENTS IN AGEING

C. A. de Jager, School of Public Health and Family Medicine, University of Cape Town, Cape Town, South Africa

PO595 COLOSTRUM AND MATURE MILK COMPOSITION OF LACTATING WOMEN IN UMUHIA, URBAN NIGERIA

P. Ukegbu, Dept of Human Nutrition and Dietetics, Michael Okpara University of Agriculture, Umudike, Abia State, Nigeria

PO596 ASSESS A SCHOLAR MENUS VALIDATION PROGRAMME IN THE HEALTH DEPARTMENT OF ELDA (ALICANTE)

G. Arroyo Fernandez, Public Health Center of Elda, Alicante, Spain

PO597 ASSESSING THE PATTERN OF MEALS IN SCHOOLGIRLS WITH EATING DISORDERS IN COMPARISON WITH HEALTHY GROUP, 2010

R. Roustaei, National Nutrition And Food Technology Research Institute, Faculty of Nutrition Sciences And Food Technology, Shahid Beheshti University of Medical Sciences, Iran

PO599 THE RELATIONSHIP BETWEEN EATING HABITS AND STRESS RESPONSE IN YOUNG STUDENTS

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PO600 FOOD SOURCES OF VITAMIN D AND ITS DEFICIENCY IN LATVIAN MALES

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PO601 THE ENERGY REQUIREMENT OF SENEGALESE EXCLUSIVELY BREASTFED INFANTS IS COVERED BY HUMAN MILK UNTIL 6 MONTHS OF AGE

S. Wade, Universite Cheikh Anta Diop De Dakar, Senegal

PO602 RELATIONSHIP BETWEEN UNSATURATED FATTY ACID (DHA) WITH THE GROWTH AND DEVELOPMENT OF SEVERE MALNOURISHED CHILDREN UNDER TWO YEARS

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PO603 COST AND EFFECTIVENESS OF TRAINING AND SUPERVISION OF FRONTLINE WORKERS ON EARLY BREASTFEEDING PRACTICES IN BANGLADESH

S. Talukder, Nutrition, Eminence, Dhaka, Bangladesh

PO604 ASSESSING PRESENT BEHAVIOR OF MOTHER'S AND HEALTH WORKERS TOWARDS IYCF PRACTICES, IN NORTHERN RURAL PART, BANGLADESH

D. Farhana, Eminence, Dhaka, Bangladesh

PO605 DIETARY BEHAVIOR AND NUTRITIONAL STATUS OF THE SELECTED ADOLESCENT GIRLS IN DHAKA CITY

K. Poddar, Food and Nutrition Department, Bangladesh Home Economics College under University of Dhaka, Bangladesh

PO606 CASE-CONTROL STUDY ON ANEMIA AMONG ELDERLY WOMEN IN THREE DISTRICT OF CHINA

P. Song, Institute of Nutrition and Food Safety, Chinese Center for Disease Control and Prevention, Beijing, China

PO607 FEEDING PRACTICES AND NUTRITIONAL PARAMETERS OF CHILDREN AGED 6-14 YEARS IN MAKEPE MISSOKE (CAMEROON)

W. Djeukeu Asongni, University of Douala, Cameroon

PO608 PREVALENCE AND TRENDS OF CHILDHOOD MALNUTRITION IN GHANA

C. Nti, University of Ghana, Legon, Ghana

PO609 IMPACT OF NUTRITION AWARENESS OF MOTHERS ON NUTRITIONAL STATUS, IQ & ICDS COVERAGE OF THEIR CHILDREN IN WEST BENGAL, INDIA

D. Chaudhuri, Department of Biochemistry and Nutrition, All India Institute of Hygiene and Public Health (West Bengal University of Health Sciences), Kolkata, West Bengal, India

- PO610 COMPARATIVE STUDY OF NUTRITIONAL STATUS OF BOARDING AND NON-BOARDING PUPILS IN SELECTED SCHOOLS IN THE ACCRA METROPOLIS**
F. Intiful, University of Ghana, Accra, Ghana
- PO611 COMPARATIVE STUDY OF IODINE NUTRITURE OF SCHOOL-AGE CHILDREN (6-12 YEARS) AT LOCAL GOVERNMENT LEVELS IN NIGERIA**
V. Ojukwu, The International School, University of Ibadan, Ibadan, Nigeria
- PO612 PREVALENCE OF METABOLIC CHANGES ASSOCIATED WITH BODY WEIGHT IN CHILDREN AND ADOLESCENTS AT A REFERENCE CENTER FOR NUTRITIONAL TREATMENT**
L. Rodrigues, Federal University of the State of Rio de Janeiro (UNIRIO), Rio de Janeiro, Brazil
- PO613 LONGITUDINAL STUDY OF THE STATURO-PONDERAL STATUS ACROSS FOUR COHORTS OF MIDDLE SCHOOL STUDENTS IN NORTH WESTERN MOROCCO**
R. Sbaibi, Nutrition and health laboratory, Ibn Tofail University, Morocco
- PO614 BREAST MILK INTAKE OF 9-MONTH OLD ZAMBIAN INFANTS GIVEN FORTIFIED COMPLEMENTARY FOODS**
V. Owino, Winfoods Project, University of Nairobi, Kenya
- PO615 EATING PATTERNS OF BRAZILIAN ADOLESCENTS AND THEIR COMPLIANCE WITH THE FOOD GUIDE PYRAMID**
C. C. Enes, Faculdade de Nutrição, Pontifícia Universidade Católica De Campinas, Brazil
- PO616 AUTOPHAGY ALLEVIATES NEURODEGENERATION CAUSED BY THIAMINE DEFICIENCY**
Z. Ke, Key Laboratory of Nutrition and Metabolism, Institute for Nutritional Sciences, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, China
- PO617 SOCIOECONOMIC DISPARITIES IN DIETARY INTAKES AND DIETARY QUALITY OF FRENCH ADOLESCENTS AGED 11-17 YEARS**
P. Drouillet-Pinard, Dietary Survey Unit, French Agency for food, Environmental and Occupational Health Safety (ANSES), Maisons-Alfort, France
- PO618 SOCIOECONOMIC DISPARITIES IN DIETARY INTAKES AND DIETARY QUALITY OF FRENCH CHILDREN AGED 3-10 YEARS**
P. Drouillet-Pinard, Dietary Survey Unit, French Agency for food, Environmental and Occupational Health Safety (ANSES), Maisons-Alfort, France
- PO619 RISK OF CHILDHOOD MALNUTRITION AT 24 MONTHS RELATED TO SMALL FOR GESTATIONAL AGE AND LOW BIRTH WEIGHT IN RURAL WESTERN CHINA**
Y. Cao, Xi'an Jiaotong University College of Medicine, Xi'an, China
- PO620 IRON DEFICIENCY ANEMIA: A BURNING HEALTH ISSUE AMONG ADOLESCENCE IN DEVELOPING COUNTRIES**
S. Chauhan, Department of Community Medicine, Smt. NHL Municipal Medical College, Ahmedabad, Gujarat, India
- PO621 ASSESSMENT OF ENERGY EXPENDITURE AND IRON STATUS OF PREGNANT WOMEN IN URBAN AND RURAL COMMUNITIES IN NIGERIA**
I. Onimawo, Ambrose Alli University, Ekpoma, Nigeria
- PO622 EFFECT OF SUPPLEMENTATION OF IRON -FOLIC ACID RICH BISCUITS ON ANAEMIC ADOLESCENT GIRLS**
A. Thomas, Department of Home Science, C.M.S College, Kottayam, Kerala, India
- PO623 FREQUENCY OF NUT CONSUMPTION AND RISK OF MORTALITY IN THE PREDIMED STUDY**
M. Bullo, Human Nutrition Unit, Hospital Universitari De Sant Joan De Reus, Faculty Of Medicine And Health Sciences, IISPV (Institut D'Investigació Sanitària Pere Virgili), Universitat Rovira I Virgili, Reus, Spain
- PO624 THE PHASE ANGLE OF BIA-AN EVALUATION MARKER OF AN INTERVENTION IN THE DAILY MEALS OF GERIATRIC PATIENTS**
B. Sturtzel, University of Vienna, Department of Nutritional Science, Vienna Austria
- PO625 PREVALENCE AND SEVERITY OF MALNUTRITION AMONG INFANTS AND YOUNG CHILDREN IN AN HIV AND MALARIA PRONE RURAL SETTING, WESTERN KENYA**
S. Konyole, University of Nairobi, Institute of Tropical and Infectious Diseases (UNITID), University of Nairobi, Nairobi, Kenya
- PO626 EFFECTIVENESS OF AN EDUCATIONAL INTERVENTION ON NUTRITION AND PHYSICAL ACTIVITY FOR ADOLESCENTS**
E. Gonzalez-Jimenez, Departamento de Enfermería. Universidad de Granada. Granada, Spain
- PO627 POSITIVE ASSOCIATION BETWEEN ACTIVITY ENERGY EXPENDITURE AND APPENDICULAR SKELETAL MASS INDEX IN A GROUP OF BLACK SOUTH AFRICAN URBAN WOMEN**
H. S. Kruger, Centre of Excellence for Nutrition, North-West University, South Africa
- PO628 USING COMMUNICATION SKILLS TO IMPROVE MOTHER'S PRACTICE ON INFANTS AND YOUNG CHILD FEEDING AND NUTRITIONAL STATUS OF THE CHILDREN**
H. Cao, Science & Research Management Department, National Institute of Nutrition, Hanoi, Vietnam
- PO629 BIOPSYCHOLOGIC NUTRITIONAL SYSTEM- PHYSIC AND BREATHING TECHNIQUES**
C. Angel, Unicancer (Cancer patient attention department), Tomas Uribe Uribe Hospital, Tulua, Valle, Colombia
- PO630 GENDER DIFFERENCES BY SKIPPING BREAKFAST IN MOOD STATES AND NERVOUS SYSTEM OF SCHOOL CHILDREN**
M. Moriyama, Department of Home Economics, University of Aichi Gakusen, Okazaki, Aichi, Japan
- PO631 PREVALENCE OF ORTHOREXIA NERVOSA AMONG ADOLESCENTS AND YOUNG ADULTS**
A. Ercan, Baskent University, Health Science Faculty, Department of Nutrition And Dietetics, Ankara, Turkey
- PO632 STUDIES ON MILK FAT OF DIFFERENT SOCIOECONOMIC GROUPS OF BENGALI MOTHERS IN DIFFERENT STAGES OF LACTATION**
S. Roy, Department of Chemical Technology, University of Calcutta, India
- PO633 EATING BEHAVIOUR AND BODY IMAGE CONCERNS IN ADOLESCENTS**
E. Kösele, Baskent University, Health Science Faculty, Department of Nutrition And Dietetics, Ankara, Turkey
- PO634 EVALUATION OF APPETITE AND NUTRITIONAL STATUS OF PREGNANT ADOLESCENTS**
E. Kösele, Baskent University, Health Science Faculty, Department of Nutrition And Dietetics, Ankara, Turkey
- PO635 THE EFFECT OF DIFFERENT AMOUNTS OF FRUCTOSE CONSUMPTION ON SOME ANTHROPOMETRIC MEASUREMENTS AND BIOCHEMICAL PARAMETERS**
E. Kösele, Baskent University, Health Science Faculty, Department of Nutrition And Dietetics, Ankara, Turkey
- PO636 EXCLUSIVE BREASTFEEDING: PREGNANT WOMEN'S AWARENESS AND HEALTHCARE PROVIDERS' PRACTICES DURING ANTENATAL VISITS IN MOROGORO, TANZANIA**
H. Mbwana, Department of Food Science and Technology, Sokoine University of Agriculture, Morogoro Tanzania
- PO637 VIA* INSTANT COFFEE ENHANCES EXPLOSIVE BENCH PRESS PERFORMANCE**
M. C. Powers, Department of Human Performance and Sports Business, University of Mount Union, Alliance, Ohio, USA

- PO638 EFFECTS OF VIA* INSTANT COFFEE ON EXPLOSIVE SQUAT PERFORMANCE**
C. Goggin, Department of Human Performance and Sports Business, University of Mount Union, Alliance, Ohio, USA
- PO639 ACTION OF THE NAGOYA HEALTH COLLEGE HEALTH CARE IN THE ELDERLY PERSON**
N. Katayama, Nagoya Women's University, Japan
- PO640 THE EFFECT OF WEIGHT LOSS DIET AND OMEGA-3 FATTY ACIDS ON BODY WEIGHT AND SOME BIOCHEMICAL PARAMETERS IN PATIENTS WITH POLYCYSTIC OVARY SYNDROME**
G. Çadıran, Bayındır Hospital, Ankara, Turkey
- PO641 MATERNAL MICRONUTRIENT-RICH FOODS INTAKE AND BIRTH SIZE IN EGYPT**
E. Nayera, Biological Anthropology Dept., National Research Centre, Cairo, Egypt
- PO642 COMPLEMENTARY FEEDING PRACTICES IN SOUTHEAST ASIAN COUNTRIES**
M S V. Amarra, International Life Sciences Institute Southeast Asia Region, Singapore
- PO643 DIETARY DIVERSITY AS A CORRELATE OF UNDERNUTRITION AMONG SCHOOL AGE CHILDREN IN SOUTHWESTERN NIGERIA**
M. Olumakaiye, Department of Family, Nutrition and Consumer Sciences, Obafemi Awolowo University, Ile Ife, Nigeria
- PO644 EMPOWERING WOMEN COOPERATIVES TO RAISE MALNOURISHED CHILDREN LIVING STANDARDS IN HUYE DISTRICT/RWANDA**
G. Kamaliza, Department of maternal and child nutrition, Rwanda Village Concept Project (RVCP), Rwanda
- PO645 INFANT AND YOUNG CHILD FEEDING PRACTICES AND CHILD UNDERNUTRITION IN RURAL, CHINA**
Y Y. Wang, ILSI Focal Point In China, Beijing, China
- PO646 PREVALENCE OF VITAMIN A DEFICIENCY AMONG INFANTS IN WESTERN KENYA**
F. Grant, International Potato Centre, Nairobi, Kenya
- PO647 URINARY EXCRETION LEVELS OF WATER-SOLUBLE VITAMINS IN PREGNANT AND LACTATING WOMEN IN JAPAN**
T. Fukuwatari, Department of Nutrition, School of Human Cultures, The University of Shiga Prefecture, Hikone, Japan
- PO648 SLEEP QUALITY IN THE SURVIVAL OF ELDERLY TAIWANESE: ROLES FOR DIETARY DIVERSITY AND PYRIDOXINE IN MEN AND WOMEN**
Y C. Huang, Graduate Institute of Life Sciences, National Defense Medical Center, Taipei, Taiwan
- PO649 UNDER-NUTRITION LOWERS LEARNING AND MEMORY ABILITY AMONG CHILDREN AGE 5-6 YEARS OLD IN BOGOR-INDONESIA**
E. Palupi, Department of Organic Food Quality and Food Culture, University of Kassel, Germany
- PO650 LEARNERS' PERCEPTIONS, ATTITUDES AND BEHAVIOUR TOWARDS HEALTHY EATING-THE INFLUENCE OF A NUTRITIONALLY-REGULATED TUCK SHOP**
N. Koen, Division of Human Nutrition, Faculty of Medicine and Health Sciences, Stellenbosch University, Tygerberg, Western Cape, South Africa
- PO651 OVERWEIGHT, OBESITY, AND EARLY-LIFE FEEDING PRACTICES AMONG UNDERFIVE CHILDREN IN LEBANON**
N. Hwalla, Department of Nutrition and Food Sciences, Faculty of Agricultural and Food Sciences, American University of Beirut, Beirut, Lebanon
- PO652 DEPRESSION AND PSYCHO-PHARMACEUTICAL USE ASSOCIATED WITH MALNUTRITION IN INSTITUTIONALIZED ELDERLY CITIZENS IN PRAGUE, CZECH REPUBLIC**
J. Rambouskova, Third Faculty of Medicine, Charles University, Prague, Czech Republic
- PO653 DIETARY HABITS AND CARDIOVASCULAR DISEASES IN ADULTS AND ELDERLY IN CROATIA**
D. Kenjeric, Department of Food and Nutrition Research, Faculty of Food Technology Osijek, University of Osijek, Osijek, Croatia
- PO654 QUALITY OF NUTRITION IN ELDERLY NURSING HOME RESIDENTS**
D. Kenjeric, Department of Food and Nutrition Research, Faculty of Food Technology Osijek, University of Osijek, Osijek, Croatia
- PO655 MILK CONSUMPTION OF UNIVERSITY STUDENTS**
E D. Ciracioglu, Nutrition and Dietetics, Ankara University, Ankara, Turkey
- PO656 SOCIODEMOGRAPHIC DETERMINANTS OF FRUITS AND VEGETABLES CONSUMPTION AMONG ELDERLY IN ILA-ORANGUN, NIGERIA**
M. Ogunkunle, Department of Human Nutrition, University of Ibadan, Ibadan, Oyo state, Nigeria
- PO657 PUERPERAL FACTORS THAT MAY INFLUENCE IN THE ESTABLISHMENT OF ORAL REFLECTIONS OF NEWBORN TO START OF BREASTFEEDING SUCCESSFULLY**
C. Freiberg, Universidade Guarulhos, São Paulo, Brazil
- PO658 MATERNAL DIETARY PATTERNS ARE ASSOCIATED WITH OXIDATIVE STRESS IN PREGNANCY**
S L. Loy, Nutrition Programme, School of Health Sciences, Universiti Sains Malaysia, Malaysia
- PO659 MACRONUTRIENT INTAKE AND INADEQUACIES IN COMMUNITY-DWELLING OLDER ADULTS, A SYSTEMATIC REVIEW**
S. Ter Borg, Medical Nutrition, Danone Research, Centre of Specialised Nutrition, Wageningen, The Netherlands
- PO660 LABELING OF COMMERCIALY PROCESSED COMPLEMENTARY FOODS: A MARKET SURVEY ON CODE COMPLIANCE IN ACCRA, GHANA**
R. Aryeetey, University of Ghana, School of Public Health, Ghana
- PO661 DEVELOPMENT OF DIETARY PATTERNS DURING THE FIRST THREE YEARS OF LIFE**
L B B. Andersen, Department of Nutrition, Exercise And Sports, University of Copenhagen, Copenhagen, Denmark
- PO662 EFFECTS OF PROTEIN INTAKE ON CARDIOMETABOLIC HEALTH IN CHILDREN: A SYSTEMATIC REVIEW**
T. Voortman, Department of Epidemiology; Erasmus MC; University Medical Center; Rotterdam; The Netherlands
- PO663 RISK OF UNDERNUTRITION AMONG ELDERLY SENEGALESE MEN AND WOMEN IS ASSOCIATED WITH DISABILITY IN FOOD PREPARATION ACTIVITY**
O. Diop-Sow, Laboratoire de Nutrition, Département de Biologie Animale, Faculté des Sciences et Techniques, Université Cheikh Anta Diop de Dakar, Senegal
- PO664 IRON AND FOLATE STATUS AND THEIR DETERMINANTS IN A NATIONALLY REPRESENTATIVE SAMPLE OF BELGIAN PREGNANT WOMEN**
S. Vandevijvere, Department of Public Health and Surveillance, Scientific Institute of Public Health, Belgium
- PO665 INSULIN RESISTANCE AND VITAMIN D DEFICIENCY IN CHILEAN OLDER PEOPLE**
B. Angel, Institute of Nutrition And Food Technology (INTA), University of Chile, Santiago, Chile
- PO666 EFFECT OF DHA SUPPLEMENTATION DURING PREGNANCY AND LACTATION ON INFLAMMATORY SIGNALING IN PREGNANT WOMEN AND THEIR NEONATES**
N. Kajarabille, Institute of Nutrition and Food Technology Jose Mataix, University of Granada, Spain

- PO667 NUTRIPLUS PROGRAM IMPROVE MATERNAL AND CHILD NUTRITIONAL STATUS AND NUTRITIONAL KNOWLEDGE IN MULTI-CULTURAL FAMILY**
Y J. Oh, Nutrition And Health Service Team, Korea Health Promotion Foundation, 14 Ga-gil, 76 gukhoedae-ro, yeongdeungpo-gu, Seoul 150-868, Korea
- PO668 THE HEALTHY FRESH FRUITS PROGRAM: EFFECT OF FRUITS AND VEGETABLES INTAKE AMONG LOW-INCOME ELEMENTARY SCHOOL STUDENTS**
Y J. Oh, Nutrition and Health Service Team, Dept of Health Promotion, Korea Health Promotion Foundation, Seoul, Korea
- PO669 DEVELOPMENT AND ACCEPTABILITY OF LOCALLY DEVELOPED READY-TO-USE COMPLEMENTARY-FOOD-SUPPLEMENTS (RUCFS) IN URBAN SLUM SETTINGS OF DHAKA, BANGLADESH**
T. Ahmed, ICDDR,B, Dhaka, Bangladesh
- PO670 FRUIT PREFERENCES AND INTAKE AMONG PORTUGUESE SCHOOLCHILDREN**
B. Franchini, Faculdade de Ciências da Nutrição e Alimentação, Universidade do Porto, Porto, Portugal
- PO671 REGIONAL AND SEX VARIATION IN THE INTAKE OF DIFFERENT FRUIT TYPES AMONG PORTUGUESE SCHOOLCHILDREN**
B. Franchini, Faculdade de Ciências da Nutrição e Alimentação, Universidade do Porto, Rua Dr. Roberto Frias, Porto, Portugal
- PO672 DIETARY INTAKE OF LACTATING WOMEN IN Umuahia, URBAN, NIGERIA**
P. Ukegbu, Department of Human Nutrition And Dietetics, Michael Okpara University of Agriculture, Umudike, Abia State, Nigeria
- PO673 MEAL PLANNINGS OF HIGH SCHOOL STUDENTS IN TURKEY**
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- PO674 MILK CONSUMPTION PATTERNS IN RELATION TO TOTAL DIETARY INTAKE: THE CASE OF MALAYSIAN URBAN CHILDREN AGED 1-10 YEARS**
G L. Khor, International Medical University, Kuala Lumpur, Malaysia
- PO675 ASSESSMENT OF NUTRITIONAL CONTENT OF COMMERCIAL BABY FOODS IN THE UK**
A. Garcia, Human Nutrition, School of Medicine, College of Medical, Veterinary & Life Sciences, University of Glasgow, Glasgow, UK
- PO676 DIETARY INTAKE AND NUTRIENT SCORES OF FREELIVING ELDERLY IN UMLAZI TOWNSHIP (KWAZULU NATAL)**
X. Mkhize, Mangosuthu University of Technology, South Africa
- PO677 BODY FAT MASS DISTRIBUTION AS A DETERMINANT OF RESTING METABOLIC RATE VARIATION IN OLDER ADULTS**
M. Ruiz, Nutrition and Public Health Department, University of Bio-Bio, Chillan, Chile
- PO678 EVALUATION OF THE NUTRITIONAL STATE IN CHILDREN OF 10 TO 14 MONTHS OF TWO MUNICIPALITIES OF CITY HAVANA**
A. Dominguez, National Institute of Nutrition And Hygiene of The Foods, Havana, Cuba
- PO679 ANALYSIS OF THE NUTRIENT COMPOSITION OF COMPLEMENTARY FOODS PREPARED FROM LOCAL FOODS IN THREE RURAL COMMUNITIES IN EAST AFRICA**
S. Boltana, Health and Nutrition Department, World Vision International East Africa Region, Ethiopia
- PO680 LIGHT EXERCISE AFTER HIGH-FAT MEAL SUPPRESSES POSTPRANDIAL SERUM TRIGLYCERIDE IN HUMANS**
W. Aoi, Laboratory of Health Science, Graduate School of Life And Environmental Sciences, Kyoto Prefectural University, Japan
- PO681 RANDOMIZED DOUBLE-BLIND CROSS-OVER STUDY OF A NUTRITIONAL SUPPLEMENT SPECIFIC FOR PATIENTS WITH NEURODEGENERATIVE DISEASES OVER INFLAMMATORY AND CARDIOVASCULAR RISK BIOMARKERS**
C E. Garcia-Rodriguez, Department of Biochemistry And Molecular Biology II, Institute of Nutrition And Food Technology, Spain
- PO682 CHANGES IN THE VALUES IN THE PHYSIOLOGICAL INDEX BY THE HYDRATION IN THE MALE JUNIOR HIGH SCHOOL SOFT TENNIS PLAYERS**
A. Kunimoto, Department of Foods and Human Nutrition, Notre Dame Seishin University, Japan
- PO683 DEVELOPING ELDERLY ANTHROPOMETRIC CHAIR (BODY MASS INDEX METER) BASED ON ARM SPAN, KNEE HEIGHT, AND SITTING HEIGHT**
F. Hutasuhut, Public Health Nutrition Dept., Faculty of Public Health, University of Indonesia, Depok, Indonesia
- PO684 GLUTATHIONE INTAKE IMPROVES MUSCLE FATIGUE INDUCED BY EXERCISE ASSOCIATED WITH INCREASING PGC-1 α IN MICE**
M. Takami, Laboratory of Health Science, Graduate School of Life and Environmental Sciences, Kyoto Prefectural University, Japan
- PO685 IDENTIFYING OBESOGENIC DIETARY FACTORS AMONG EGYPTIAN OBESE ADOLESCENTS**
M. Zaki, National Research Centre, Biological Anthropology Department, Medical Research Division, National Research Centre, Egypt
- PO686 DIET QUALITY SCORES AND COGNITIVE FUNCTION IN OLDER ADULTS**
Y. Yang, Department of Food and Nutrition, Dongduk Women's University, Seoul, Korea
- PO687 ADHERENCE TO A NEW NORDIC DIET IN PREGNANCY IS ASSOCIATED WITH REDUCED RISK OF EXCESSIVE GESTATIONAL WEIGHT GAIN**
E R. Hillesund, Department of Public Health, Sports and Nutrition, University of Agder, Kristiansand, Norway
- PO688 BREAST MILK ADIPONECTIN IS ASSOCIATED WITH MATERNAL DIETARY INTAKE AND INFANT GROWTH**
H J. Jan Mohamed, Nutrition Program, Universiti Sains Malaysia, Kubang Kerian, Kelantan, Malaysia
- PO689 RELATIONSHIP BETWEEN DIETARY ENERGY DENSITY AND 5-YEAR AGING IN HEALTHY FREE-LIVING JAPANESE ELDERLY**
M. Aki, Department of Health and Nutrition, University of Niigata Prefecture, Niigata, Japan
- PO690 MEDITERRANEAN DIETARY PATTERNS IMPROVE MINERAL INTAKE AND BIOAVAILABILITY IN ADOLESCENTS**
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- PO691 COMBATING CHILD MALNUTRITION IN SRI LANKA: USE OF EVIDENCE-BASED NUTRITIONAL INTERVENTIONS**
U. Senarath, Faculty of Medicine, University of Colombo, Sri Lanka
- PO692 DETERMINANTS OF STUNTING AMONG CHILDREN AGED 6-23 MONTHS IN SRI LANKA**
U. Senarath, Faculty of Medicine, University of Colombo, Sri Lanka
- PO693 EFFECT OF AN EXERCISE PROGRAMME AND A POST-EXERCISE PROTEIN SUPPLEMENTATION ON INFLAMMATORY BIOMARKERS: PRELIMINARY RESULTS**
A. Farran, Department of Nutrition and Food Science, Universitat de Barcelona, Barcelona, Spain
- PO694 SURVEY OF DIETARY PATTERN AMONG ADOLESCENT GIRLS OF AHMEDABAD CITY, GUJARAT, INDIA**
A. Dalal, Department of Community Medicine, Smt. NHL Municipal Medical College, Ahmedabad, Gujarat, India
- PO695 DUTCH INFANTS AT RISK OF EXCESSIVE VITAMIN D INTAKE THROUGH COMBINED INTAKE FROM (FORTIFIED) FOODS, INFANT FORMULA, AND DIETARY SUPPLEMENTS**
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- PO696 FOOD HABITS AND DIETARY PATTERNS OF PREGNANT WOMEN IN URBAN AND RURAL AREAS OF DEYANG REGION, SICHUAN PROVINCE OF CHINA**
H. Gao, Institute of Social Sciences in Agriculture, Gender and Nutrition (430b), University of Hohenheim
- PO697 PROTECTIVE EFFECT OF DAIRY FAT ON BRAIN DHA LEVELS OF YOUNG RATS BORN FROM ALA-DEFICIENT OR ALA-RICH MOTHERS**
B. Delplanque, NMPA, CNPS, Universite-Paris-Sud, Orsay, France
- PO698 NUTRITIONAL EVALUATION AND RECOMMENDATIONS IN A PRIMARY SCHOOL OF VISEU**
M J. Lima, CI&DETS Department of Food Science, IPV-Escola Superior Agraria de Viseu, Viseu, Portugal
- PO699 NUTRITIONAL ASSESSMENT OF SOME MENUS SERVED AT THE AGRARIAN SCHOOL OF VISEU- ESAV**
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- PO700 ENERGY INTAKE AND MACRONUTRIENT DISTRIBUTION OF A GROUP OF ADULT WOMEN IN VALLADOLID (SPAIN)**
M J. Cao, Instituto Endocrinologia Nutricion Ienva, Universidad Valladolid, España
- PO702 MEDIA INFLUENCE OF TELEVISION IN NUTRITIONAL STATUS OF PRESCHOOL**
E L. Bagatini Saud Ferro, Curso de nutrição, da Universidade de Franca, Franca, São Paulo, Brasil
- PO703 A QUALITATIVE STUDY EXPLORING PARENTS' VIEWS AND PERCEPTIONS OF OVERWEIGHT AND OBESITY IN PRE-SCHOOL CHILDREN IN SCOTLAND**
F. Douglas, Public Health Nutrition Research Group, Rowett Institute of Health And Nutrition, University of Aberdeen, Aberdeen, Scotland
- PO704 SOCIOECONOMIC INEQUALITY IN DIETARY DIVERSITY SCORE AMONG SCHOOL CHILDREN IN A REGION OF SOUTHWESTERN, NIGERIA**
M. Olumakaiye, Department of Family, Nutrition and Consumer Sciences, Obafemi Awolowo University, Ile Ife, Nigeria
- PO705 NUTRITIONAL STATUS OF 3-9 YEAR OLD CHILDREN IN THE ISLAND OF BORNHOLM: BASELINE ANTHROPOMETRIC DATA FROM PROJECT SOL-BORNHOLM**
T. Buch-Andersen, Research Group For Meal Science And Public Health Nutrition, Department of Planning, Aalborg University, Copenhagen SV, Denmark
- PO706 SEAFOOD INTAKE AND POSTPARTUM DEPRESSION**
M K. Malde, National Institute of Nutrition and Seafood Research (NIFES), Bergen, Norway
- PO707 DETERMINANTS OF IRON DEFICIENCY ANAEMIA AMONG IN-SCHOOL ADOLESCENT IN FEDERAL CAPITAL TERRITORY (FCT)-ABUJA**
K. Kalu, Department of Human Nutrition, University of Ibadan, Ibadan, Oyo State, Nigeria
- PO708 PROBING THE HEMOGRAM: HEMATOLOGICAL MEASURES AND INDICES ACROSS A SAMPLE OF GUATEMALAN HIGHLAND PRESCHOOL CHILDREN ATTENDING THREE GOVERNMENT-SPONSORED DAYCARE CENTERS**
M J. Soto-Mendez, Center For Studies of Sensory Impairment, Aging And Metabolism -CESSIAM-, Guatemala
- PO709 NUTRITION AND HEALTH QUALITY IN ELDERLY LIVING IN ANKARA, TURKEY**
E. Aksoydan, Baskent University, Department of Nutrition and Dietetics, Ankara, Turkey
- PO710 NUTRITIONAL GUIDANCE: PREVENTING MALNUTRITION WITH FOOD INSTEAD OF SUPPLEMENTS FOR ELDERLY IN NURSING HOMES**
V. Guttormsen, Department of Public Health, Sport and Nutrition, University of Agder, Norway
- PO711 ANTHROPOMETRY, BODY COMPOSITION AND FUNCTIONALITY OF NUTRITIONALLY AT RISK INSTITUTIONALIZED ELDERLY**
A. Chandrasekara, Department of Applied Nutrition, Wayamba University of Sri Lanka, Makandura, Gonawila, Sri Lanka
- PO712 EATING HABITS AND HEALTH STATUS OF YOUNG AUSTRIAN MEN AGED 17 TO 20 YEARS IN CONTEXT TO THEIR LIFESTYLES**
G. Leitner, University of Vienna, Department of Nutritional Sciences, Vienna, Austria
- PO713 KNOWLEDGE AND PREVALENCE RISKS OF MATERNAL AND CHILD HEALTH FACTORS AMONGST WOMEN ATTENDING RANGO HEALTH CENTER**
P. Ndayishimiye, Rwanda Pharmaceutical Student Association(RPAS/AEPHAR), Rwanda
- PO714 VALIDATION OF CALF CIRCUMFERENCE AS A PROXY FOR BMI IN THE SHORT-FORM MINI NUTRITIONAL ASSESSMENT IN CHILEAN OLDER PEOPLE**
L. Lera, Unit of Nutrition, Public Health and Healthy Aging, Institute of Nutrition and Food Technology, University of Chile, Santiago, Chile
- PO715 SODIUM CONTENT IN BABYFOODS USED ON INFANT FEEDING DURING THE FIRST YEAR OF LIFE**
R. Moreira, Faculty of Nutrition And Food Sciences, University of Porto, Porto, Portugal
- PO716 SERUM VITAMIN CONCENTRATIONS AND DIETARY SUPPLEMENT USE AMONG PREGNANT U.S. WOMEN: DATA FROM THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY, 2003-2006**
E. O'Sullivan, Division of Nutritional Sciences, Cornell University, Ithaca, New York, USA
- PO717 IMPROVING COMPLEMENTARY FEEDING PRACTICES THROUGH THE ESSENTIAL NUTRITION ACTIONS (ENA) FRAMEWORK IN SOUTHERN ETHIOPIA**
A. Guyon, John Snow Inc.(JSI), Arlington, USA
- PO718 FOOD INTAKE IN CUBAN CHILDREN ACCORDING TO BODY MASS INDEX**
A. Cabrera, Department of Community Nutrition, Institute of Nutrition and Food Hygiene, Havana, Cuba
- PO719 MEASURING OF RESTING ENERGY EXPENDITURE IN YOUNG JAPANESE CHILDREN**
K. Omori, Faculty of Education, Art and Science, Yamagata University, Yamagata-city, Yamagata prefecture, Japan
- PO720 METABOLIC SYNDROME PREVALENCE IN CHILEAN CHILDREN ACCORDING TO THREE DIFFERENT CRITERIA AND ITS AGREEMENT WITH INSULIN RESISTANCE**
S. Barja, PDivision of Pediatrics, Faculty of Medicine, Pontificia Universidad Catolica de Chile, Santiago de Chile, Chile
- PO721 EXPLORING THE ASSOCIATION BETWEEN OBESITY AND DEMENTIA**
C. Albala, INTA, Universidad De Chile, Chile
- PO722 FACTORS ASSOCIATED WITH CONSUMPTION OF NUTRITIONAL SUPPLEMENTS FOR PRACTITIONERS OF PHYSICAL EXERCISE IN SÃO LUIS-MA**
H J F. Veloso, UniCEUMA, Sao Louis, Brazil
- PO723 A SYSTEMATIC REVIEW AND META-ANALYSIS OF DIETARY INTERVENTION DURING PREGNANCY ON MATERNAL HYPERTENSIVE DISORDERS AND PRETERM DELIVERY**
E. Gresham, Research Centre For Gender Health And Ageing, University of Newcastle, Newcastle, New South Wales, Australia

- PO724 PRELACTEAL FEEDING PRACTICES IN VIETNAM: PROBLEMS AND DETERMINANT FACTORS**
P H. Nguyen, The Poverty, Health, and Nutrition Division, International Food Policy Research Institute, Hanoi, Vietnam
- PO725 THE RELATIONSHIP BETWEEN MATERNAL PRECONCEPTIONAL ANTHROPOMETRIC MEASUREMENTS AND INFANT BIRTH WEIGHT IN VIETNAM**
P H. Nguyen, International Food Policy Research Institute, Hanoi, Vietnam
- PO726 SELENIUM INTAKE AND STATUS OF SUBJECTS LIVING IN WELFARE FACILITY FOR THE ELDERLY**
H. Kanamitsu, Faculty of Food Culture, Kurashiki Sakuyo University, Okayama, Japan
- PO727 IMPACT OF PRE-PREGNANCY PARENTAL OVERWEIGHT AND OBESITY ON OFFSPRING OBESITY: SYSTEMATIC ANALYSIS AND META ANALYSIS**
Z. Nurzalinda, School of Population Health, The University of Queensland, Brisbane, Australia
- PO728 CHILD FEEDING PRACTICES AMONG CAREGIVERS OF CHILDREN AGED 12-23 MONTHS OLD IN URBAN SETTING CENTRAL JAKARTA**
D. Fatmaningrum, South East Asian Ministry of Education Organization Regional Centre For Food And Nutrition, Jakarta, Indonesia
- PO729 DOES THE PROVISION OF NORDIC SCHOOL MEALS INFLUENCE GROWTH AND BODY COMPOSITION OF 8-11 YEAR OLD CHILDREN?**
S. Dalskov, Department of Nutrition, Exercise And Sports, University of Copenhagen, Denmark
- PO730 COMPLEMENTARY FEEDING PRACTICES AMONG INFANTS AGED 9 - 11 MONTHS OLD IN URBAN SETTING JAKARTA**
S. Septriana, Department of Nutrition Science, Faculty On Health Science, Respati University of Yogyakarta, Indonesia
- PO731 ANALYSIS OF FEEDING BEHAVIOR OF CHILDREN UNDER 2 YEARS OLD IN POVERTY AREAS OF CHINA IN 2009**
L. Zhao, Institute of Nutrition And Food Safety, Chinese Center For Disease Control And Prevention, Beijing, China
- PO732 THE EFFECTS ON CHILDREN'S GROWTH, HEMOGLOBIN CONCENTRATION, AND ANEMIA IN 3 NUTRITION INTERVENTIONS IN POOR RURAL, CHINA**
D. Yu, Institute of Nutrition And Food Safety, Chinese Center For Disease Control And Prevention, Beijing, China
- PO733 MATERNAL ZINC STATUS IS ASSOCIATED WITH BREAST MILK ZINC CONCENTRATION AND ZINC STATUS OF 4-6 MONTH OLD INFANTS**
O. Dumrongwongsiri, Department of Pediatrics, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
- PO734 NUTRITIONAL STATUS OF CHILDREN AND THEIR MOTHERS, AND ITS DETERMINANTS IN URBAN CAPITAL AND RURAL HIGHLAND IN PAPUA NEW GUINEA**
M. Miyoshi, National Institute of Health And Nutrition, Japan
- PO735 FACTORS ASSOCIATED WITH BREASTFEEDING PRACTICES AMONG MOTHERS IN CENTRAL COAST OF VIETNAM**
N. Le, Faculty of Public Health, University of Medicine and Pharmacy at Ho Chi Minh City, Ho Chi Minh City, Vietnam
- PO736 CLINICALLY FEASIBLE APPROACH TO EVALUATE THE QUALITY OF DIETARY CARBOHYDRATES IN SMALL CHILDREN**
H. R  yti  , Functional Foods Forum, University of Turku, Finland
- PO737 THE SCHOOL FOOD ENVIRONMENT IN ULAANBAATAR, MONGOLIA**
N. Chimedtseren, National Center of Public Health, Ulaanbaatar, Mongolia
- PO738 CHILDREN'S STRESS INFLUENCES THEIR DIET AND EATING BEHAVIOUR**
N. Michels, Department of Public Health, Ghent University, Ghent, Belgium
- PO739 GLUTEN INTAKE IN 4- TO 19-YEAR-OLD DANISH CHILDREN AND ADOLESCENTS BASED ON A NATIONAL SURVEY**
C. Hoppe, Division of Nutrition, National Food Institute, Technical University of Denmark, Denmark
- PO740 SCHOOL MEALS BASED ON THE NEW NORDIC DIET IMPROVE CARDIOVASCULAR RISK MARKERS IN DANISH 8-11-YEAR-OLD CHILDREN-THE OPUS STUDY**
C T. Damsgaard, Department of Nutrition, Exercise and Sports, Faculty of Science, University of Copenhagen, Frederiksberg, Denmark
- PO741 EFFECTS OF DOCOSAHEXAENOIC ACID SUPPLEMENTATION DURING PREGNANCY IN MATERNAL AND FETAL BRAIN COMPOSITION**
A. Gazquez, Department of Physiology, University of Murcia, Murcia, Spain
- PO742 INFLUENCE OF MODERATE-VIGOROUS PHYSICAL ACTIVITY AND EXTRA VIRGIN OLIVE OIL IN CHILDREN CATALASE ACTIVITY**
M J. Oliveras Lopez, Department of Molecular Biology and Biochemical Engineering, University of Pablo de Olavide of Seville, Seville, Spain
- PO743 SNACKING HABITS AMONG MENOPAUSAL WOMEN**
J. Setorglo, University of Cape Coast, Ghana
- PO744 THE EFFECT OF NORDIC SCHOOL MEALS ON ILLNESS, ASTHMA, ALLERGIES, AND SCHOOL ATTENDANCE IN DANISH CHILDREN-THE OPUS STUDY**
R P. Laursen, Department of Nutrition, Exercise And Sports, Faculty of Science, University of Copenhagen, Denmark
- PO745 QUANTITIES AND TYPES OF FOODS REPORTED FOR COMPLEMENTARY FEEDING IN A PERI-URBAN AREA OF SOUTH AFRICA**
M. Rothman, Centre of Excellence for Nutrition, North-West University, Potchefstroom, North-West, South Africa
- PO746 RELATIONSHIP BETWEEN MATERNAL NUTRITIONAL STATUS AND PERCEIVED INSUFFICIENT MILK IN KLATEN DISTRICT, CENTRAL JAVA, INDONESIA**
Y. Esther, Ministry of Health Republic of Indonesia, Indonesia
- PO747 NUTRIENT INTAKES AND PREGNANCY OUTCOMES AMONG VEGETARIAN MOTHER IN JAKARTA, INDONESIA**
S. Fikawati, Department of Nutrition, Faculty of Public Health, University of Indonesia, Depok, Indonesia
- PO748 BLOOD FOLATE, VITAMIN B6, VITAMIN B12, AND CREATININE AMONG THAI ELDERLY**
S. Kaewnimee, Department of Pediatrics, Ramathibodi Hospital, Thailand
- PO749 NUTRITIONAL STATUS AND ANTHROPOLOGICAL MEASUREMENTS IN ELDERLY PEOPLE OVER 100 YEARS OF AGE.THE CUBAN 'CENTENARIO' STUDY**
C. Prado, Departament of Biology, Fac.Sciences, Universidad Autonoma de Madrid, Madrid, Spain
- PO750 NON-INSTITUTIONALIZED NONAGENARIANS HEALTH-RELATED QUALITY OF LIFE AND NUTRITIONAL STATUS: IS THERE A LINK BETWEEN THEM?**
S. Jimenez-Redondo, Department of Nutrition, Pharmacy Faculty, Complutense University, Madrid, Spain
- PO751 PREGNANCY WEIGHT GAIN AND THE DETERMINANTS OF POSTPARTUM WEIGHT CHANGE AMONG GHANAIAI WOMEN**
J. Ankrah, Department of Nutrition and Food Science, University of Ghana, Legon, Ghana
- PO752 FOOD FOR PRESCHOOLERS**
S. Helland, Departement of Public health, Sport and Nutrition, University of Agder, Kristiansand, Norway

- PO753 THE CONTRIBUTION OF NUTRITIONAL SUPPLEMENTS TO MICRONUTRIENT INTAKES IN IRISH PRE-SCHOOL CHILDREN AGED 1-4 YEARS**
F. Browne, School of Food and Nutritional Sciences, University College Cork, Cork, Republic of Ireland
- PO754 FREQUENCY AND DETERMINANTS OF BREASTFEEDING IN A NATIONWIDE SAMPLE IN GERMANY**
L. Libuda, Research Institute of Child Nutrition Dortmund, University of Bonn, Germany
- PO755 UNDERWEIGHT, OBESITY AND DISABILITY IN ELDERLY COMMUNITY DWELLERS IN FRANCE: THE FRENCH NATIONAL DISABILITY AND HEALTH SURVEY, 2008**
M. Vernay, Nutritional Surveillance And Epidemiology Unit (USEN), Institut De Veille Sanitaire And Universite Paris 13, France
- PO756 DIET AND NUTRITIONAL STATUS OF BREASTFEEDING WOMEN IN POLAND**
H. Mojska, Department of Food and Food Supplements, National Food and Nutrition Institute, Warsaw, Poland
- PO757 ESTIMATION OF INTAKES AND FOOD SOURCES OF SALT IN IRISH PRE-SCHOOL CHILDREN AGED 1-4 YEARS**
M. Giltinan, School of Food and Nutritional Sciences, University College Cork, Cork, Republic of Ireland
- PO758 ANEMIA AMONG FEMALE ADOLESCENT IN RELATIONSHIP WITH MALARIA, FOOD CONSUMPTION PATTERN AND SOCIO-ECONOMIC STATUS (SES) IN MAMUJU DISTRICT, INDONESIA**
A. Mursaha, Center For Food, Nutrition And Health of Hasanuddin University, Indonesia
- PO759 THE CONTRIBUTION OF FORTIFIED FOODS TO MICRONUTRIENT INTAKES IN IRISH PRE-SCHOOL CHILDREN AGED 1 TO 4 YEARS**
A. Hennessy, School of Food and Nutritional Sciences, University College Cork, Cork, Republic of Ireland
- PO760 GLUTEN FREE DIET HAS LOW IMPACT IN ANTIGLIADIN ANTIBODY LEVELS IN BREAST MILK OF NURSING MOTHERS**
M. Roca, Pediatric Gastrohepatology Investigation Laboratorium, Hospital Universitario Y Politecnico La Fe, Valencia, Spain
- PO761 PREVENTING ACUTE MALNUTRITION AMONG CHILDREN AGED 6 TO 23 MONTHS IN NIGER: EFFECT OF SUPPLEMENTATION AND CASH TRANSFER**
C. Langendorf, Epicentre, Paris, France
- PO762 THE PROPOSAL OF A FOOD RATION FOR SOLDIERS SERVING IN POLISH SPECIAL OPERATION FORCES**
P. Kler, Military Research & Deployment Center For Food Services, Warsaw, Poland
- PO763 INFLUENCE OF GESTATIONAL DIABETES ON CHILDREN'S CIRCADIAN RHYTHMS AND THEIR ASSOCIATION WITH BOTH FETAL ADIPOSITY AND N-3 FATTY ACIDS**
M. Zornoza-Moreno, Pediatric Service, Virgen de la Arrixaca University Hospital, Murcia, Spain
- PO764 COMPARATIVE ASSESSMENT OF CHILDCARE PRACTICES, NUTRITIONAL AND DEVELOPMENTAL STATUS OF UNDER-FIVE ORPHANS AND NON-ORPHANS IN IBADAN SOUTH-WEST, NIGERIA**
G. Fadupin, Department of Human Nutrition, University of Ibadan, Ibadan, Oyo state, Nigeria
- PO765 INFLUENCE OF GLUTEN-FREE AND NORMAL DIET ON GLUTEN CONTENT IN BREAST MILK**
M. Mena, Servicio de Proteomica, Centro Nacional de Biotecnologia, Consejo Superior de Investigaciones Cientificas, Madrid, Spain
- PO766 COMPLEMENTARY FEEDING PRACTICES OF A PERI-URBAN SOUTH AFRICAN COMMUNITY: A SNAP SURVEY USING THE WHO-2010 QUESTIONNAIRE**
N M. Covic, Centre of Excellence For Nutrition, North-West University, Potchefstroom, South Africa
- PO767 NUTRITIONAL STATUS ASSOCIATION WITH MOBILITY OF NON-INSTITUTIONALIZED ELDERLY PEOPLE**
S. Jimenez-Redondo, Department of Nutrition, Pharmacy Faculty, Complutense University, Madrid, Spain
- PO768 PROPOSAL FOR INTERNATIONAL NUTRIENT GUIDELINES FOR MEALS FOR ELDERLY IN INSTITUTIONS**
M. Dötsch-Klerk, Unilever R&D Vlaardingen, The Netherlands
- PO769 EFFECT OF TIMED AND TARGETED COUNSELING (TTC) IN CHANGING INFANT AND YOUNG CHILD FEEDING PRACTICES IN SOUTHERN ETHIOPIA**
K. Reider, World Vision US, Washington, DC, USA
- PO770 DIETARY INTAKE OF ANTIOXIDANTS AND INADEQUACIES IN DIET IN PREGNANT WOMEN IN SPAIN: INMA-ENVIRONMENT AND CHILDHOOD COHORT**
D. Romaguera, Center for Research in Environmental Epidemiology (CREAL), Barcelona, Spain
- PO771 SCHOOL MEALS BASED ON NEW NORDIC DIET IMPROVE READING PERFORMANCE IN DANISH 4TH GRADE CHILDREN -THE OPUS SCHOOL MEAL STUDY**
C B. Dyssegaard, Centre for Strategic Research in Education and Competence, Aarhus University, Copenhagen, Denmark
- PO772 INFANT AND YOUNG CHILD FEEDING PRACTICES IN VULNERABLE COMMUNITIES IN THE BREEDER VALLEY, WESTERN CAPE PROVINCE, SOUTH AFRICA**
L. Du Plessis, Division of Human Nutrition, Faculty of Medicine And Health Sciences, Stellenbosch University, Cape Town, Western Cape, South Africa
- PO773 FLUID CONSUMPTION OF YOUNG ELITE BASKETBALL PLAYERS**
M. Vukasinovic-Vesic, Sports Medicine Association of Serbia, Belgrade, Serbia
- PO774 A CRITICAL ANALYSIS OF THE LABELS OF PROCESSED COMPLEMENTARY FOODS IN SOUTH AFRICA AGAINST INTERNATIONAL MARKETING GUIDANCE**
L. Sweet, Centre of Excellence for Nutrition, North-West University, South Africa
- PO775 OXIDATIVE STRESS DURING PREGNANCY AND LOW BIRTH WEIGHT**
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- PO776 MALNUTRITION AMONG ELDERLY: A STUDY IN A SELECTED RURAL AREA IN BANGLADESH**
M D H. Ali, Transparency International Bangladesh, Dhaka, Bangladesh
- PO778 NUTRITION AND DIET IN CUBAN ELDERLY WITH ALZHEIMER'S DISEASE OR MILD COGNITIVE IMPAIRMENT**
Y. Lanyau-Dominguez, Department Biochemistry and Physiology, Nutrition Institute, Cuba
- PO779 NUTRITION ASSISTANCE PROGRAM PARTICIPATION INFLUENCES HOUSEHOLD FOOD SUPPLIES AND CHILDREN'S DIETARY INTAKE AMONG MEXICAN-ORIGIN FAMILIES IN TEXAS BORDER COLONIAS**
J. Sharkey, Program For Research In Nutrition And Health Disparities, School of Rural Public Health, TAMHSC, College Station, TX, USA
- PO780 POST-INFANCY GROWTH IN RELATION TO COGNITIVE ACHIEVEMENT AT AGE 8 YEARS: OBSERVATIONAL COHORT STUDY IN ETHIOPIA, INDIA, PERU AND VIETNAM**
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- PO781 ORAL LEPTIN SUPPLEMENTATION THROUGHOUT LACTATION AMELIORATES NEUROANATOMIC CONSEQUENCES IN THE OFFSPRING CAUSED BY MATERNAL MODERATE CALORIC RESTRICTION DURING GESTATION**
J. Sanchez, Laboratory of Molecular Biology, Nutrition And Biotechnology (Nutrigenomics), University of The Balearic Islands (UIB) And CIBER Fisiopatologia De La Obesidad Y Nutricion (CIBEROBN), Palma de Mallorca, Spain
- PO782 COMPARISON IN THE DEVELOPMENT OF THE MICROBIOTA ALONG THE GASTROINTESTINAL TRACT OF INFANT MICE AFTER BREAST-AND FORMULA FEEDING.**
C. Gomez-Gallego, Department of Human Nutrition and Food Science, University of Murcia, Espinardo, Murcia, Spain
- PO783 EFFECTS OF MATERNAL PALMITOLEIC-ACID SUPPLEMENTATION DURING PERINATAL LIFE IN THE OFFSPRING METABOLIC HEALTH IN RATS**
M. Palou, Laboratory of Molecular Biology, Nutrition and Biotechnology (Nutrigenomics), University of Balearic Islands and CIBER Fisiopatologia de la Obesidad y Nutricion (CIBEROBN), Palma de Mallorca, Spain
- PO784 DIFFERENTIAL FERRITIN INTERPRETATION STRATEGIES TO ACCOUNT FOR INFLAMMATION RESULT IN DISCREPANCIES IN IRON DEFICIENCY PREVALENCE IN MALNOURISHED SOUTH AFRICAN INFANTS**
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- PO786 NUTRITIONAL STATUS, SEVERITY OF SENSORY SENSITIVITIES AND FEEDING PROBLEMS IN CHILDREN (3-10 YEARS) WITH PERVASIVE DEVELOPMENTAL DISORDERS**
S. Ghosh-Jerath, Department of Food and Nutrition, Lady Irwin College, University Of Delhi, New Delhi, India
- PO787 THE ROLE OF LAY COMMUNITY HEALTH WORKERS IN PROMOTING EXCLUSIVE BREASTFEEDING PRACTICES AMONG HIV POSITIVE MOTHERS IN THE RURAL MALAWI**
A. Bula, Department of Maternal and Child Health, City University London, UK
- PO788 FATTY ACID METABOLISM: CHANGES IN LIVER MRNA EXPRESSION IN MICE FED WITH TWO DIFFERENT BRANDS OF HOMEGENIZED BABY FOOD**
E. Sanchez Samper, Food Sciences and Nutrition, Faculty of Veterinary, University of Murcia, Spain
- PO789 INTERGENERATIONAL TRANSMISSION AND CHILD FEEDING PRACTICES IN DETERMINING GROWTH DURING INFANCY AND CHILDHOOD**
K. Borkotoky, International Institute For Population Sciences (IIPS), Mumbai, Maharashtra, India
- PO790 FOOD INTAKE IN CUBAN INFANTS ACCORDING TO NUTRITIONAL AND SOCIOECONOMIC STATUS**
A. Cabrera, Department of Community Nutrition, Institute of Nutrition and Food Hygiene, Havana, Cuba
- PO791 PROPAN (PROCESS FOR THE PROMOTION OF CHILD FEEDING): A TOOL FOR INFANT AND YOUNG CHILD FEEDING PROGRAMMING**
C. Lutter, Pan American Health Organization/WHO, USA
- PO792 BREAST FEEDING PRACTICE IN BANGLADESH: ADDRESSING THE BOTTLENECKS WITH COMMUNITY HEALTH WORKERS IN A COMMUNITY BASED INTERVENTION OF BRAC**
M. Chowdhury, Brac Centre, Dhaka, Bangladesh
- PO793 DIET QUALITY OF MOROCCAN PERIMENOPAUSAL WOMEN INTEGRATED IN A MULTIDISCIPLINARY INTERVENTION STUDY**
P. Aranda, Department of Physiology And Institute of Nutrition And Food Technology, Faculty of Pharmacy And School of Sport Sciences, University of Granada, Granada, Spain
- PO794 IN VITRO IRON AVAILABILITY FROM SIX DIFFERENT INFANTS CEREALS RECONSTITUTED WITH GROWING-UP MILK OR WATER**
L. Fernandez-Palacios, University of Murcia, Murcia, Spain
- PO795 DIETARY IRON INTAKE AND IRON STATUS AMONG LACTATING WOMEN IN BHAKTAPUR, NEPAL**
S. Henjum, Oslo And Akershus University College, Norway
- PO796 DIET QUALITY IN A GROUP OF PERIMENOPAUSAL WOMEN FROM SOUTH SPAIN BASED ON FOOD FREQUENCY QUESTIONARY AND MEDITERRANEAN DIET SCORE.**
P. Ruiz-Cabello Turmo, School of Pharmacy, Department of Physiology, University of Granada, Spain
- PO797 CAFFEINE CONTENT AND EXERCISE-PSYCHOSTIMULANT EFFECTS OF VIA® INSTANT COFFEE**
S. Kirk, Department of Human Performance and Sports Business, University of Mount Union, Alliance, Ohio, USA
- PO798 CALCIUM INTAKE, MAJOR DIETARY SOURCES AND ITS ASSOCIATION WITH SOCIOECONOMIC STATUS IN PRIMARY SCHOOL CHILDREN IN TEHRAN**
N. Omidvar, Department of Community Nutrition, Faculty of Nutrition And Food Technology, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- PO799 IMPACT OF DAILY CONSUMPTION OF A MICRONUTRIENT-FORTIFIED, LIPID-BASED NUTRIENT SUPPLEMENT (LNS) ON BREAST MILK INTAKE IN MALAWIAN INFANTS**
C. Kumwenda, Department of International Health, University of Tampere School of Medicine, Tampere, Finland
- PO800 PATTERNS, MICRONUTRIENT AND CALORIC INTAKE FROM BEVERAGES IN OLDER ADULTS WITH MILD COGNITIVE IMPAIRMENT**
B. Venci, Department of Nutritional Sciences, University of Cincinnati, Cincinnati, Ohio, USA
- PO801 CHANGES IN FUNCTIONAL BIOCHEMICAL ZINC INDICES AND BONE MASS OF ADULT WOMEN DURING LACTATION**
V M. Gomes, Laboratorio de Bioquímica Nutricional e de Alimentos, Instituto de Química, Universidade Federal do Rio de Janeiro, Rio de Janeiro, RJ, Brazil
- PO802 ANTIOXIDANT CAPACITY OF BOTH PLASMA AND BREAST MILK DECREASED DURING LACTATION IN ADULT WOMEN EXCLUSIVELY BREASTFEEDING**
D I. Silva, Laboratorio de Bioquímica Nutricional e de Alimentos, Instituto de Química, Universidade Federal do Rio de Janeiro, Rio de Janeiro, RJ, Brazil
- PO803 FEASIBILITY AND ACCEPTABILITY OF INTEGRATING VITAMIN A RICH ORANGE FLESHED SWEET POTATO INTO ANTENATAL CARE SERVICES IN WESTERN KENYA**
Y. Machira, Program for Appropriate Technology in Health (PATH), Nairobi, Kenya
- PO804 CONTRIBUTION OF INTRA-ABDOMINAL AND/OR SUBCUTANEOUS ABDOMINAL AND TOTAL ADIPOSE TISSUE IN THE DEVELOPMENT OF THE CARDIOMETABOLIC RISK FACTORS IN CHILDREN**
N. Ramos-Ibanez, Department of Health Care, Autonoma Metropolitana University, Campus Xochimilco, Mexico City, Mexico
- PO805 COMPARISON OF VEGETARIAN AND NON-VEGETARIAN ADOLESCENTS ON ANTHROPOMETRIC PARAMETERS**
G. Segovia-Siapco, Department of Nutrition, School of Public Health, Loma Linda University, USA

- PO806 MATERNAL NUTRITION AND ITS CONTRIBUTION TO POOR OBSTETRIC OUTCOMES**
R. Galloway, Maternal And Child Health Integrated Program (MCHIP)/Program For Appropriate Technology In Health (PATH), USA
- PO807 THE OPERATIONAL RESEARCH FOR THE WORLD RELIEF RWANDA INNOVATION CHILD SURVIVOR PROJECT, NYAMAGABE DISTRICT**
J. McLean, Department of Food, Nutrition and Health, Faculty of Land and Food Systems, University of British Columbia, Vancouver, British Columbia, Canada
- PO808 VITAMIN A DEFICIENCY AND ANEMIA IN CUBAN PRESCHOOL CHILDREN**
B. Basabe-Tuero, Institute of Nutrition And Food Hygiene, La Habana, Cuba
- PO809 EFFECT OF LONG TERM SUGAR-SWEETENED BEVERAGE INTAKE ON BMI IN CHILDREN FROM 4 TO 12 YEARS OF AGE**
A. Cantoral, National Institute of Public Health, Mexico
- PO810 DETERMINANTS OF NON-USE OF ANTENATAL IRON SUPPLEMENTS AMONG PAKISTANI WOMEN: A HOUSEHOLD SURVEY**
Y. Nisar, Sydney School of Public Health, The University of Sydney, NSW 2006, Australia
- PO811 ASSOCIATION BETWEEN MATERNAL PRE-PREGNANCY BODY MASS INDEX, GESTATIONAL WEIGHT GAIN AND NEWBORN WEIGHT: A RETROSPECTIVE COHORT STUDY IN CHINA**
Y. Zhao, School of Public Health and Management, Chongqing Medical University, Chongqing, China
- PO812 RAPID BMI GROWTH FOLLOWED BY HEIGHT INCREASE PREDICT HIGH DHEAS IN 7 Y OLD CHILEAN CHILDREN**
C. Corvalan, Public Health Unit, Institute of Nutrition And Food Technology (INTA) University of Chile
- PO813 BREASTFEEDING AND DEPRESSION IN PREGNANT AND LACTATING WOMEN IN MALAYSIA**
C. Binns, School of Public Health, Curtin University, Perth, Western Australia, Australia
- PO814 DIET, PERCENTAGE OF BODY FAT AND AEROBIC POWER IN YOUTH SERIES OF FOOTBALL PLAYERS OF THE SANTIAGO WANDERERS CLUB**
C. Valenzuela, Nutricion y Dietetica, Facultad de Farmacia, Universidad de Valparaíso, Valparaíso, Chile
- PO815 FOOD HABITS AND LIFESTYLE AND ITS RELATIONSHIP TO THE PREVALENCE OF CHILDHOOD OBESITY IN CIUDAD GUZMAN JALISCO**
M. Padilla, Universidad de Guadalajara, Spain
- PO816 KNOWLEDGE, ATTITUDE AND PRACTICE OF INFANT FEEDING IN THE CONTEXT OF HIV: A CASE IN TANZANIA**
J. Kaganda, Tanzania Food and Nutrition Centre, Dar es Salaam, Tanzania
- PO817 HOME-BASED DIETETIC INTERVENTION IMPROVES NUTRITIONAL STATUS POST HOSPITAL DISCHARGE IN OLDER PEOPLE**
A H. Hamirudin, School of Health Sciences, University of Wollongong, Australia
- PO818 BREASTFEEDING BEYOND 12 MONTHS: WHO'S DOING THIS IN AUSTRALIA?**
J. Scott, School of Public Health, Curtin University, Australia
- PO819 DETERMINANTS OF BREASTFEEDING AT DISCHARGE IN RURAL CHINA: A PROSPECTIVE COHORT STUDY IN SICHUAN PROVINCE**
L. Tang, School of Public Health, Curtin University, Perth, Western Australia, Australia
- PO820 FORMATIVE WORK ON COMPLEMENTARY FEEDING PRACTICES AND ANEMIA KNOWLEDGE TO GUIDE THE DEVELOPMENT OF A HOME-FORTIFICATION PROTOCOL IN RWANDA**
K. Ho, Faculty of Land and Food Systems, University of British Columbia, Vancouver, BC, Canada
- PO821 THE INFLUENCE OF DIFFERENT DURATIONS OF AEROBIC EXERCISE ON FUEL UTILIZATION AND LACTATE LEVELS IN TRAINED RATS**
Y O. Cho, Department of Food & Nutrition, Duksung Women's University, Seoul, Korea
- PO822 BASAL METABOLIC RATE AND BODY COMPOSITION MEASURED FOR NUTRITIONAL ASSESSMENT IN RUGBY FOOTBALL PLAYERS**
C. Yamashita, Department of Food and Nutrition, Kyoto Women's University, Kyoto, Japan
- PO823 DIETARY INTAKE AND ANTHROPOMETRIC CHARACTERISTICS OF ADOLESCENT FEMALE BALLET DANCERS—A CROSS-SECTIONAL DESCRIPTIVE STUDY**
K L. Beck, Institute of Food Nutrition and Human Health, Massey University, Auckland, New Zealand
- PO824 INFLUENCE OF MACRONUTRIENT INTAKES ON SALIVARY IMMUNOGLOBULIN A LEVELS IN ATHLETES**
K. Yamazaki, Department of Food and Nutrition, Kyoto Women's University, Kyoto, Japan
- PO825 NUTRITION AND ECCENTRIC EXERCISE IN PEOPLE OVER 65 YEARS: EVIDENCE STUDY**
C. Wanden-Berghe, Department of Pharmacy, CEU Cardenal Herrera University, Elche, Spain
- PO826 A PROTEIN-ENRICHED DIET FAVOURABLY AFFECTS CARDIOVASCULAR HEALTH IN ELDERLY WOMEN UNDERTAKING PROGRESSIVE RESISTANCE TRAINING**
C. Nowson, School of Exercise & Nutrition Sciences, Deakin University, Burwood, Victoria, Australia
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R. Haider, Training & Assistance For Health & Nutrition (TAHN) Foundation, Dhaka, Bangladesh
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I. Sioen, Ghent University, Department of Public Health, Belgium
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F C. Tang, Graduate Institute of Nutritional Sciences and Education, National Taiwan Normal University, Taipei, Taiwan, ROC
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B. Delplanque, NMPA, CNPS, Université-Paris-Sud, Orsay, France
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- PO832 ASSOCIATION BETWEEN MICRONUTRIENTS AND THE GROWTH, BODY COMPOSITION AND EARLY MARKERS OF CHRONIC DISEASES IN CHILEAN CHILDREN**
D. Lopez De Romaña, INTA-University of Chile, Santiago de Chile, Chile
- PO834 INCREASING APPROPRIATE COMPLEMENTARY FEEDING IN A RURAL DISTRICT OF BANGLADESH: IMPLICATION FOR SOCIAL MOBILIZATION**
M. Jahan, Brac Centre, Dhaka, Bangladesh

- PO835 VITAMIN D INSUFFICIENT INFANTS (3 MONTHS OF AGE) HAD SUFFICIENT VITAMIN D STATUS AT 12 MONTHS OF AGE**
I E. Graff, National Institute of Nutrition and Seafood Research, Norway
- PO836 THE ASSOCIATION BETWEEN DIETARY CALCIUM INTAKE AND CHILDHOOD OBESITY IN MULTI-ETHNIC SCHOOL CHILDREN IN MALAYSIA**
S. Shohaimi, Universiti Putra, Malaysia
- PO837 INFANT FEEDING PRACTICES AMONG LIBERIAN REFUGEE WOMEN DURING THE EMERGENCY AND PROTRACTED PHASES OF REFUGEE SETTLEMENT**
A. Sandow, Point Hope Ghana
- PO838 RELATIONSHIP BETWEEN LOWER GASTROINTESTINAL DISTRESS AND DIETARY HABITS IN LONG DISTANCE RUNNERS.**
M. Matsumoto, Department of Physical Education, College of Humanities and Sciences, Nihon University, Japan
- PO839 THE ASSOCIATION BETWEEN STUNTING AND ANAEMIA AMONG SCHOOL-AGED CHILDREN AND ADOLESCENTS IN 10 LOW-INCOME COUNTRIES**
E. Rousham, Centre for Global Health and Human Development, SSEHS, Loughborough University, UK
- PO840 THE AVOIDANCE OF SPECIFIC FOODS AND BEVERAGES DURING PREGNANCY AND LACTATION IN THE WESTERN HIGHLANDS OF GUATEMALA**
E M. Diaz Ruiz, Center For Studies of Sensory Impairment, Aging And Metabolism (CeSSIAM), Guatemala City, Guatemala
- PO841 CONSUMPTION OF GRUELS DURING PREGNANCY AND LACTATION IN THE WESTERN HIGHLANDS OF GUATEMALA**
D. Fuentes, Center For Studies of Sensory Impairment, Guatemala City, Guatemala
- PO842 LOCAL CONCEPTS OF "HOT" AND "COLD" FOODS IN GUATEMALA: EFFECT OF FOOD TEMPERATURE-QUALITIES ON EATING BEHAVIORS DURING PREGNANCY AND LACTATION**
R. Garcia Meza, Center For Studies of Sensory Impairment, Aging And Metabolism (CeSSIAM), Guatemala City, Guatemala
- PO843 FOOD AVERSIONS AND FOOD CRAVINGS DURING PREGNANCY: A QUALITATIVE APPROACH EXAMINING EATING BEHAVIOURS AMONG MAYAN GUATEMALAN WOMEN**
R. Garcia Meza, Center for Studies of Sensory Impairment, Aging and Metabolism (CeSSIAM), Guatemala City, Guatemala
- PO844 ADHERENCE TO LIPID-BASED NUTRIENT SUPPLEMENT (LNS) AND IRON/FOLIC ACID TABLET (IFA) RECOMMENDATIONS DURING PREGNANCY AMONG RURAL BANGLADESHI WOMEN**
K L. Harding, Program In International And Community Nutrition, University of California, Davis, USA
- PO845 ENERGY AND NUTRIENT CONTRIBUTION OF COMPLEMENTARY FOODS IN 6 TO 11 MONTH OLD CHILDREN IN THE WESTERN HIGHLANDS OF GUATEMALA**
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- PO846 GROWTH PATTERN OF EXCLUSIVELY AND NON-EXCLUSIVELY BREASTFED INFANTS IN UMUAHIA URBAN, NIGERIA**
P. Ukegbu, Dept of Human Nutrition and Dietetics, Michael Okpara University of Agriculture, Umudike, Abia State, Nigeria
- PO847 KNOWLEDGE AND AWARENESS OF ANEMIA AMONG YOUNG ADOLESCENT GIRLS IN SOUTH SULAWESI, INDONESIA**
R. Indriasari, Nutrition Department/Faculty of Public Health, Hasanuddin University, Makassar, South Sulawesi, Indonesia
- PO848 DOES FREQUENCY OF FAMILY MEALS MAKE A DIFFERENCE AMONG ADOLESCENTS IN MALAYSIA?**
R. Fara Wahida, Department of Nutrition and Dietetics, Universiti Putra Malaysia, Serdang, Selangor, Malaysia
- PO849 EFFECTS OF LONG-TERM SUPPLEMENTATION WITH A MIXTURE OF SHORT AND LONG CHAIN INULIN-TYPE OLIGOSACCHARIDES ON FAECAL MICROBIOTA IN INFANTS**
M. Rodriguez-Palmero, Scientific Unit, Laboratorios Ordesa, Barcelona, Spain
- PO850 SKIPPING BREAKFAST MAY INDUCE DYSMENORRHEA AND IRREGULAR MENSTRUATION IN POST-ADOLESCENT WOMEN IN JAPAN**
T. Fujiwara, Ashiya College, Japan
- PO851 FIRST (FOOD-BASED INTERVENTION AND PSYCHOSOCIAL STIMULATION) PROGRAM: COMMUNITY-BASED INTERVENTION TO IMPROVE INTAKES OF KEY PROBLEM NUTRIENTS AND PSYCHOSOCIAL CARE**
U. Fahmida, SEAMEO-RECFO (Regional Center for Food and Nutrition), Universitas Indonesia, Jakarta, Indonesia
- PO852 EFFECT OF CONSUMPTION OF FREEZE-DRIED POWDERED YACON (FDY) ON PREVALENCE OF OBESITY, DYSLIPIDEMIA, OBESITY IN ELDERLY PEOPLE**
M. Scheid, Unicamp, Department of Food Science, School of Food Engineering, University of Campinas, Campinas, São Paulo, Brazil
- PO853 NUTRITION -KNOWLEDGE, -BEHAVIOUR AND -OPINIONS OF THE ELDERLY SWISS CONSUMERS**
D. Gille, Federal Department of Economic Affairs, Education and Research EAER, Agroscope Liebefeld-Posieux Research Station ALP, Berne, Berne, Switzerland
- PO855 MATERNAL KNOWLEDGE ABOUT FEEDING EARLY IN LIFE**
V Lucia. Bosa, Centro De Estudos Em Alimentação E Nutrição - CESAN, Hospital De Clinicas De Porto Alegre-Faculdade De Medicina-Universidade Federal Do Rio Grande Do Sul, Brasil
- PO856 HOW DOES THE ROLE OF GRANDMOTHERS AS PRIMARY CAREGIVERS IN POOR HOUSEHOLDS, COMPROMISE THEIR OWN RIGHT TO ADEQUATE FOOD?**
K T. Rendal, Department of Nutrition, Institute for Basic Medical Sciences, University of Oslo, Norway
- PO857 BREAKFAST CONSUMPTION AND STAGES OF BEHAVIORAL CHANGE AMONG BRAZILIAN HIGH SCHOOL GIRLS**
S. Tucunduva Philippi, Department of Nutrition, School of Public Health, University of São Paulo, Brazil
- PO858 ASSOCIATION BETWEEN MATERNAL NUTRITION STATUS AND BIRTH OUTCOME**
K. Przybylowicz, Department of Human Nutrition University of Warmia And Mazury, Olsztyn, Poland
- PO859 DETERMINATION OF CALCIUM AND SODIUM CONTENTS IN UHT AND POWDERS MILKS MARKETING IN THE CITY OF RIO DE JANEIRO - BRAZIL**
L. Rodrigues, Department of Public Health Nutrition, School of Nutrition, Federal University of the State of Rio de Janeiro, Brazil
- PO860 EVALUATION OF NUTRITIONAL STATUS OF PREGNANT WOMEN ASSISTED IN A HEALTHCARE UNIT IN PETROPOLIS, RJ, BRAZIL**
V. Marins, Curso de Nutrição, Faculdade Arthur Sa Earp Neto, Petropolis, Rio de Janeiro, Brazil
- PO861 BIRTH WEIGHT AND EXCESS WEIGHT IN CHILDREN ASSISTED IN A PUBLIC HEALTHCARE UNIT IN PETROPOLIS, BRAZIL**
V. Marins, Curso de Nutrição, Faculdade Arthur Sa Earp Neto, Petropolis, Rio de Janeiro, Brazil
- PO862 TRENDS IN LOW BIRTH WEIGHT PREVALENCE IN PETROPOLIS, RIO DE JANEIRO, BRAZIL BETWEEN 1994 AND 2010**
V. Marins, Curso de Nutrição, Faculdade Arthur Sa Earp Neto, Petropolis, Rio de Janeiro, Brazil
- PO863 TOLEDO AREA STUDY: ASSESSMENT OF DIET QUALITY, GLYCEMIC INDEX AND INSULIN RESISTANCE IN ADOLESCENTS**
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- PO864 RELATION BETWEEN THE DEPRESSION AND THE NUTRITIOUS CONDITION IN ADOLESCENTS OF MIDDLE SCHOOLS IN MEXICO CITY**
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- PO865 FAMILY VIOLENCE AND BODY IMAGE OF ADOLESCENTS IN A HEALTH FACILITY IN THE CITY OF RIO DE JANEIRO**
A M. Lourenço, Department of health of the municipality of Rio de Janeiro, Brazil
- PO866 A NATIONAL STUDY OF CHILEAN SCHOOL CHILDREN: RELATIONSHIP BETWEEN SUGARED NON-ALCOHOLIC BEVERAGES AND BODY MASS INDEX**
J. Araneda, Department of Nutrition And Public Health, Faculty of Health And Food Sciences, Universidad del Bio-Bio, Chile
- PO867 MALNUTRITION IN JAZAN REGION, KINGDOM OF SAUDI ARABIA**
Bani, Jazan University, Saudi Arabia
- PO868 MOTHERS PERCEPTION, FEEDING AND CARE OF LOW BIRTH WEIGHT INFANTS IN LAGOS STATE, NIGERIA**
B. Brai, Nigerian Institute of Medical Research, Yaba, Lagos, Nigeria
- PO869 ASSOCIATION OF BREAKFAST CONSUMPTION WITH OBJECTIVELY MEASURED AND SELF-REPORTED PHYSICAL ACTIVITY, SEDENTARY TIME AND PHYSICAL FITNESS IN EUROPEAN ADOLESCENTS: THE HELENA STUDY**
M. Cuenca-García, Department of Medical Physiology, Granada University, Granada, Spain
- PO870 NUTRITION AND DYSPHAGIA IN ELDERLY: THE IMPORTANCE OF SCREENING FOR EARLY IDENTIFICATION**
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- PO871 CHILDREN FROM THE WEALTHIER HOUSEHOLDS ARE LESS LIKELY TO BE EXCLUSIVELY BREASTFED: A STUDY FROM EAST NUSA TENGGARA, INDONESIA**
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- PO872 MATERNAL DECISION MAKING ABILITY AND SOCIAL SUPPORT: ASSOCIATIONS WITH INFANT YOUNG CHILD FEEDING AND NUTRITION IN RURAL NICARAGUA**
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- PO873 GLUTEN CONSUMPTION AT EARLY AGE IS DIFFERENT AMONG INFANTS FROM DIFFERENT EUROPEAN COUNTRIES. THE PREVENT-CD COHORTS**
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- PO874 ANEMIA PREVALENCE AMONG PREGNANT WOMEN RECEIVING CARE AT A HOSPITAL IN GHANA**
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- PO875 ASSOCIATIONS BETWEEN NUTRITIONAL STATUS, HOUSEHOLD FACTORS AND SPECIFIC DIARRHEAL PATHOGENS AMONG CHILDREN IN MIRZAPUR, BANGLADESH**
K. Long, School of Population Health, University of Queensland, Brisbane, Australia
- PO876 A GROWING PROBLEM IN CONSUMPTION OF ALCOHOLIC AND ENERGY DRINKS AMONG ADOLESCENTS**
S. Petrova, National Center of Public Health and Analyses, Sofia, Bulgaria
- PO878 DIETARY PATTERN, FIBER AND CHOLESTEROL, OF A GROUP OF ELDERLY YORUBA IN IBADAN, NIGERIA**
I. Olayiwola, Federal University Agriculture Abeokuta, Nigeria
- PO879 EARLY ADIPOSITY REBOUND IS ASSOCIATED WITH INCREASED METABOLIC RISK AT AGE 7Y IN CHILEAN CHILDREN**
L. Gonzalez, Department of Public Health and Nutrition, Institute of Nutrition and Food Technology, University of Chile, Santiago, Chile
- PO880 THE RISK OF VITAMIN B12 DEFICIT ASSOCIATED WITH THE USE OF METFORMIN IN CHILEAN OLDER PEOPLE**
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- PO881 A SYSTEMATIC REVIEW AND IMPLEMENTATION EVALUATION OF FEEDING PROGRAMMES FOR INFANTS AND YOUNG CHILDREN: FINDINGS AND IMPLICATIONS**
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- PO882 FOOD INTAKE PATTERN OF INFANTS IN KOREA**
D. Kim, Korea Health Industry Development Institute, Chungcheongbukdo, Korea
- PO883 HOUSEHOLD FOOD INSECURITY AND HOUSEHOLD EXPENDITURE ON CIGARETTE ASSOCIATED TO UNDERWEIGHT AMONG PRESCHOOL CHILDREN IN EAST JAVA, INDONESIA**
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- PO884 EFFECTS OF CARBOHYDRATE SUPPLEMENTATION ON PHYSIOLOGICAL VARIABLES DURING EXERCISE IN HYPOXIA**
A V. Caris, Departamento de Fisiologia da Nutrição, UNIFESP, Brasil
- PO885 EFFECT OF GLUTAMINE SUPPLEMENTATION ON TH1/TH2 BALANCE DURING EXERCISE IN HYPOXIA**
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- PO886 RURAL-URBAN DIFFERENTIALS IN LIFESTYLE AND FOOD SECURITY OF OLDER PERSONS IN IBADAN, NIGERIA**
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- PO887 COMPARISON OF NUTRIENT INTAKE OF OLDER PERSONS IN RURAL AND URBAN AREAS OF IBADAN, NIGERIA**
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- PO888 NEUROCOGNITIVE ABILITIES AND FOOD HABITS AMONG MOROCCAN CHILDREN**
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- PO890 BODY IMAGE PERCEPTION OF SCHOOLCHILDREN IN SÃO PAULO**
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- PO891 PHYSICAL ACTIVITY AND OVERWEIGHT IN CHILDREN AND ADOLESCENT: A CASE-CONTROL STUDY**
P. Costa, Science Health Centre, Federal University of Reconcavo of Bahia, Santo Antonio de Jesus, Brazil
- PO892 CYSTEINE SERUM LEVELS AND OBESITY IN CHILDREN AND ADOLESCENT**
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S. Mohd Jamil, Universiti Kebangsaan Malaysia (UKM)
- PO895 BODY MASS INDEX IS ASSOCIATED WITH FAT MASS IN NORMAL, OVERWEIGHT/OBESE, AND STUNTED PRESCHOOL CHILDREN IN CENTRAL THAILAND**
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- PO896 RECALL OF BREASTFEEDING DURATION IN AUSTRALIAN SURVEYS**
K. Graham, School of Public Health, Curtin University of Technology, Perth, Western Australia, Australia
- PO897 EARLY EVOLUTION OF STUNTING FROM BIRTH: A CROSS-SECTIONAL PERSPECTIVE ON LINEAR GROWTH FAILURE IN THE MAM-MAYAN WESTERN HIGHLANDS OF GUATEMALA**
A M. Chomat, CeSSIAM, Guatemala City, Guatemala
- PO898 RELATIONSHIP BETWEEN OVERWEIGHT AND CONCURRENT STUNTING IN VERY YOUNG INFANTS: EARLY NUTRITION TRANSITION IN THE MAM-MAYAN WESTERN HIGHLANDS OF GUATEMALA**
A. Maldonado, CeSSIAM, Guatemala City, Guatemala
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M. Escobar, CeSSIAM, Guatemala City, Guatemala
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M. Maldonado, CeSSIAM, Guatemala City, Guatemala
- PO901 A SYSTEMATIC REVIEW AND META-ANALYSIS OF THE EFFECT AND SAFETY OF GINGER IN THE TREATMENT OF PREGNANCY-ASSOCIATED NAUSEA AND VOMITING**
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- PO902 EFFECT OF LONG-TERM INTERMITTENT MULTIPLE MICRONUTRIENT SUPPLEMENTATION IN BANGLADESHI RURAL ADOLESCENT GIRLS WITH NUTRITIONAL ANEMIA**
F. Ahmed, School of Public Health & Griffith Health Institute, Griffith University, Gold Coast, QLD, Australia
- PO903 DIETARY DIVERSITY PREDICTS MEDICAL EXPENDITURES IN TAIWANESE ELDERLY**
M S. Lee, School of Public Health, National Defense Medical Center, Taiwan, ROC. Monash Asia Institute, Monash University, Victoria, Australia
- PO904 INCREASING MATERNAL BODY MASS INDEX (BMI) AFTER THE FIRST TRIMESTER OF PREGNANCY HAS A POSITIVE ASSOCIATION WITH INFANT BIRTH OUTCOMES**
R. Ayande, Department of Nutrition and food Science, University of Ghana, Legon, Ghana
- PO905 PROCESS INDICATORS FOR A RANDOMIZED TRIAL OF CELL PHONE BASED PEER COUNSELING TO SUPPORT EXCLUSIVE BREASTFEEDING IN KENYA**
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- PO906 BREAKFAST CONSUMPTION IN 16-18 YEAR OLDS: CURRENT TRENDS IN CONSUMPTION PATTERNS AND THE ASSOCIATION WITH WEIGHT STATUS**
K. Adolphus, Human Appetite Research Unit, Institute of Psychological Science, University of Leeds, UK
- PO907 ASSESSMENT OF NUTRITIONAL STATUS AND DEPRESSION PREVALENCE IN FREE-LIVING ELDERLY IN TABRIZ, IRAN**
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- PO908 COMPLEMENTARY FEEDING AND INFANT BODY COMPOSITION IN NORTHERN SPAIN**
G. Rodriguez, Department of Pediatrics, University of Zaragoza, Zaragoza, Spain
- PO909 NUTRITION, FITNESS AND CARDIOMETABOLIC RISK IN CHILEAN CHILDREN**
G. Weisstaub, MD, Msc, INTA, Chile
- PO910 EFFECT OF INFANT AND YOUNG CHILD FEEDING PRACTICES ON GROWTH IN CAMBODIA AND MALAWI**
I. Jordan, Justus Liebig University Giessen, Germany
- PO911 THE USE OF PHOTOVOICE TO IDENTIFY MATERNAL DIETARY CONSUMPTION IN RURAL BANGLADESH**
B. Stevens, James Cook University, Australia
- PO912 PREDICTED IMPLICATIONS OF USING PERCENTAGE WEIGHT GAIN AS SINGLE DISCHARGE CRITERION IN MANAGEMENT OF ACUTE CHILD MALNUTRITION IN RURAL ETHIOPIA**
E C. Ekström, Women's and Children's Health, Uppsala University, Uppsala, Sweden
- PO913 MINERALS COMPOSITION IN BREAST-MILK OF VIETNAM MOTHERS**
M. Truong Tuyet, National Institute of Nutrition, Hanoi, Vietnam
- PO914 PSYCHOSOCIAL FACTORS AS PREDICTORS OF BODY WEIGHT STATUS AMONG MALAYSIAN ADOLESCENTS**
M T. Mohd Nasir, Universiti Putra, Malaysia
- PO915 YOUNG CHILDRENS' NUTRITIONAL STATUS AND INFANT AND YOUNG CHILD FEEDING PRACTICES IN CAMBODIA**
A. Reinbott, Justus Liebig University Giessen, Germany
- PO916 KNOWLEDGE CAPITAL FOR FATHERS TO SUPPORT BREASTFEEDING: STEP-BY-STEP INVESTIGATIONS IN INDONESIAN URBAN SETTING**
J. Februhartanty, SEAMEO Regional Center For Food and Nutrition (RECFON), Universitas Indonesia, Indonesia
- PO917 SERUM CHERMERIN CONCENTRATIONS IN OBESE AND OVERWEIGHT CHILDREN BEFORE AND AFTER AN INTERVENTION PROGRAM**
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- PO918 MALNUTRITION IN BRASILIAN ELDERLY: EFFECT OF SENSORY CHANGES**
R. Machado, UFRJ - INJC, Rio de Janeiro, Brazil
- PO919 CULINARY WORKSHOPS IN HEALTH PROMOTION AND SPORTS PERFORMANCE: AN EXPERIENCE WITH BRAZILIANS ADOLESCENTS TENNIS PLAYERS**
G. Vedovato, Institute of Health and Society, Federal University of Sao Paulo, Brazil
- PO920 EFFECT OF A NUTRITIONAL INTERVENTION ON PHYSICAL RECOVERY - EVALUATION OF A CARBOHYDRATE-PROTEIN ISOTONIC DRINK**
A. Meheust, OxyLane Research, Health Lab, Villeneuve d'Ascq, France
- PO921 NO EFFECT OF BINDING FOLATE RECEPTOR AUTOANTIBODIES ON MATERNAL OR CORD FOLATE STATUS IN A LONGITUDINAL PREGNANCY STUDY**
M.I. Berrocal-Zaragoza, Preventive Medicine and Public Health and IISPV Faculty of Medicine and Health Sciences, Universitat Rovira i Virgili (URV), Reus, Tarragona, Spain
- PO922 THE RELATION BETWEEN DIET AND ALLERGEN CONCENTRATIONS IN BREAST MILK; OVALBUMIN CONCENTRATIONS AND LACTOFERRIN LEVELS IN BREAST MILK**
M. Hara, Showa Women's University, Tokyo, Japan

- PO923 A STUDY ON CHANGES IN FOOD PREFERENCES OF INFANTS AND THEIR MOTHERS**
R. Ueda, Department of Child Education, Teikyo University of Science, Yamanashi, Japan
- PO924 SNACKING AND INFANT YOUNG CHILD FEEDING PRACTICES IN A RURAL AREA OF NICARAGUA**
M. Contreras, Women's and Children's Health, Uppsala University, Uppsala, Sweden
- PO925 INFANT AND YOUNG CHILD FEEDING PRACTICES AND NUTRITIONAL STATUS IN NICARAGUA: ASSOCIATIONS WITH HOUSING QUALITY, FOOD SECURITY AND MATERNAL EDUCATION**
M. Contreras, Women's and Children's Health, Uppsala University, Uppsala, Sweden
- PO926 PREDICTORS OF DECLINE IN DIET QUALITY IN OLDER AGE - FINDINGS FROM THE HERTFORDSHIRE COHORT STUDY**
S. Robinson, MRC Lifecourse Epidemiology Unit, University of Southampton, Southampton, UK
- PO927 ANTHROPOMETRIC AND COGNITIVE PARAMETERS MAY AFFECT LOW ENERGY REPORTING IN ELDERLY**
M. Yannakoulia, Department of Nutrition and Dietetics, Harokopio University, Athens, Greece
- PO928 ANEMIA CONTROL PROGRAMS AND DECREASING ANEMIA PREVALENCE IN RWANDA**
E. Micomyiza, Maternal And Child Health Integrated Program (MCHIP)/Program For Appropriate Technology In Health (PATH), Rwanda
- PO929 FOOD INTAKE AND NUTRITIONAL STATUS OF PREGNANT AND LACTATING WOMEN IN SELECTED URBAN SQUATTERS AND CONCERN WORLDWIDE'S INITIATIVE IN BANGLADESH**
A. Azim, Urban Context, Concern Worldwide, Dhaka, Bangladesh
- PO931 VIOLATION OF BMS CODE IN DHAKA CITY**
S B. Salam, Dept. of Food & Nutrition, College of Home Economics, Azimpur, Dhaka, Bangladesh
- PO932 MATERNAL HIV-STATUS, EXCLUSIVE BREASTFEEDING AND INFANT ILLNESS AND GROWTH IN THE FIRST MONTH OF LIFE IN SEMI-RURAL TANZANIA**
S H. Pedersen, Division of Nutritional Sciences, Cornell University, Ithaca, NY, USA
- PO933 IMPACT OF IEC SUPPORT TO MOTHERS/CAREGIVERS ON NUTRITIONAL STATUS OF CHILDREN AGED 6-8 MONTHS, LIVING IN SLUM AREA OF DHAKA CITY**
I. Jahan, Bangladesh Breastfeeding Foundation, Mohakhali, Dhaka, Bangladesh
- PO934 DIETARY PATTERN AND DIETARY RISK OF ELDERLY PARTICIPANTS OF UNIVERSITY EXTENSION PROGRAMS IN SÃO PAULO, BRAZIL**
V. Perucha, University São Judas, Aging Studies Programme, São Paulo, Brazil
- PO935 USE OF HOME PARENTERAL NUTRITION IN A PREGNANT WOMAN WITH BOWEL OBSTRUCTION**
A J. Omiste Romero, UGC Endocrinología Y Nutrición, Hospital Carlos Haya, Malaga, Spain
- PO936 EFFECT OF RHEOLOGICAL PARAMETERS ON PUREES SENSORY ANALYSES CARRIED OUT BY INFANTS (4-24 MONTHS)**
A M. Inarejos Garcia, Research & Development Department, Dulcinea Nutrición SL, Puertollano, Spain
- PO937 CHILD FEEDING ADEQUACY IS NOT INFLUENCED BY EXCLUSIVE BREASTFEEDING DURATION**
Y. Goh, Department of Population, Family and Reproductive Health, University of Ghana, Legon, Accra, Ghana
- PO939 IMPACT OF POMEGRANATE AND APRICOT ON TOTAL ANTIOXIDANT AND FREE RADICALS AMONG PREGNANT WOMEN**
M. Ismail, College of Agriculture And Veterinary Medicine, Qassim University, Saudi Arabia
- PO940 EARLY INFANT FEEDING PRACTICES IN THE PROMISE-EBF TRIAL: PROMOTION OF EXCLUSIVE BREASTFEEDING BY PEER COUNSELLORS IN THREE COUNTRIES IN AFRICA**
I. Engebretsen, Centre for International Health, Dept of Global Public Health and Primary Health Care, University of Bergen, Bergen, Norway
- PO941 IS NUTRITION IN PREGNANCY ASSOCIATED WITH NEURODEVELOPMENTAL DISORDERS IN OFFSPRING? A SYSTEMATIC REVIEW**
S. Walker, Behavioural And Brain Sciences Unit, UCL Institute of Child Health, London, UK
- PO942 COMPARISON BETWEEN NUTRITIONAL STATUS, QUALITY OF LIFE, AMOUNT OF SLEEP AND FOOD INTAKE IN OLDER ADULTS OF SANTIAGO AND VIÑA DEL MAR, CHILE**
S. Duran, Universidad Autonoma de Chile, Department of Health, Santiago, Chile
- PO943 IDENTIFY THE RISK FACTORS OF OVERWEIGHT ADOLESCENTS IN DHAKA CITY**
S. Israt, Bangladesh Breastfeeding Foundation (BBF), Bangladesh
- PO944 IMPACT OF NUTRITION EDUCATION ON WEIGHT REDUCTION OF OVERWEIGHT AND OBESE ADOLESCENT GIRLS IN DHAKA CITY, BANGLADESH**
S. Israt, Bangladesh Breastfeeding Foundation (BBF), Bangladesh
- PO945 CLINICAL SIGNIFICANCE OF CHANGES IN ORGANS WEIGHT DUE TO THE RESISTANCE EXERCISE UNDER FASTING**
S. Yamada, Department of Food & Health Sciences, Faculty of Human Life Sciences, Jissen Women's University, Tokyo, Japan
- PO946 EFFECTS OF NUTRITION AND ENDURANCE EXERCISE ON THE DEVELOPMENT OF SKELETAL MUSCLE AND OTHER ORGAN WEIGHT**
H. Matsumoto, Department of Food & Health Sciences, Faculty of Human Life Sciences, Jissen Women's University, Tokyo, Japan
- PO947 EFFECTS OF INTAKE OF ASPARTIC ACID MAGNESIUM (D-MG) ON THE PHYSICAL FITNESS AND BODY COMPOSITION OF HUMAN**
H. Fujita, Department of Food&Health Sciences, Faculty of Human Life Sciences, Jissen Women's University, Tokyo, Japan
- PO948 SUPPLEMENTATION B VITAMINS IMPROVES COGNITIVE FUNCTION IN THE MIDDLE-AGED AND ELDERLY WITH HYPERHOMOCYSTEINEMIA**
Y. Jiang, Institute of Health & Environmental Medicine, Tianjin, China
- PO949 ANEMIA STATUS OF INFANTS 4-6 MONTHS OLD IN A RESOURCE-CONSTRAINED SETTING**
J. Njenga, Department of Food Science, Nutrition & Technology, University of Nairobi, Kenya
- PO950 DIETARY INTAKE AND NUTRITION KNOWLEDGE OF TURKISH NATIONAL FEMALE BOXING TEAM**
E D. Ciracioglu, Nutrition and Dietetics, Ankara University, Ankara, Turkey
- PO951 MICRONUTRIENT DEFICIENCY AMONG MONGOLIAN CHILDREN**
B. Jamiyan, National Center of Public Health, Ulaanbaatar, Mongolia
- PO952 INTRODUCTION OF SOLID FOODS TO INFANTS IN THE MALDIVES**
R. Abdul Raheem, Curtin University, Australia
- PO953 APPROPRIATE FREQUENCY OF ANTENATAL VISITS AND SUPPORT FROM HUSBAND IS ASSOCIATED WITH BETTER COMPLIANCE WITH MATERNAL IRON SUPPLEMENTATION IN INDONESIA**
L. Wiradnyani, Southeast Asian Minister of Education Organization-Regional Center For Food And Nutrition, University of Indonesia, Indonesia

- PO954 MILK AND DAIRY PRODUCTS: IMPLEMENTATION OF THE PROJECT APPROACH WITH SIX YEAR OLD CHILDREN**
N. Aktas, Department of Nutrition Education, University of Selcuk, Konya, Turkey
- PO955 VISCERAL ADIPOSITY AND ITS RELATIONSHIP WITH ANTHROPOMETRIC AND BIOCHEMICAL PARAMETERS IN POST-PUBERTAL OBESE ADOLESCENTS**
G. Possa, Pediatric Department, Federal University of São Paulo, São Paulo, Brazil
- PO956 INFLUENCE OF D-MG AND D-ZN INTAKE ON THE ATROGIN-1 GENE EXPRESSION IN INACTIVITY MODEL OF MOUSE**
A. Ozeki, Jissen Women's University, Tokyo, Japan
- PO957 NUTRITIONAL STATUS OF CHILDREN AND ADOLESCENTS IN GUANGXI, 1989-2009**
Z. Fang, Guangxi Zhuang Autonomous Region Center For Disease Control And Prevention, Nanning, China
- PO958 FEEDING PRACTICES AND ANTHROPOMETRIC STATUS IN CHILDREN (6 – 24 MONTHS) IN THE TOLON-KUMBUNGU DISTRICT OF NORTHERN GHANA**
P. Aryee, Community Nutrition Department, University For Development Studies, Tamale, Ghana
- PO960 CHARACTERISTICS OF BREAKFAST CONSUMPTION AMONG PRIMARY SCHOOL CHILDREN AT UNIVERSITY BASIC SCHOOL, LEGON, GHANA**
G. Osei Owusu, Department of Nutrition And Food Science, University of Ghana, Ghana
- PO961 BIOCHEMICAL INDICES OF INFANTS FED LEGUME-CEREAL COMPLEMENTARY FOOD FORTIFIED WITH MANGO POWDER, FISH-BONE POWDER AND PALM OIL**
N O. Onuoha, University of Nigeria, Nsukka, Nigeria
- PO962 ANTHROPOLOGY AND NUTRITION: EVALUATION OF THE NUTRITIONAL STATUS IN SEGOVIA'S CHILD POPULATION (3 TO 6 YEARS OLD)**
E. Garcia Hernandez, Laboratory of Anthropology, University of Granada, Granada, Spain
- PO963 AGREEMENT AMONG DIFFERENT BMI CUT-OFFS PROPOSED FOR THE DIAGNOSIS OF OVERWEIGHT IN ELDERLY**
M L. Rossi, Nutrition Program, Ministry of Health, Buenos Aires City, Argentina
- PO964 ANTHROPOMETRIC ASSESSMENT, RISK FACTORS AND PRESENCE OF CHRONIC DISEASES IN ELDERLY PEOPLE ATTENDING PUBLIC PRIMARY CARE**
M L. Rossi, Nutrition Program, Ministry of Health, Buenos Aires City, Argentina
- PO965 UNSKILLED WORKING MOTHERS ARE AT GREATER RISK FOR POOR CHILD PROTEIN INTAKE AND DIETARY DIVERSITY: AN INDONESIAN DHS 2002-2007 ANALYSIS**
A. Kekalih, Community Medicine Department Medical Faculty, Universitas Indonesia, Jakarta Indonesia
- PO967 BREAST FEEDING, EXCEPT COMPLIMENTARY FEEDING IS NOT ASSOCIATED WITH STUNTING AT CHILDREN AGED 12-23 MONTHS OLD IN INDONESIA**
N K. Aryastami, Center For Humanity, Health Policy And Community Empowerment, NIHRD-Ministry of Health, Indonesia
- PO968 WAYS TO INTERVENE AND SUPPORT ENGAGEMENT OF OLDER ADULTS WEIGHT LOSS STUDY (WISE OWLS) "C MIXED METHODS PROJECT DEVELOPING AN INTERVENTION**
K. Kiezebrink, Health Services Research Unit, University of Aberdeen, Aberdeen, UK
- PO969 "AGRI-FRYING" THE CRITICAL PATHWAYS TO MATERNAL ANEMIA IN TANZANIA: BRINGING AGRICULTURE INTO THE CONCEPTUAL FRAMEWORK**
L. Clemmons, The Manoff Group, Washington, USA
- PO970 HIGH-IMPACT HOUSEHOLD ACTIONS TO PREVENT CHILD MALNUTRITION THROUGH AGRICULTURE PROGRAMS**
L. Clemmons, The Manoff Group, Washington, USA
- PO971 UNDERWEIGHT IS A RISK FACTOR FOR IRON DEPLETION AND IRON-DEFICIENT ERYTHROPOIESIS AMONG INDONESIAN YOUNG WOMEN**
S S. Sri Sumarmi, Department of Nutrition, Faculty of Public Health, Airlangga University, Surabaya, Indonesia
- PO972 EXERCISE-BASED INTERVENTION TO PREVENT EXCESSIVE GESTATIONAL WEIGHT GAIN: A RANDOMIZED CONTROLLED TRIAL**
R. Barakar, Facultad de Ciencias de la Actividad Fisica y del Deporte-INEF Universidad Politecnica de Madrid, Spain
- PO974 THE STATUS OF THIAMINE, RIBOFLAVIN AND NIACIN IN CHILDREN AGED 0~3 YEARS OLD IN URBAN AND RURAL AREAS CHINA**
X. Han, Medical College of Qingdao University, China
- PO975 OBESITY AND VITAMIN D INSUFFICIENCY COEXIST AMONG CHILDREN LIVING IN A MULTIETHNIC SUN-RICH COUNTRY**
B K. Poh, Universiti Kebangsaan Malaysia
- PO976 DIETARY CALCIUM AND PHOSPHATE INTAKE IN THE AETIOLOGY OF RICKETS IN BANGLADESH**
S. Ahmed, MRC Human Nutrition Research (MRC HNR): Elsie Widdowson Laboratory, Cambridge, UK
- PO977 NUTRITIONAL STUDY OF DIET AND BODY COMPOSITION IN FUTSAL PLAYERS**
A. Lizarraga, Ciències Fisiològiques II Facultat de Medicina UB Bellvitge, Barcelona, Spain
- PO978 EARLY CHILDHOOD PROGRAMS AND ATTAINING DEVELOPMENTAL POTENTIAL**
L. Fernald, Division of Community Health and Human Development, School of Public Health, UC Berkeley, USA
- PO979 EFFECTS OF DIETARY LIFESTYLE EDUCATION PROGRAM FOR ADOLESCENTS IN MIDDLE SCHOOLS: STUDY DESIGN OF A CLUSTER RANDOMIZED CONTROLLED TRIAL**
J. Watanabe, Prefectural University of Kumamoto, Japan
- PO980 POSITIVE UNINTENDED CONSEQUENCES IN PROGRAMS FOR WOMEN'S AND CHILD NUTRITION IN BANGLADESH: SCALING UP TIPPY-TAPS**
Y. Arafat, SPRING/Bangladesh - Save the Children, Dhaka, Bangladesh
- PO981 THE EFFECT OF DOWNHILL WALKING ON MUSCLE DAMAGE AND GLUCOSE METABOLISM ON THE NEXT DAY**
A. Nakayama, Laboratory of Health Science, Graduate School of Life and Environmental Sciences, Kyoto Prefectural University, Japan
- PO982 MATERNAL CALCIUM SUPPLEMENTATION DURING PREGNANCY AND BLOOD PRESSURE IN RURAL GAMBIA CHILDREN AT 3 AND 9 YEARS OLD**
G. Goldberg, MRC Human Nutrition Research, Cambridge, UK
- PO983 CALCIUM INTAKE, MAJOR DIETARY SOURCES AND ITS ASSOCIATION WITH SOCIO-ECONOMIC STATUS IN PRIMARY SCHOOL CHILDREN IN TEHRAN**
N. Omidvar, Department of Community Nutrition, Faculty of Nutrition And Food Technology, Shahid Beheshti University of Medical Sciences, Tehran, Iran

- PO984 ANTHROPOMETRIC INDICATORS ARE ASSOCIATED WITH NONVERBAL IQ IN SOUTH EAST ASIAN SCHOOL-AGED CHILDREN**
P. Parikh, Friesland Campina, Amersfoort, The Netherlands
- PO985 MODIFIED MILK WITH THE ADDITION OF SUNFLOWER OIL, SELENIUM AND VITAMIN E IN THE DIET OF COWS INFLUENCING THE HEALTH OF THE ELDERLY**
K. Pfrimer, Department of General Internal, University of São Paulo, Brazil
- PO986 THE DMC-II: A PRACTICAL, RELIABLE, AND SENSITIVE TOOL FOR ASSESSING NEUROBEHAVIORAL DEVELOPMENT IN NUTRITION TRIALS**
E. Prado, Department of Nutrition, University of California Davis, Davis, CA, USA
- PO987 NUTRITIONAL AND BEHAVIORAL FACTORS' INFLUENCE IN BREAKFAST INTAKE OF ADOLESCENTS REGISTERED IN PUBLIC SCHOOLS IN SALVADOR, BRAZIL**
M L. Portela de Santana, Department of Nutritional Science, School of Nutrition, Federal University of Bahia, Salvador, Bahia, Brazil
- PO988 RISK FACTORS FOR ADOPTING EXTREME WEIGHT CONTROL AMONG PUBLIC SCHOOL ADOLESCENTS OF THE SALVADOR, BRAZIL: A CONTROL-CASE STUDY**
M L. Portela de Santana, Department of Nutritional Science, School of Nutrition, Federal University of Bahia, Brazil
- PO989 RECOVERY OF BONE MASS AT WEANING IS INFLUENCED BY BREASTFEEDING, TIME SINCE MENARCHE AND POSTPARTUM PERIOD IN ADOLESCENT MOTHERS.**
M E L. Diogenes, Instituto de Química, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil
- PO990 PROMOTION OF ORANGE-FLESHED SWEET POTATO IN AQUATIC AGRICULTURAL SYSTEMS FOR IMPROVED FOOD AND NUTRITION SECURITY IN BANGLADESH**
S M. Allauca, WorldFish, Bangladesh
- PO991 THE EFFECT OF EDUCATION IN KNOWLEDGE, ATTITUDE AND PRACTICE EARLY BREASTFEEDING INITIATION IN TOWN OF PAREPARE, INDONESIA**
N. Jafar, Hasanuddin of University, Indonesia
- PO993 INTEGRATING MATERNAL, INFANT AND YOUNG CHILD NUTRITION (MIYCN) AND FAMILY PLANNING (FP) SERVICES TO IMPROVE HEALTH AND NUTRITION IN KENYA**
J. Kimiywe, Maternal and Child Health Integrated Programme (MCHIP), Kenya
- PO994 SOCIOECONOMIC DIFFERENCES IN FRUIT AND VEGETABLE CONSUMPTION, RESULTS OF THE DUTCH NATIONAL FOOD CONSUMPTION SURVEY-YOUNG CHILDREN 2005-2006**
E J. De Boer, National Institute For Public Health And The Environment (RIVM), The Netherlands
- PO995 EARLY ADIPOSITY REBOUND IS ASSOCIATED WITH INCREASED METABOLIC RISK AT AGE 7Y IN CHILEAN CHILDREN**
L. Gonzalez Cespedes, Institute of Nutrition And Food Technology, Santiago de Chile, Chile
- PO996 FEAST AND FAMINE: THE DILEMMA OF EXTREME CONTRASTS IN VITAMIN A CONSUMPTION IN THE WESTERN HIGHLANDS OF GUATEMALA**
I. Bielderman, Center For Studies of Sensory Impairment, Aging And Metabolism (CeSSIAM), Guatemala City, Guatemala
- PO997 NUTRITION EDUCATION INTERVENTION IMPROVES NUTRITIONAL STATUS AND HEALTHCARE SEEKING PRACTICES OF PREGNANT WOMEN IN LOW INCOME SETTINGS**
A. Malhotra, Lakshmibai College (University of Delhi), Delhi, India
- PO998 ADHERENCE TO MICRONUTRIENT POWDER (SPRINKLES) AMONG CHILDREN AGED 6-59 MONTHS IN RURAL BANGLADESH**
M. Angdembe, James P. Grant School of Public Health, Dhaka, Bangladesh
- PO999 USE OF SEVEN-DAY RECORDS TO ESTIMATE ENERGY AND NUTRIENT INTAKES IN SPANISH ADOLESCENTS: INFLUENCE OF DURATION OF RECORDING PERIOD**
M I. Mesana, GENUd 'Growth, Exercise, Nutrition and Development' Research Group, Universidad de Zaragoza, Zaragoza, Spain
- PO1000 PREVALENCE AND DETERMINANTS OF ENERGY UNDERREPORTING IN SPANISH ADOLESCENTS PARTICIPATING IN THE AVENA CROSS-SECTIONAL STUDY**
M I. Mesana, GENUd 'Growth, Exercise, Nutrition and Development' Research Group, Universidad de Zaragoza, Zaragoza, Spain
- PO1001 COMPARISON OF DAILY DIETARY ENERGY AND MACRONUTRIENTS INTAKE WITH DRI IN COLLEGE STUDENTS OF KERMAN MEDICAL UNIVERSITY, KERMAN, IRAN**
F. Doostan, Assistant professor of nutrition, Department of Nutrition, Health Faculty, Kerman University of Medical Sciences, Iran
- PO1002 DISORDERED EATING AND UNHEALTHY WEIGHT-CONTROL BEHAVIORS AND ASSOCIATED FACTORS IN ADOLESCENTS FROM SÃO PAULO, BRAZIL**
G V S. Leal, Department of Nutrition - School of Public Health, University of São Paulo, Brazil
- PO1003 UNDERWEIGHT IS A RISK FACTOR FOR IRON DEPLETION AND IRON-DEFICIENT ERYTHROPOIESIS AMONG INDONESIAN YOUNG WOMEN**
S. Sumarmi, Department of Nutrition, Faculty of Public Health, Airlangga University, Surabaya, Indonesia
- PO1004 A DETERMINATION OF VITAMIN D STATUS AND INTAKE OF PREGNANT AND NON-PREGNANT SAUDI ARABIAN WOMEN IN RIYADH, SAUDI ARABIA**
N. AlTheyab, Queensland University, Australia
- PO1005 ANALYSIS OF PHYSICAL ACTIVITY, NUTRITIONAL STATUS, SOY AND SOY-PRODUCT CONSUMPTION HABIT AS A DETERMINANT OF MENOPAUSAL SYNDROME IN ELDER WOMEN**
I. Tanzih, Department of Community Nutrition, Faculty of Human Ecology, Bogor Agricultural University, Indonesia
- PO1006 INFANT SIZE AND BODY COMPOSITION IN RELATION TO THE INSTITUTE OF MEDICINE GESTATIONAL WEIGHT GAIN RECOMMENDATIONS**
E. Forsum, Department of Clinical and Experimental Medicine, Linköping University, Linköping, Sweden
- PO1007 COMPLEMENTARY FEEDING PRACTICES AMONG MOTHERS IN SELECTED SLUMS OF DHAKA CITY: A DESCRIPTIVE STUDY**
F. Ara, FDept of Community Nutrition, Bangladesh Institute of Health Sciences (BIHS), Bangladesh
- PO1008 DAIRY PRODUCT CONSUMPTION AND THE NUTRITIONAL STATUS OF PRESCHOOL CHILDREN IN ACCRA, GHANA**
M O. Mensah, Department of Nutrition and Food Science, University of Ghana, Legon, Ghana
- PO1009 EFFECTIVENESS OF FOLIFER SUPPLEMENTATION ALONE VS SUPPLEMENTATION IN COMBINATION TO NUTRITION EDUCATION ON BIRTH OUTCOMES OF RURAL WOMEN, INDIA**
S. Upadhyay, Dept of Nutrition & Dietetics, Lovely Professional University, Punjab, India
- PO1010 THE INFLUENCE OF DIETARY FATTY ACIDS INTAKE DURING PREGNANCY ON THE COMPOSITION OF MATURE BREAST MILK**
R Y. Nishimura, Department of Social Medicine, University of Sao Paulo, Brazil

- PO1012 STUDY ON DIET AND BODY WEIGHT IN SCHOOL CHILDREN AGED 7-14 YEARS FROM THE SOUTH REGION OF BULGARIA (THE EPODE METHODOLOGY)**
T. Handjieva-Darlenska, Department of Pharmacology And Toxicology, Medical Faculty, Medical University, Sofia, Bulgaria
- PO1013 EVALUATION OF DIET AND PHYSICAL ACTIVITY IN SCHOOL-AGE POPULATION IN BULGARIA (THE EPHE PROJECT)**
T. Handjieva-Darlenska, Department of Pharmacology And Toxicology, Medical Faculty, Medical University, Sofia, Bulgaria
- PO1014 "BECAUSE MOST MOTHERS ARE HUSTLERS": CHALLENGES OF AN URBAN POOR BREASTFEEDING MOTHER IN NAIROBI SLUMS**
E. Kimani-Murage, African Population And Health Research Center (APHRC), Nairobi Kenya
- PO1015 DIFFERENTIALS IN RISK OF HIGH BLOOD PRESSURE IN UNDERNOURISHED AND OVER-NOURISHED ADOLESCENTS IN URBAN INDIA**
S. Rao, Agharkar Research Institute, India
- PO1016 REPRODUCIBILITY OF SEMI-QUANTITATIVE FOOD FREQUENCY QUESTIONNAIRE MODIFIED FOR MEASUREMENT OF DIOXINS AND RELATED COMPOUNDS IN DIET**
J. Zajac, Jagiellonian University Medical College, Hygiene And Dietetics Dept, Poland
- PO1017 VITAMIN D INTAKE AND FOOD SOURCES OF THE VITAMIN IN A REPRESENTATIVE SPANISH SAMPLE AGED 7-16 YEARS**
A. Aparicio, Departamento De Nutricion, Facultad de Farmacia, Universidad Complutense de Madrid, Spain
- PO1018 MAGNESIUM INTAKE AND ODDS OF DEPRESSION IN INSTITUTIONALIZED ELDERLY PEOPLE WITHOUT ANTIDEPRESSANT TREATMENT**
A. Aparicio, Departamento de Nutricion, Facultad de Farmacia, Universidad Complutense de Madrid, Spain
- PO1019 EFFECTS OF IRON AND N-3 FATTY ACID SUPPLEMENTATION ON SPONTANEOUS MOTOR ACTIVITY AND ADHD-RELATED BEHAVIOUR IN SOUTH AFRICAN CHILDREN**
C M. Smuts, Centre of Excellence in Nutrition, North-West University, Potchefstroom, South Africa
- PO1020 SKIM MILK FORTIFIED WITH BUTTERMILK AFFECTS THE PLASMA PHOSPHOLIPID AND FATTY ACID COMPOSITION IN HEALTHY SUBJECTS**
P. Castro-Gomez, Instituto de Investigacion en Ciencias de la Alimentacion, (CIAL, CSIC-UAM), Bioactividad y Analisis de los Alimentos, Madrid, Spain
- PO1021 PROMOTING INCREASED KNOWLEDGE OF MATERNAL HEALTH AND NUTRITION THROUGH THE EGYPT SMART PROJECT: BASELINE AND TRAINING RESULTS**
A. Abdelmegeid, Maternal And Child Health Integrated Program (MCHIP)-Smart Project/Save The Children, Cairo, Egypt
- PO1022 A COMPARISON OF CALCIUM AND PHOSPHORUS INTAKES IN RURAL GAMBIAN CHILDREN BETWEEN 1995-2008: AN EFFECT OF THE NUTRITION TRANSITION?**
L M A. Jarjou, MRC Keneba, Gambia
- PO1023 UNBALANCED NUTRITIONAL PROFILE IN BABY FOODS ALTERS PLASMA CYTOKINES AND SPLEEN CELLS POPULATIONS IN MICE MODEL**
E. Sanchez Samper, Food Science and Nutrition, University of Murcia, Spain
- PO1024 THE RELATION BETWEEN SELF-PERCEIVED FOOD ENVIRONMENT AND FRUIT AND VEGETABLE INTAKE BY PREGNANT WOMEN**
D C C. Zuccolotto, Post-Graduation In Community Health, University of Sao Paulo, Brazil
- PO1025 ASSOCIATION BETWEEN PERINATAL FACTORS AND COMPONENTS OF THE METABOLIC SYNDROME AND INSULIN RESISTANCE IN CHILDREN OF PUENTE ALTO, SANTIAGO, CHILE**
F. Mardones, Pontificia Universidad Catolica De Chile, Chile
- PO1026 GLUCOSE-INDUCED NEURONAL ACTIVATION DURING COGNITIVE TASK PERFORMANCE IN OLDER ADULTS DEPENDS ON GLYCEMIC-INDICATORS AND BLOOD CHOLESTEROL LEVELS: AN FMRI STUDY**
W.Y. Yuen, Rotman Research Institute, Baycrest Centre, Toronto, ON, Canada
- PO1028 CRITICAL PATHWAYS AFFECTING MATERNAL ANEMIA: A ROAD MAP FOR INTEGRATED PROGRAMMING FOR NUTRITION, HEALTH AND AGRICULTURE**
M. Antal, The Manoff Group, USA
- PO1029 INCREASE IN SALT CONSUMPTION IN CHILDHOOD IN THE NETHERLANDS; DUTCH NATIONAL FOOD CONSUMPTION SURVEY 2007-2010**
C. Van Rossum, National Institute For Public Health And The Environment (RIVM), Bilthoven, The Netherlands
- PO1030 VISUALIZING THE IMPACT OF SELECTED BEHAVIORS ON NUTRITIONAL STATUS AND THE EFFECTIVENESS OF APPROACHES TO PROMOTING POSITIVE BEHAVIORS**
S. Lamstein, The SPRING Project / JSI, Boston, USA
- PO1031 WAIST CIRCUMFERENCE AND ITS RELATIONSHIP WITH BIOCHEMICAL PARAMETERS IN BRAZILIAN STUDENTS**
G. Possa, Pediatric Department, Federal University of São Paulo, São Paulo, Brazil
- PO1032 A RANDOMIZED CONTROLLED TRIAL INDICATES BENEFITS OF CELL PHONE BASED PEER COUNSELING TO SUPPORT EXCLUSIVE BREASTFEEDING IN KENYA**
D. Sellen, Departments of Anthropology, University of Toronto, Ontario, Canada
- PO1033 PROCESS INDICATORS FOR A RANDOMIZED TRIAL OF CELL PHONE BASED PEER COUNSELING TO SUPPORT EXCLUSIVE BREASTFEEDING IN KENYA**
S. Mbugua, Department of Human Nutrition, Egerton University, Njoro, Kenya
- PO1034 INFANT MEDICATION, ILLNESS AND GROWTH IN A RANDOMIZED CONTROLLED TRIAL OF EXCLUSIVE BREASTFEEDING SUPPORT IN KENYA**
A. Webb Girard, Hubert Department of Global Health, Emory University, Atlanta, USA
- PO1035 NUTRITIONAL STATUS AND FEEDING/NUTRITION PRACTICES OF CHILDREN AND WOMEN IN THREE DISTRICTS OF INDONESIA**
S. Muslimatun, SEAMEO RECFON, University of Indonesia, Jakarta, Indonesia
- PO1036 RATIO OF MICRONUTRIENT INTAKE FROM ANIMAL TO NON-ANIMAL SOURCE FOODS AND LINEAR GROWTH OF 1-5 YEARS OLD CHILDREN IN INDONESIA**
S. Muslimatun, SEAMEO RECFON, University of Indonesia, Jakarta, Indonesia
- PO1037 EATING HABITS CONCERNING FATS IN DIET OF POLISH AND AMERICAN MEDICAL COLLEGE STUDENTS, COMPARISON**
J. Zajac, Jagiellonian University Medical College, Hygiene And Dietetics Dept, Krakow, Poland

- PO1038 COMPARISON OF EATING HABITS CONCERNING FRUITS, VEGETABLES AND FOOD FIBER IN DIET OF POLISH AND AMERICAN MEDICAL COLLEGE STUDENTS**
J. Zajac, Jagiellonian University Medical College, Hygiene And Dietetics Dept, Krakow, Poland
- PO1039 STUNTING AND IRON DEFICIENCY ARE ASSOCIATED WITH LOW PRESCHOOL DEVELOPMENT SCORES IN A RURAL INDIAN COMMUNITY**
M M. Black, Pediatrics, University of Maryland School of Medicine, Baltimore, MD, 21201, USA
- PO1040 NUTRITIONAL STATUS AT BIRTH AND BLOOD PRESSURE IN CHILEAN YOUNG ADULTS: IS THERE AN AMPLIFICATION WITH AGE?**
P. Bustos, Department of Nutrition, Faculty of Medicine, University of Chile, Chile
- PO1041 POST-PARTUM HIGH-DOSE VITAMIN A SUPPLEMENTATION TO IMPROVE VITAMIN A STATUS OF MOTHER AND INFANT: THE ROLE OF TIMING AND INFLAMMATION**
T T. Nga, National Institute of Nutrition, Ministry of Health, Hanoi, Vietnam
- PO1042 MATERNAL MILK CALCIUM CONSUMPTION IMPROVES BIRTH SIZE IN RURAL INDIA**
A. Ganpule-Rao, Agharkar Research Institute, Pune, India
- PO1043 IMPACT OF NUTRITION EDUCATION ON PREGNANCY WEIGHT GAIN AND BIRTH OUTCOME**
K. Jahan, Bangladesh Breastfeeding Foundation (BBF), Bangladesh. Nutrition Foundation of Bangladesh (NFB), Bangladesh
- PO1045 NUTRITIONAL PROBLEMS RELATED TO CALCIUM INTAKE IN CHILDREN WITH LACTOSE INTOLERANCE**
A I. Jimenez Ortega, Pediatric Gastroenterology, Hospital San Rafael, Madrid, Spain
- PO1046 INTAKE OF VITAMIN K AS MODULATOR OF INSULIN RESISTANCE IN A GROUP OF SPANISH SCHOOLCHILDREN**
A I. Jimenez Ortega, Pediatric Gastroenterology, Hospital San Rafael, Madrid, Spain
- PO1047 CAN COMPLEMENTARY FEEDING BEHAVIOR CHANGE INTERVENTIONS ACHIEVE IMPACT AT SCALE?**
M J. Van Liere, Global Alliance for Improved Nutrition (GAIN), Geneva, Switzerland
- PO1048 LIFE COURSE STAGES AND TRANSITIONS ASSOCIATED WITH WEIGHT GAIN IN OBESE MEN**
H H. Van Der Spuy, Department of Consumer Science, Faculty of Natural and Agricultural Sciences, University of Pretoria, Pretoria, Gauteng, South Africa
- PO1049 LEVEL OF ANEMIA AMONG ADOLESCENT GIRLS IN TRIBAL INDIA**
R. Rani, Institute of Health Management Research, India
- PO1050 A LONGITUDINAL STUDY OF IRON STATUS FROM PREGNANCY TO POSTPARTUM PERIODS**
Y. Watanabe, Kagawa Nutrition University, Sakado, Saitama, Japan
- PO1051 MEDITERRANEAN DIET ADHERENCE AND RISK OF FRACTURES IN OLDER PERSONS: RESULTS FROM THE THREE-CITY STUDY**
C. Feart, INSERM U897, Univ Bordeaux Segalen, Epidemiologie-Biostatistique, F-33076 Bordeaux Cedex, France
- PO1052 ADEQUACY OF FOLATE INTAKE DURING PREGNANCY: THE ROLE OF FLOUR FORTIFICATION AND DIETARY SUPPLEMENT**
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- PO1053 DIET QUALITY DIFFERENCES IN URBAN AND RURAL ADOLESCENTS AND SOCIOECONOMIC ASSOCIATED FACTORS. A TUNISIAN STUDY**
H. Aounallah-Skhiri, JNational Institute of Public Health, Tunis, Tunisia
- PO1054 METABOLOMIC STUDY OF THE EFFECT OF ANTIMETHANOGENIC TREATMENT ON RUMEN METABOLISM AT EARLY LIFE OF GOAT KIDS**
L. Abecia, Instituto de Nutricion Animal, Estacion Experimental Del Zaidin-CSIC, Armilla, Granada, Spain
- PO1055 EFFECT OF ANTIMETHANOGENOGENESIS TREATMENT ON RUMEN METABOLIC PROFILE OF LACTATING GOATS**
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- PO1056 HELMINTH INFECTIONS AND MICRONUTRIENTS IN SCHOOLCHILDREN: A SYSTEMATIC REVIEW AND META-ANALYSIS**
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- PO1057 TRENDS OF COMPLEMENTARY FEEDING INDICATORS IN CHILDREN AGED 6-23 MONTHS IN TANZANIA FROM 2004-50 TO 2010**
R. Victor, Community Health and Nutrition Department, Tanzania Food And Nutrition Centre, Tanzania
- PO1058 MATERNAL WORKING CHARACTERISTIC IS ASSOCIATED WITH CHILD UNDERWEIGHT IN URBAN MIDDLE-CLASS FAMILIES OF INDONESIA**
A. Roshita, SEAMEO RECFON University of Indonesia, Indonesia
- PO1059 TRENDS OF BREASTFEEDING INDICATORS IN TANZANIA FROM 1999 TO 2010**
R. Victor, Community Health and Nutrition Department, Tanzania Food And Nutrition Centre, Tanzania
- PO1060 A STUDY OF DIETARY AWARENESS OF MOTHERS AND THEIR INFANTS**
N. Takagi, Toyama College, Japan
- PO1061 EFFECTS OF QUERCETIN SUPPLEMENTATION AND EXERCISE ON MITOCHONDRIAL BIOGENESIS IN RAT MUSCLE**
R A. Casuso, Department of Health Sciences, University of Jaen, Spain
- PO1062 EFFECTS OF QUERCETIN SUPPLEMENTATION AND EXERCISE ON PGC-1 ALPHA AND SIRT1 IN RAT BRAIN**
R A. Casuso, Department of Health Sciences, University of Jaen, Spain
- PO1063 FAT MASS INDEX (FMI), LEAN MASS INDEX (LMI) AND APPENDICULAR MUSCLE MASS INDEX (AMMI) IN PROFESSIONAL FUTSAL PLAYERS**
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- PO1064 ACCEPTABILITY OF SALADS IN SCHOOL MEALS CONSUMED IN REAL CONDITIONS IN THE MUNICIPALITY OF MURCIA, SPAIN**
A. Rodriguez-Tadeo, Research Group Nutrition and Food Science, Faculty of Veterinary Medicine, University of Murcia, Spain
- PO1065 HOME ENTERAL NUTRITION SUPPORT IN SPANISH CHILDREN. DATA FROM THE PAEDIATRIC HOME ENTERAL NUTRITION REGISTER (NEPAD). TEN YEARS OF FOLLOW-UP**
V M. Navas-Lopez, Paediatric Gastroenterology, Hepatology and Nutrition Unit, Hospital Materno Infantil, Malaga, Spain
- PO1066 USE OF DEUTERIUM OXIDE TO MEASURE BREAST MILK INTAKE AMONG INFANTS BORN TO HIV NEGATIVE AND HIV POSITIVE MOTHERS**
E M. Urio, Department of Food Science and Nutrition, Tanzania Food And Nutrition Centre, Dar-es-Salaam, Tanzania
- PO1067 INFLUENCE OF GINGER AND CINNAMON INTAKE ON INFLAMMATION AND MUSCLE SORENESS ENDUCED BY EXERCISE IN IRANIAN FEMALE ATHLETES**
R. Ghiasvand, Food Security Research Center, Isfahan University of Medical Sciences, Iran

- PO1068 QUERCETIN SUPPLEMENTATION DOES NOT ATTENUATE EXERCISE PERFORMANCE AND BODY COMPOSITION IN YOUNG FEMALE SWIMMERS**
R. Ghiasvand, Food security Research Center, Isfahan University of Medical Sciences, Iran
- PO1069 DIETARY BEHAVIORS AND NUTRITIONAL ASSESSMENT OF YOUNG MALE ISFAHANI WRESTLERS**
L. Darvishi, Food Security Research Center, Isfahan University of Medical Sciences, Iran
- PO1070 EFFECT OF EIGHT WEEKS OF QUERCETIN SUPPLEMENTATION ON EXERCISE PERFORMANCE, MUSCLE DAMAGE AND BODY MUSCLE IN MALE BADMINTON PLAYERS**
L. Darvishi, Food Security research Center, Isfahan University of Medical Sciences, Iran
- PO1071 EVALUATION OF QUALITY OF LIFE OF INSTITUTIONALIZED ELDERLY AFTER RECEIVING MODIFIED MILK**
D. Takaara, Medical Clinical Department, Medical School of Ribeirão Preto, University of São Paulo, Ribeirão Preto, São Paulo, Brazil
- PO1072 EATING DISORDERS IN CHILDREN STUDENTS OF A SÃO PAULO PRIVATE SCHOOL ANSWER THE STANDARDIZED QUESTIONNAIRES (EAT-26, BITE AND BES QUESTIONNAIRES)**
R F. Simony, Mackenzie University, Rio de Janeiro, Brazil
- PO1073 A FORMATIVE ASSESSMENT OF COMPLEMENTARY FOODS AND FEEDING PRACTICES IN THREE REGIONS OF GHANA**
S. Armah, Department of Nutrition and Food Science, University of Ghana, Accra, Ghana
- PO1074 DIETARY DIVERSITY AS AN INDEX OF INFANT NUTRITION, HEALTH, AND DEVELOPMENT IN RURAL INDIA**
K M. Hurley, Department of International Health, The Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA
- PO1075 DIETARY INTAKES AND EATING HABITS OF ELITE ATHLETES IN SERBIA: ARE THEY FOLLOW THE CURRENT SPORTS NUTRITION STANDARDS?**
B. Djordjevic, Sport Medicine Association of Serbia, Belgrade, Serbia
- PO1076 EFFECTS OF ASTAXANTHIN SUPPLEMENTATION ON DNA STABILITY AND PARAOXONASE 1 ACTIVITY IN YOUNG SOCCER PLAYERS**
I. Baralic, Sport Medicine Association of Serbia, Belgrade, Serbia
- PO1077 ASSOCIATION BETWEEN FAT INTAKE DURING PREGNANCY AND GESTATIONAL DIABETES**
P. Barbieri, Department of Social Medicine, University of São Paulo, Brazil
- PO1078 PROTEIN INGESTION ENHANCES WHOLE BODY NET PROTEIN BALANCE AFTER PHYSICAL ACTIVITY IN HEALTHY CHILDREN**
D. Moore, Nestle Research Centre, Lausanne, Switzerland
- PO1079 NET POSTPRANDIAL PROTEIN UTILISATION OF 15N-LABELLED LAMB HYDROLYSATE IN OLDER ADULT HUMANS**
S. Henare, Riddet Institute, Massey University, Palmerston North, New Zealand
- PO1080 PRE-PREGNANCY BODY MASS INDEX AND MATERNAL WEIGHT GAIN ARE INDEPENDENT PREDICTORS OF NEWBORN BIRTH WEIGHT**
S. Gowachirapant, Institute of Nutrition, Mahidol University, Nakhon Pathom, Thailand
- PO1081 BREASTFEEDING AT 3 MONTHS IS ASSOCIATED WITH LOWER RISK OF ADIPOSITY AND LIPID METABOLISM ALTERATIONS AT 4 Y OF AGE**
I. Ramirez-Silva, Center for Research in Nutrition and Health, National Institute of Public Health, Cuernavaca, Morelos, Mexico
- PO1082 PREVALENCE AND RISK FACTORS OF ANEMIA IN LACTATING WOMEN IN CHINA**
Z. Yang, National Institute of Nutrition And Food Safety, Chinese Center For Disease Control And Prevention, China
- PO1083 COMPARISON OF STUDENT'S DIET FOCUSING ON N-6/N-3 POLYUNSATURATED FATTY ACIDS BETWEEN IOWA STATE UNIVERSITY (ISU) AND UNIVERSITY OF HYOGO (UH).**
N. Hiramatsu, Nutritional Science, School of Human Science and Environment, University of Hyogo, Japan
- PO1084 ANEP IN BANGLADESH: ENABLING INFORMED NUTRITION CHOICES AND GREATER ACCESS TO NUTRITION FOODS**
S. Siraj, Save The Children In Bangladesh
- PO1085 GESTATIONAL HYPERTENSION; RISK FACTOR; DIETARY INTAKE**
F. Jebunnesa, Bangladesh Institute of Health Sciences, Dhaka, Bangladesh
- PO1086 NUTRITIONAL STATUS ASSOCIATED WITH SOCIO-DEMOGRAPHIC VARIABLES AND FOOD SECURITY AMONG CHILDREN: A STUDY IN DISADVANTAGED RURAL BANGLADESH**
A. Quddus, Department of Agricultural Statistics, Bangladesh Agricultural University, Mymensingh, Bangladesh
- PO1087 A PAST HISTORY OF GESTATIONAL HYPERTENSION IDENTIFIES WOMEN AT RISK FOR HYPERTENSIVE DISEASE AND ASSOCIATED WITH DIET**
F. Jebunnesa, Dept of Biochemistry and Cell Biology, Bangladesh Institute of Health Sciences, Bangladesh
- PO1088 THE EFFECT OF INTERMITTENT ANTENATAL IRON SUPPLEMENTATION ON INFANT OUTCOMES IN RURAL VIETNAM: A CLUSTER RANDOMISED TRIAL**
S. Hanieh, Department of Medicine, University of Melbourne, Melbourne, Vic, Australia
- PO1089 MATERNAL VITAMIN D DEFICIENCY AND INFANT OUTCOMES IN RURAL VIETNAM**
S. Hanieh, University of Melbourne, Melbourne, Vic, Australia
- PO1090 ANTENATAL AND EARLY INFANT RISK FACTORS FOR IMPAIRED INFANT GROWTH DURING THE FIRST 12 MONTHS OF LIFE IN RURAL VIETNAM**
S. Hanieh, University of Melbourne, Australia
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J. Waid, Helen Keller International, Bangladesh
- PO1092 FOOD BELIEFS AMONG DIABETIC PREGNANT MOTHERS IN BANGLADESH**
K R. Ahmed, Dept of Health Promotion & Health Education, Bangladesh Institute of Health Sciences, Bangladesh
- PO1093 ASSOCIATION OF TELEVISION VIEWING AND DIETARY BEHAVIOR WITH OVERWEIGHT AND OBESITY IN PRIMARY SCHOOL CHILDREN OF DHAKA CITY**
S. Sultana, Dept of Health Promotion & Health Education, Bangladesh Institute of Health Sciences, Bangladesh
- PO1094 DIETARY PATTERN AND FOOD HABITS AMONG ADOLESCENT AND ADULT STUDENT GIRLS IN A CITY OF SOUTH INDIA**
S. Omidvar, University of Mysore, India
- PO1095 DOSE-DEPENDENT EFFECTS OF N-3 FATTY ACID ON ERYTHROCYTE MEMBRANE IN CYCLISTS**
I. Guillen Guillen, Catedra de Fisiologia del Ejercicio, Universidad Catolica San Antonio, Murcia, Spain
- PO1096 INFLUENCE OF BIRTHWEIGHT AND BREASTFEEDING PRACTICES ON BODY ADIPOSITY AND INSULIN RESISTANCE OF ADOLESCENTS IN MALAYSIA**
L H. Foo, Programme of Nutrition, School of Health Sciences, Universiti Sains Malaysia, Health Campus, Kubang Kerian, Kelantan, Malaysia

- PO1097 A COMPARATIVE STUDY OF IDEAL BODY MASS INDEX AND DIET-RELATED FACTORS OF YOUNG WOMEN IN KOREA AND JAPAN**
K. Mizumoto, Fukuoka Women's University, Japan
- PO1098 THE RELATION BETWEEN MATERNAL NUTRITIONAL STATUS WITH BABY BIRTH WEIGHT AND BIRTH LENGTH IN SINT CAROLUS HOSPITAL JULY - SEPTEMBER 2011**
C. Kliranayungie, Departement of Nutrition, University of Indonesia, Depok, West Java, Indonesia
- PO1099 EFFECT OF PRENATAL LIPID-BASED NUTRIENT SUPPLEMENTATION ON GESTATIONAL WEIGHT GAIN**
H. Lanou, Institut de Recherche en Sciences de la Sante (IRSS). Child Health and Nutrition Unit, Department of Public Health, Institute of Tropical Medicine, Antwerp, Belgium
- PO1100 BIOELECTRICAL IMPEDANCE VECTOR ANALYSIS (BIVA) AND PHASE ANGLE (PA) IN HEALTHY AND FRAGILE ELDERLY**
F. Lourenço Costa, Medical Clinical Department, Medical School of Ribeirão Preto, University of São Paulo, Ribeirão Preto, São Paulo, Brazil
- PO1101 PILOT STUDY IN MATURE SPANISH WOMEN**
M T. Iglesias, Universidad Francisco De Vitoria, Madrid, Spain
- PO1103 ASSESSMENT OF YOUNG INFANTS' EXCLUSIVE BREASTFEEDING PRACTICE IN GEOGRAPHICALLY DIVERSE AREAS OF BANGLADESH**
M R R. Talukder, Centre for Child and Adolescent Health, International Centre For Diarrhoeal Disease Research, Bangladesh, 68, Shaheed Tajuddin Ahmed Saroni, Mohakhali, Dhaka, Bangladesh
- PO1104 ROLE OF SCHOOL FEEDING PROGRAMME IN MALNUTRITION AMONG UNDER FIVE CHILDREN IN OBOKUN LOCAL GOVERNMENT AREA OF OSUN STATE NIGERIA**
I O. Akinyele, Food Basket Foundation International, Nigeria
- PO1105 INTIMATE PARTNER VIOLENCE AND FEEDING PRACTICES OF CHILDREN ATTENDED IN BASIC HEALTH UNITS OF THE RIO DE JANEIRO CITY, BRAZIL**
R. Mezzavilla, Rio de Janeiro State University, Brazil
- PO1106 FOLLOW UP OF AMBULATORY AND HOME ENTERAL NUTRITION IN A SPANISH TERTIARY CHILDREN HOSPITAL**
R. Berzosa, Hospital Materno Infantil Carlos Haya, Madrid, Spain
- PO1107 VITAMIN D, ADIPOSITY AND METABOLIC BIOMARKERS IN CHILEAN CHILDREN**
G. Cediel, Institute of Nutrition And Food Technology (INTA), Chile
- PO1108 RAPID WEIGHT GAIN IS AN EARLY RISK FACTOR FOR PRESCHOOL OVERWEIGHT AND OBESITY: A CASE CONTROL STUDY IN SRI LANKA**
A. Satchithanathan, Department of Applied Nutrition, Faculty of Livestock, Fisheries and Nutrition, Wayamba University of Sri Lanka, Makandura, Sri Lanka
- PO1109 MINERALS IN FOODS FOR INFANTS AND YOUNG CHILDREN**
V. Öhrvik, Science Department, National Food Agency, Sweden
- PO1110 MATERNAL MILK CONSUMPTION, BIRTH SIZE AND ADULT HEIGHT OF OFFSPRING: A PROSPECTIVE COHORT STUDY WITH 20 YEARS OF FOLLOW-UP**
L. Hrolfsdottir, Faculty of Food Science and Nutrition, School of Health Sciences, University of Iceland, Reykjavik, Iceland
- PO1111 MILK CONSUMPTION THROUGHOUT LIFE IS ASSOCIATED WITH BONE MINERAL DENSITY IN ELDERLY MEN AND WOMEN**
T. Eysteinsdottir, Unit for Nutrition Research, University of Iceland and Landspítali National-University Hospital, Reykjavik, Iceland
- PO1112 USE OF DIFFERENT FORTIFIED FOODS, AT THE HOUSEHOLD LEVEL, DISTRIBUTED BY A FOOD ASSISTANCE PROGRAM IN BURKINA FASO**
T. Traore, GRET, NUTRIFASO Program, Ouagadougou, Burkina Faso
- PO1113 PHYSICAL ACTIVITY PERFORMED AT EVENING TIME ALTERS CIRCADIAN RHYTHMICITY TOWARDS A LESS HEALTHY PATTERN**
P. Rubio-Sastre, Department of Physiology, Faculty of Biology, University of Murcia, Murcia, Spain
- PO1115 INFLUENCE OF DIETARY PHYTOSTEROIDS IN THE ANTIOXIDANT CAPACITY IN ELITE AND SUB-ELITE SOCCER PLAYERS**
L. Gravina, Department of Physical Education and Sport, Faculty of Physical Activity and Sports Science, University of the Basque Country, Spain
- PO1116 DIET AND ACADEMIC PERFORMANCE AMONG NORWEGIAN ADOLESCENTS**
T H. Stea, Department of Public Health, Sport and Nutrition, Faculty of Health and Sport Sciences, University of Agder, Norway
- PO1117 SHIFTING PARADIGMS OF CHILDHOOD HUNGER, MALNOURISHMENT, AND OBESITY: A HISTORICAL POLICY ANALYSIS OF SCHOOL-BASED NUTRITION IN THE UNITED STATES**
C. Tran, University of Washington, USA
- PO1118 EFFECT OF A 12-WEEK RESISTANCE EXERCISE INTERVENTION ON CIRCULATING TOTAL IGF-I IN ELDERLY PEOPLE: RELATIONSHIPS WITH DIETARY INTAKE AND LEAN BODY MASS**
A. Ramel, Unit For Nutrition Research, Faculty Of Food Science And Nutrition, University Of Iceland And Landspítali-University Hospital, Reykjavik, Iceland
- PO1119 CHANGED DIET IN INFANCY AND ASSOCIATION WITH BMI AT 6 YEARS: TWO PROSPECTIVE POPULATION BASED STUDIES 1995-2002 AND 2005-2012**
B. Thorisdottir, Unit For Nutrition Research, Faculty of Food Science And Nutrition, University of Iceland And Landspítali-University Hospital, Iceland
- PO1120 PROTEIN SOURCES IN INFANCY AS PREDICTORS FOR BODY MASS INDEX AND IGF-1 CONCENTRATION AT THE AGE OF 6 YEARS**
B. Thorisdottir, Unit For Nutrition Research, Faculty of Food Science And Nutrition, University of Iceland And Landspítali-University Hospital, Iceland
- PO1121 ENERGY INTAKE AND EXPENDITURE AND BASAL METABOLISM IN PREGNANT ADOLESCENTS FROM NITEROI, RIO DE JANEIRO, BRAZIL**
E. Sally, Laboratório de Avaliação Nutricional e Funcional, Departamento de Nutrição Social, Universidade Federal Fluminense, Brazil
- PO1122 EVOLUTION OF PERIPHERAL LYMPHOCYTE SUBSETS DURING THE PREGNANCY PERIOD. RESULTS OF THE PREOBE STUDY**
L E. Diaz, Immunonutrition Group, ICTAN, CSIC, Madrid, Spain
- PO1123 FACTORS INFLUENCING DIETARY INTAKE AND NUTRITIONAL STATUS OF PRE-SCHOOL CHILDREN RESIDING IN THE SOUTHERN TOWNSHIP OF GAUTENG, SOUTH AFRICA**
T. Nyathela, Centre of Sustainable Livelihoods, Vaal University of Technology, South Africa

- PO1124 DETERMINATION OF NUTRITIONAL STATUS OF TRAINED WRESTLERS IN AYDIN WRESTLING TRAINING CENTER**
F. Tamer, Hacettepe University, Ankara, Turkey
- PO1126 CONSUMPTION OF FRUITS AND VEGETABLES AMONG ROMANIAN SCHOOL CHILDREN**
L. M. Lotrean, Department of Hygiene, University of Medicine And Pharmacy, Cluj-Napoca, Romania
- PO1127 PREVALENCE OVER ONE YEAR OF ABNORMAL VITAMIN B12 AND BLOOD LIPIDS RELATED BIOMARKER VALUES IN SPANISH INSTITUTIONALIZED ELDERLY**
G. Palacios, Department of Health And Human Performance, Faculty of Physical Activity And Sport Sciences, Technical University of Madrid, Madrid, Spain
- PO1128 INFLUENCE OF VITAMIN D SUPPLEMENTATION ON VITAMIN D STATUS AND BONE MASS DURING LACTATION- DOUBLE BLINDED RANDOMIZED CONTROL TRIAL**
J. Czech-Kowalska, Department of Neonatology and Neonatal Intensive Care, The Children's Memorial Health Institute, Warsaw, Poland
- PO1129 THE VALUE OF THE SUBJECTIVE MNA ITEMS IN THE MNA TOTAL SCORE IN ELDERLY NURSING HOME RESIDENTS**
R. Serrano Urrea, University of Castilla-La Mancha, Spain
- PO1130 ENVIRONMENTAL FACTORS ASSOCIATED WITH OVERWEIGHT IN BRAZILIAN PRESCHOOL CHILDREN**
J. A. Silveira, Department of Pediatrics, Universidade Federal de São Paulo, São Paulo, São Paulo, Brazil
- PO1131 EXCLUSIVE BREASTFEEDING FOR 4 VERSUS 6 MONTHS AND GROWTH IN EARLY CHILDHOOD**
I. Thorsdottir, Unit for Nutrition Research, Landspítali - The National University Hospital of Iceland and Faculty of Food Science and Nutrition, School of Health Sciences, University of Iceland, Reykjavik, Iceland
- PO1133 EUROPEAN ADOLESCENTS CONSUMING BREAKFAST REGULARLY HAVE HIGHER PLASMA 25-HYDROXYVITAMIN D CONCENTRATIONS AND LESS BODY FAT PERCENTAGE THAN BREAKFAST SKIPPERS**
J. Valtueña Santamaria, ImFine Research Group, Department of Health and Human Performance, Faculty of Physical Activity and Sport Sciences (INEF), Universidad Politécnica de Madrid, Madrid, Spain
- PO1134 PRENATAL LIPID-BASED NUTRIENT SUPPLEMENTS INCREASE CORD LEPTIN CONCENTRATION IN PREGNANT WOMEN FROM RURAL BURKINA FASO**
L. Huybregts, Department of Food Safety and Food Quality, Ghent University, Belgium
- PO1135 EFFICACY OF DAILY AND INTERMITTENT SUPPLEMENTATION WITH MICRONUTRIENT POWDERS DURING 6 AND 12 MONTHS ON ANEMIA IN PERUVIAN INFANTS**
N. Zavaleta, Instituto de Investigacion Nutricional, Lima, Peru
- PO1136 NUTRITIONAL CARE IN PATIENTS WITH PARKINSON'S DISEASE LEVODOPA DRUG USERS**
A. I. Cruz Perez, Secretaria De Estado Da Saude De São Paulo, Brazil
- PO1137 NUTRITIONAL AND BEHAVIORAL PROFILE OF OBESE ADOLESCENTS IN TREATMENT BY LOW AND VERY LOW CALORIE DIETS**
L. Oliveira Leite, Clinica Da Obesidade, Santos, Brazil
- PO1138 POSTPARTUM WEIGHT RETENTION AND NUTRITIONAL STATUS IN ADULT WOMEN ADMITTED AT HEALTH CARE UNITS IN RIO DE JANEIRO/ BRAZIL**
C. V. Silva, Institute Nutrition, State University of Rio De Janeiro, Brazil (UERJ) & Veiga de Almeida University, Brazil
- PO1139 THRESHOLD SALT TASTE SENSIBILITY IN TEENS: RELATION TO BLOOD PRESSURE AND NUTRITIONAL STATUS**
V. Kirsten, Universidade Federal Do Rio Grande Do Sul - Ufrgs, Brazil
- PO1140 EARLY INTRODUCTION OF ULTRA-PROCESSED FOODS IN THE FEEDING OF CHILDREN UNDER TWO YEARS**
A. M. Rinaldi, School of Medicine, Federal University of Uberlandia, Brazil
- PO1141 THE EFFICACY OF MULTIPLE MICRO NUTRIENTS SPRINKLE TO IMPROVE IRON STATUS OF ADOLESCENT GIRLS IN ISLAMIC RELIGIOUS SCHOOL - TANGERANG, INDONESIA**
M. Sitompul, School of Nutrition, Health Polytechnic Jakarta, Indonesia
- PO3298 RANDOMIZED DOUBLE-BLIND CROSS-OVER STUDY OF A NUTRITIONAL SUPPLEMENT SPECIFIC FOR PATIENTS WITH NEURODEGENERATIVE DISEASES OVER INFLAMMATORY AND CARDIOVASCULAR RISK BIOMARKERS**
C. E. Garcia-Rodriguez, Department of Biochemistry And Molecular Biology II, Institute of Nutrition And Food Technology, Spain
- PO3309 NUTRITIONAL STATUS OF WOMEN CONSULTANTING THE HEALTH CENTRES OF ERRACHIDIA DISTRICT IN THE SOUTH-WEST OF MOROCCO**
B. El Bouhali, Team of Nutritional Physiology and Endocrine Pharmacology, Faculty of Science and Technique, University Moulay Ismail, Errachidia, Morocco
- PO3310 INTERVAL EXERCISE IMPROVES EXERCISE TOLERANCE IN COPD PATIENTS WITH NO ALTERATIONS IN ABDOMINAL FAT DEPOSITION**
I. Giannopoulou, Physical Education & Sports Science Dept, University of Athens, Athens, Greece
- PO3311 ENGAGING FATHERS AND GRANDMOTHERS TO IMPROVE MATERNAL DIETS AND INFANT AND YOUNG CHILD FEEDING PRACTICES IN WESTERN PROVINCE, KENYA**
F. Thuita, School of Public Health, University of Nairobi, Kenya
- PO3312 FLUID INTAKE IN CHILDREN AND ADOLESCENTS OF DEVELOPED CITIES IN CHINA**
S. Du, National Institute For Nutrition And Food Safety, Chinese Center For Diseases Control And Prevention, China
- PO3313 NUTRITIONAL STATUS OF ELDERLY PEOPLE LIVING AT HOME IN SIDI-BEL-ABBES (WEST ALGERIA)**
M. B. Khaled, Departement of biology, Faculty of Natural and Life Sciences, Djilali Liabes University of Sidi-Bel-Abbès, Algeria
- PO3314 EFFECT OF FOOD-BASED SUPPLEMENT PRIOR TO AND DURING PREGNANCY ON BIRTH WEIGHT AND PREMATURITY IN RURAL VIETNAM (VINAVAC STUDY)**
N. Tu, Vietnam Nutrition Association (VINUTAS), Hanoi, Vietnam
- PO3315 NUTRITION EDUCATION FOR ADOLESCENTS: AN INTERVENTIONAL APPROACH TO CREATE AWARENESS ON "EAT RIGHT AND PLAY WITH MIGHT"**
D. R. Rao, National Institute of Nutrition (ICMR), Hyderabad, India
- PO3316 THE IMPACT OF PRELACTEAL FEEDING ON BREASTFEEDING DURATION AMONG MOTHERS IN KUWAIT**
M. Dashti, Nutrition and Medical Catering Unit, Jaber al-Ahmed Armed Forces Hospital, Kuwait
- PO3317 NUTRITIONAL INTERVENTION FOR SPANISH ELITE MALE WHEELCHAIR BASKETBALL PLAYERS**
L. Grams, Faculty of Physical Activity And Sport Sciences, Technical University Madrid, Spain
- PO3318 POTENTIALS AND BARRIERS TO EXCLUSIVE BREASTFEEDING AMONG WOMEN IN AN URBAN LOW-RESOURCE SETTING IN NAIROBI, KENYA: A QUALITATIVE STUDY**
S. Ochola, Department of Food, Nutrition and Dietetics, Kenyatta University, Nairobi, Kenya

- PO3319 DIETETIC EDUCATION TOOL IN PAEDIATRIC PATIENTS IN HEMODIALYSIS**
S. Arroyo Parisi, Escuela de Nutricion, Universidad ISALUD, Buenos Aires, Argentina
- PO3320 RELATIONSHIP BETWEEN SERUM FOLATE STATUS AND BLOOD CADMIUM CONCENTRATIONS IN PREGNANT WOMEN: MOTHERS AND CHILDREN'S ENVIRONMENTAL HEALTH (MOCEH)**
H. Kim, Department of Nutritional Science and Food Management, Ewha Womans University, Seoul, South Korea
- PO3321 INFLUENCE OF DIETARY NITRATE SUPPLEMENTATION ON THE PHYSICAL PERFORMANCE AND THE AUTONOMIC NERVOUS SYSTEM ACTIVITY IN HEALTHY PEOPLE – PRELIMINARY STUDY**
L. Štulrajterova, Department of Health Promotion, Faculty of Sports Studies, Masaryk University, Brno, Czech Republic
- PO3322 FLUID INTAKE AND NUTRITION STATUS IN CHILDREN AND ADOLESCENTS OF DEVELOPED CITIES IN CHINA**
Q. Zhang, Chinese Center For Disease Control And Prevention, China
- PO3323 ANALYSIS OF DIETARY HABITS IN JUNIOR REPRESENTATION IN SPORT GYMNASTICS**
I. Hrnčířikova, Faculty of Sports Studies, Masaryk University, Czech Republic
- PO3324 INTERVENTION TO IMPLEMENT HEALTHIER EATING HABIT IN SCHOLAR CHILDREN**
A-Z. Herlinda, University of Guanajuato, Mexico

T3. Public Health Nutrition and Environment

- PO889 ULTRASOUND MEASUREMENT OF BONE AGE IN CHILDREN: AN EPIDEMIOLOGICAL APPROACH**
L M. Prieto Parra, Institute of Nutrition and Food Technology, University of Chile, Chile
- PO1142 BIRTH WEIGHT AND OBESITY IN 7-14-Y-OLD SCHOOLCHILDREN OF FLORIANOPOLIS CITY - SOUTH OF BRAZIL**
C E. Rossi, Universidade Federal Da Fronteira Sul, Santa Catarina, Brazil
- PO1143 PREPARATION AND EVALUATION OF SALAD OIL BLENDS RICH IN OMEGA-3 AND -6 FATTY ACIDS**
M. Mostafa, Department of Food Science and Technology, Faculty of Agriculture University of Minufiya, Shebin El-Kom, Egypt
- PO1144 EATING HABITS, LIFESTYLE AND OBESITY: STUDY OF A GROUP OF WOMEN FROM BOUMERDES CITY-ALGERIA**
B. Ouzruat, Information and Training of Health-Promotion, Association of Boumerdes, Algeria
- PO1145 COMPARISON OF ENERGY INTAKE AND RESTING METABOLIC RATE AND THEIR RELATION TO ANTHROPOMETRIC AND SOCIODEMOGRAPHIC FACTORS AMONG IRANIAN WOMEN**
M. Shaneshtin, National Nutrition and Food Technology Research Institute, Shahid Beheshti University of Medical Sciences and Health Services, Tehran, Iran
- PO1146 CHANGES IN PROTEIN- ENERGY STATUS OF HOSPITALIZED CHILDREN DURING THEIR STAY AT MOFID CHILDREN'S HOSPITAL, TEHRAN, IRAN**
M. Beheshti Beglar, Department of Nutrition, Mofid Childre's Hospital, Tehran, Iran
- PO1147 ASSESSMENT OF NUTRITIONAL STATUS AND QUALITY OF LIFE OF WOMEN IN IBADAN NIGERIA**
A. Okekunle, Department of Human Nutrition, University of Ibadan, Nigeria
- PO1148 FACTORS ASSOCIATED WITH RECOVERY AMONG ETHIOPIAN MALNOURISHED HIV PATIENTS (PRE ART AND ART) THAT RECEIVED FOOD BY PRESCRIPTION**
S. Ghosh, Friedman School of Nutrition Science and Policy, Tufts University, Boston, USA
- PO1149 IMPACT OF HOUSEHOLD HEADS ALCOHOL CONSUMPTION ON DIETARY DIVERSITY AND MORBIDITY IN CHILDREN BELOW FIVE YEARS IN NANDI COUNTY, KENYA**
J. Saina, Kiambu Institute of Science and Technology, Kenya
- PO1150 BALANCED NUTRITION AT WORK: THE EUROPEAN PROGRAMME FOOD (FIGHTING OBESITY THROUGH OFFER AND DEMAND)**
N. Bertrand, Public Affairs Department, Edenred, Brussels, Belgium
- PO1151 THE VULNERABILITY OF SELECTED FARMERS IN VALENCIA, NEGROS ORIENTAL, PHILIPPINES TO CLIMATE CHANGE: EL NIÑO PHENOMENON AND MALNUTRITION**
J. Pis-An, Silliman University, Dumaguete City, Philippines
- PO1152 BARRIERS TO MOTIVATION FOR HEALTHY EATING**
P. Enyan, University of Ghana, Accra, Ghana
- PO1153 SAVING FUEL, COST AND PREVENTING ENVIRONMENTAL POLLUTION THROUGH SOLAR COOKING IN MID-DAY MEAL PROGRAMME**
V. Purushothaman, Department of Community Education and Entrepreneurship Development, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, Tamil Nadu, India
- PO1154 NUTRITIONAL STATUS AND ITS DETERMINANTS FOR WOMEN LIVING IN FEMALE HEADED HOUSEHOLDS IN ETHIOPIA: A MULTILEVEL ANALYSIS**
K. Ayalew, Department of Statistics, University of Gondar, Ethiopia
- PO1155 HAS THE IODINE STATUS, KNOWLEDGE AND PRACTICES OF PREGNANT AUSTRALIAN WOMEN IMPROVED SINCE MANDATORY BREAD FORTIFICATION?**
K. Charlton, School of Health Sciences, University of Wollongong, Wollongong, NSW, Australia
- PO1156 FROM RESEARCH TO POLICY IN CHRONIC DISEASE PREVENTION: MANDATORY SALT REDUCTION IN SOUTH AFRICA**
K. Charlton, School of Health Sciences, University of Wollongong, Australia
- PO1157 PREVALENCE AND DETERMINANTS OF ANEMIA AMONG OLDER SCHOOL CHILDREN IN THE VOLTA REGION OF GHANA.**
N. Ziem, Nutrition Consultancy and Advisory Services Limited, Ghana
- PO1158 ADJUSTING PLASMA CONCENTRATIONS OF FERRITIN, RETINOL, AND ZINC AFFECT THE PREVALENCE OF MICRONUTRIENT DEFICIENCIES IN CHILDREN BUT NOT IN WOMEN**
S. Wade, Universite Cheikh Anta Diop De Dakar, Dakar, Senegal
- PO1159 CONCURRENT DEFICIENCIES OF IRON, ZINC AND VITAMIN A IN SENEGALESE WOMEN AGED 15-49 YEARS: A NATIONAL STUDY**
N. Idohou-Dossou, Universite Cheikh Anta Diop de Dakar, Dakar, Senegal
- PO1160 CONCURRENT DEFICIENCIES OF IRON, ZINC AND VITAMIN A IN SENEGALESE INFANTS AGED 12-59 MONTHS: A NATIONAL STUDY**
A. Diouf, Universite Cheikh Anta Diop de Dakar, Dakar, Senegal

- PO1161 ANEMIA AND NUTRITIONAL STATUS OF PRE-SCHOOL CHILDREN IN NORTH GAZA, PALESTINE**
B. Alzain, Al Quds Open University, North Gaza Branch, Palestine
- PO1162 FOODBORNE DISEASES IN BAMAKO**
H. Hami, Laboratory of Genetics and Biometry, Faculty of Sciences, Ibn Tofail University, Kenitra, Morocco
- PO1163 COLLECTIVE FOOD POISONING IN DOUGABOUGOU, MALI**
S K. Coulibaly, Faculty of Medicine, Pharmacy and Dentistry, University of Bamako, Bamako, Mali
- PO1164 EDUCATIONAL LEVEL AND OBESITY ACROSS ADULTS IN ABEOKUTA, OGUN STATE, NIGERIA**
A S. Adekoya, African Graduate of Nutrition Students' Network (AGSNET) Ithaca, New York, USA
- PO1165 EFFECTS OF AGE AND ENERGY EXPENDITURE ON OBESITY AMONG ADULTS IN ABEOKUTA, OGUN STATE, NIGERIA**
A S. Adekoya, African Graduate of Nutrition Students' Network (AGSNET) Ithaca, New York, USA
- PO1166 INFANT YOUNG CHILD FEEDING PRACTICE AND THEIR NUTRITIONAL STATUS IN A NATIONAL NUTRITION PROGRAM AREA**
S. Sultana, Department of Community Nutrition, Bangladesh Institute of Health Science, BSMMU Dhaka, Bangladesh
- PO1167 BODY CONCERNS VARY BETWEEN ACADEMIC BACKGROUNDS: A COMPARISON OF FEMALE FASHION DESIGN AND DANCE STUDENTS**
M. Kagawa, Institute of Nutrition Sciences, Kagawa Nutrition University, Saitana, Japan
- PO1168 KNOWLEDGE AND USE OF FOOD LABEL INFORMATION AMONG URBAN CONSUMERS IN INDIA**
S. Vemula, Food & Drug Toxicology Research Centre, National Institute of Nutrition, Hyderabad, India
- PO1169 NUTRITION GOVERNANCE FOR MATERNAL AND YOUNG CHILD NUTRITION SECURITY IN THE PHILIPPINES**
M. Paunlagui, Center for Strategic Planning and Policy Studies, College of Public Affairs, University of the Philippines, Los Baños, College, Laguna, Philippines
- PO1170 PROMOTING HEALTHY EATING HABITS IN GHANA THROUGH THE PRINT AND ELECTRONIC MEDIA**
W. Letsa, The Trust Hospital, Accra, Ghana
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J. Hemsworth, Department of Population Health, London School of Hygiene and Tropical Medicine, London, UK
- PO1172 FOOD LABELING IN INDIA – A STUDY ON CURRENT SCENARIO OF REGULATION, COMPLIANCE BY INDUSTRY AND CONSUMER PERCEPTIONS**
S R M. Gavaravarapu, Extension & Training Division, National Institute of Nutrition, Jamai, Osmania PO, Hyderabad, India
- PO1173 ALARMING RATE OF ANAEMIA AMONG UNDER TWO YEAR CHILDREN FROM AYEYARWADY DIVISION, MYANMAR**
L M. Hlaing, National Nutrition Center, Ministry of Health, Myanmar, Myanmar
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Y. Aboussaleh, Nutrition and Health laboratory, Ibn Tofail University, Kenitra, Morocco
- PO1176 THE EFFICACY OF EDUCATION ON NUTRITIONAL AND DENTAL CARIES KNOWLEDGE OF OBESE CHILDREN'S PARENTS**
A. Etebarian, Dental School, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- PO1177 PROMOTING EDUCATION AND PROFESSIONAL INSERTION OF WOMEN IS KEY FOR REDUCING THE OBESITY GENDER GAP IN NORTH-AFRICA: EVIDENCE FROM TUNISIA**
J. El Ati, NNTA (National Institute of Nutrition and Food Technology), Tunis, Tunisia
- PO1178 FRUIT CONSUMPTION IS ASSOCIATED WITH LOWER RISK OF DEPRESSION IN MID-AGE WOMEN**
S. Miharshahi, School of Population Health, University of Queensland, Brisbane, Australia
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S. Miharshahi, School of Population Health, University of Queensland, Brisbane, Queensland, Australia
- PO1181 FREQUENCY OF NUT CONSUMPTION AND PREVALENCE OF METABOLIC SYNDROME, OBESITY AND DIABETES IN THE PREDIMED RANDOMIZED TRIAL.**
N. Ibarrola-Jurado, Human Nutrition Unit, Hospital Universitari de Sant Joan de Reus, IISPV, Universitat Rovira i Virgili, Reus, Spain
- PO1182 THE EXTENT AND NATURE OF TELEVISION FOOD ADVERTISING TO CHILDREN IN XI'AN CITY, CHINA**
T. Wang, Department of Epidemiology and Health Statistics, Xi'an Jiaotong University College of Medicine, Xi'an, China
- PO1183 THE IMPACT OF SMOKING ON DIET IN ISRAEL**
E. Mbong, Ministry of Public Health, Yaounde, Cameroon
- PO1184 ACCESS TO AND CHOICE OF FOOD IN A STUDENT RESIDENTIAL AREA: THE CASE OF BONAMOISSADI, CAMEROON**
S. Tabe, Building Bridges Cameroon (BBCAM)
- PO1185 MULTILEVEL CORRELATES OF ANTHROPOMETRIC TYPOLOGIES IN COLOMBIA IN 2005**
D. Parra, Universidad De Los Andes – EpiAndes, Bogota, Colombia
- PO1186 MATERNAL AND FAMILIAL CORRELATES OF ANTHROPOMETRIC TYPOLOGIES IN COLOMBIA IN 2010**
D. Parra, Universidad De Los Andes – EpiAndes, Bogota, Colombia
- PO1187 VITAMIN A SUPPLEMENTATION PROGRAMME IN NIGERIA-CHALLENGES AND PROSPECTS**
I. Onimawo, University, Ekpoma, Nigeria
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N. Katayama, Nagoya Women's University, Food Science and Nutrition, Japan
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E F. Talsma, Division of Human Nutrition, Wageningen University, Wageningen, The Netherlands
- PO1190 BIOFORTIFIED CASSAVA WITH PRO-VITAMIN A IS SENSORY AND CULTURALLY ACCEPTABLE FOR CONSUMPTION BY PRIMARY SCHOOL CHILDREN IN KENYA**
E F. Talsma, Division of Human Nutrition, Wageningen University, Wageningen, The Netherlands
- PO1191 APPETITE TESTING IN HIV-INFECTED AFRICAN ADULTS RECOVERING FROM MALNUTRITION AND GIVEN ANTIRETROVIRAL THERAPY (ART)**
A. Rehman, Faculty of Epidemiology and Population Health, London School of Hygiene and Tropical Medicine, London, UK
- PO1192 ARE THE INCREASES IN BREASTFEEDING DURATION EQUAL WITHIN COUNTRIES? THE FUNDAMENTAL CAUSE CONCEPT BEING TESTED ON 50 COUNTRIES.**
C. Boccolini, Department of Social Nutrition, Rio de Janeiro State University, Brazil

- PO1193 MILK CONSUMPTION OF COLLEGE STUDENTS**
H. Yardimci, Ankara University, Ankara, Turkey
- PO1194 COMPARING PHYSICAL ACTIVITY AND ENERGY EXPENDITURE BETWEEN OBESE AND NON-OBESE PRESCHOOL BOYS OF THE KINDERGARTEN A HANOI IN 2011**
N. Dung, Department of Nutritional Biochemistry and Metabolism, National Institute of Nutrition, Hanoi, Vietnam
- PO1195 PERCEPTION OF CARDIOVASCULAR HEALTH IN AN ADULT POPULATION**
P. Aguilar-Alonso, Posgrado en Ciencias Químicas, Facultad de Ciencias Químicas, Benemerita Universidad Autonoma de Puebla, Puebla, Mexico
- PO1196 BEVERAGES CONSUMPTION: A QUANTITATIVE ANALYSIS ON CHILDREN AND ADOLESCENTS DIET IN BRAZIL**
R. Feferbaum, Department of Pediatrics, Faculty of Medicine, University of Sao Paulo, São Paulo, Brazil
- PO1197 BRAZILIAN CHILDREN AND ADOLESCENTS: WHAT ARE THEY DRINKING?**
R. Feferbaum, Department of Pediatrics, Faculty of Medicine, University of Sao Paulo, São Paulo, Brazil
- PO1198 ANTHROPOMETRIC, BIOCHEMICAL AND LIFESTYLE COMPARISON OF A POPULATION DIAGNOSED WITH DIABETES MELLITUS TYPE II AND A HEALTHY POPULATION**
A. Navarro-Cruz, Facultad de Ciencias Químicas, Benemerita Universidad Autonoma de Puebla, Puebla, Mexico
- PO1199 ASSESSMENT OF THE IMPACT OF ORGANIC SCHOOL MEALS TO IMPROVE THE SCHOOL FOOD ENVIRONMENT AND CHILDREN'S AWARENESS OF HEALTHY EATING HABITS**
C. He, Aalborg University, Copenhagen, Denmark
- PO1200 SHIFTING OF UNDERNUTRITION TO OVERNUTRITION AND ITS DETERMINANTS IN THE LOW TO MEDIUM INCOME COUNTRIES**
A. Mamun, School of Population Health, The University of Queensland, Brisbane, Australia
- PO1201 EVALUATION OF NUTRITION REPORTS BASED ON RESEARCH STUDIES IN POPULAR INDIAN NEWSPAPERS**
M. Maheshwar, National Institute of Nutrition, Indian Council of Medical Research (ICMR), Hyderabad, Andhra Pradesh, India
- PO1202 CAN HYDRATION STATUS IN POPULATIONS BE BETTER ESTIMATED FROM URINE OUTPUT THAN FROM WATER INTAKE?**
S. Gibson, Sig-Nurture Ltd, Guildford, Surrey, UK
- PO1203 EFFECT OF SELECTED DIETARY SUPPLEMENTS ON MICRONUTRIENT STATUS DURING RECOVERY FROM MODERATE ACUTE MALNUTRITION IN YOUNG MALIAN CHILDREN**
R S. Ackatia-Armah, Nutrition and Metabolism, Boston University School of Medicine, Boston, MA, USA
- PO1204 THE COMPLIANCE OF PACKAGED FOOD PRODUCTS IN INDIA WITH NATIONAL AND INTERNATIONAL NUTRITIONAL LABELLING STANDARDS**
E. Dunford, The George Institute for Global Health, Sydney, Australia
- PO1205 ADULTS' CONSUMPTION OF MILK AND DAIRY PRODUCTS IN TURKEY**
A. Uçar, Department of Nutrition and Dietetics, Faculty of Health Sciences, University of Ankara, Ankara, Turkey
- PO1206 FAMILY-BASED INTERVENTION FOR CHILDHOOD OBESITY: AN EXPERIENCE AMONG TEHRANIAN CHILDREN**
F. Esfarjani, Department of Food and Nutrition Policy and Planning Research, National Nutrition and Food Technology Research Institute, Faculty of Nutrition Sciences and Food Technology, Shahid Beheshti University, Tehran, Iran
- PO1207 CALORIE LABELING OF MENUS: A FEASIBILITY STUDY IN A UNIVERSITY CAFETERIA**
J. Sych, Institute of Food and Beverage Innovation, Zurich University of Applied Sciences, Waedenswil, Switzerland
- PO1208 INFLUENCE OF EARLY EXPOSURE TO VITAMIN D FOR LATER DEVELOPMENT OF TYPE 1 DIABETES - THE D-TECT STUDY**
R. Jacobsen, Institute of Preventive Medicine, Frederiksberg Hospital, Frederiksberg, Denmark
- PO1209 FOOD-RELATED LIFESTYLES AND THEIR ASSOCIATION TO PHYSICAL ACTIVITY IN POLAND**
M. Jezewska-Zychowicz, Department of Organization and Consumption Economics, Warsaw University of Life Sciences, Poland
- PO1211 META-ANALYSIS OF DIETARY PATTERNS AND ESOPHAGEAL CANCER RISK**
X D. Liu, School of Public Health and Primary Care, the Chinese University of Hong Kong, Hong Kong, China
- PO1212 ORDERING FOOD ONLINE: THE HABITS OF KUWAIT'S RESIDENTS**
S D. Garduno-Diaz, General Education, American University of The Middle East, Egaila, Kuwait, Kuwait
- PO1213 SCHOOL-BASED INTERVENTION PRACTICES TO REDUCE BODY MASS INDEX: META-ANALYSIS OF 57 RANDOMIZED TRIALS**
P H. Guerra, Programa de pos-graduação em ciências do Instituto Coração da Faculdade de Medicina da Universidade de São Paulo (InCorHCFMUSP) - Cardiologia, São Paulo, Brazil
- PO1214 BOLIVIA AND MALNUTRITION ZERO: EXAMINING ORGANIZATIONAL CAPACITY FOR MULTISECTORAL NUTRITION AGENDAS**
K. Cunningham, London School of Hygiene and Tropical Medicine, London, UK
- PO1215 SUCCESS FACTORS IN INTERVENTIONS AND ACTIVITIES IN THE NEIGHBORHOOD VINKHUIZEN IN GRONINGEN (THE NETHERLANDS) TO PREVENT OVERWEIGHT.**
J. van der Kruk, Professorship in Health Care and Nursing, Groningen, Hanze University of Applied Sciences, The Netherlands
- PO1216 ASSESSING IMPLEMENTATION OF INTEGRATED MANAGEMENT OF ACUTE MALNUTRITION PROTOCOL FOR MANAGEMENT OF ACUTE MALNUTRITION IN PILOTING SITES OF WAKISO DISTRICT**
T. Rwegyema, Institute of health policy and management, International Health Sciences University, Kampala, Uganda
- PO1217 CORRELATING DIET AND LIFESTYLE TO OBESITY IN BULGARIAN SAMPLE**
D. Ivanova, Department of Biochemistry, Molecular Medicine and Nutrigenomics, Medical University Varna, Bulgaria
- PO1218 25-HYDROXYVITAMIN D AND COGNITIVE PERFORMANCE IN MID-LIFE**
J. Maddock, Centre for Paediatric Epidemiology and Biostatistics, Institute of Child Health, University College London, London, UK
- PO1219 VITAMIN D AND COMMON MENTAL DISORDERS IN MID-LIFE: CROSS-SECTIONAL AND PROSPECTIVE FINDINGS**
J. Maddock, Centre for Paediatric Epidemiology and Biostatistics, Institute of Child Health, University College London, London, UK
- PO1220 SERUM FOLATE AND VITAMIN B12 IN ELDERLY CHILEANS. RESULTS FROM THE NATIONAL HEALTH SURVEY 2009-10**
C. Castillo-Lancellotti, Research Group on Community Nutrition and Oxidative Stress, Department of Fundamental Biology and Health Sciences, University of the Balearic Islands, Balearic Islands, Spain
- PO1221 BREASTFEEDING PRACTICE, PARENTAL EDUCATIONAL LEVEL AND STUNTING IN CHILDHOOD**
I. Purnakarya, Faculty of Public Health, Andalas University, Indonesia
- PO1222 DECLINING INEQUALITY IN OBESITY AMONG URBANISED ADULT MEXICAN WOMEN, BUT IT IS NOT GOOD NEWS**
C. Perez Ferrer, Department of Epidemiology and Public Health, University College London, London, UK
- PO1223 BODY SHAPE CONCERNS IN FEMALE COLLEGE STUDENTS: VALIDATION STUDY**
W. Silva, Department Food and Nutrition, area of Nutritional Sciences, Faculty of Pharmaceutical Sciences of Araraquara - State University Julio de Mesquita Filho, Brazil

- PO1224 EFFECT OF FEEDING PRACTICES ON ANTHROPOMETRIC STATUS OF CHILDREN 0-5YEARS IN ORPHANAGES OF ABUJA, NIGERIA**
C. Steve-Edemba, Department of Primary Health Care, FCT Primary health care Board, Federal Capital Territory Abuja, Nigeria
- PO1225 EARLY DETERMINANTS OF CHILDHOOD OBESITY: WHAT FACTORS CONTRIBUTE TO ITS DEVELOPMENT SIMULTANEOUSLY IN URUGUAYAN CHILDREN 6-23 MONTHS?**
F. Peregalli, Master of Nutrition, Catholic University of Uruguay, Montevideo, Uruguay
- PO1226 EFFECT OF A NUTRITION EDUCATION INTERVENTION ON CONSUMPTION OF FRUITS, VEGETABLES AND FISH IN FAMILIES**
G. Fretes, Instituto de Nutricion y Tecnologia de los Alimentos (INTA), Universidad de Chile, Santiago, Chile
- PO1228 IRON AND CANCER RISK - A REVIEW OF THE EPIDEMIOLOGICAL EVIDENCE**
A. Agudo, Unit of Nutrition, Environment and Cancer, Cancer Epidemiology Research Programme, Catalan Institute of Oncology, IDIBELL, Barcelona, Spain
- PO1229 EFFECTIVE GOVERNANCE AND POLICIES TO IMPROVE NUTRITION OUTCOMES: A CROSS COMPARISON OF NINE COUNTRY CASES**
A. Meija Acosta, Governance Team, Institute For Development Studies, Brighton England
- PO1230 THE ALADINO STUDY: A NATIONAL STUDY OF PREVALENCE OF OVERWEIGHT AND OBESITY IN SPANISH CHILDREN IN 2011**
T. Robledo de Dios, Spanish Agency For Food Safety and Nutrition, Spain
- PO1231 ABDOMINAL OBESITY AS PREDICTOR OF OTHER CARDIOMETABOLIC RISK FACTORS. STUDY IN TWO URBAN POPULATION GROUPS: COTONOU (BENIN) AND PORT-AU-PRINCE (HAÏTI)**
A. El Mabchour, TRANSNUT, Department of Nutrition University of Montreal, Canada
- PO1232 EATING BEHAVIOUR PATTERNS AND BMI IN PORTUGUESE HIGHER EDUCATION STUDENTS**
R. Poinhos, Faculdade de Ciências da Nutrição e Alimentação, Universidade do Porto, Porto, Portugal
- PO1234 EXPERIENCES FROM A COMPREHENSIVE COMMUNITY NUTRITION PROGRAM IN TWO DISTRICTS IN KENYA. LESSONS FOR NATIONWIDE MNP SUPPLEMENTATION ROLL OUT**
J. Suryantan, CWS Inc, New York, USA
- PO1235 METHODS OF INFLUENCE: A CONTENT ANALYSIS OF THE CANADIAN FEDERAL MENU LABELLING POLICY COMMUNITY**
M. Smith, Department of Food Science, University of Guelph, Guelph, Ontario, Canada
- PO1236 TRACE ELEMENTS OF COLON CANCER – A CASE CONTROL STUDY**
N. Alfaris, Department of Nutrition and Food Science, Princess Nora University, Riyadh, Saudi Arabia
- PO1237 BOLSA FAMILIA PROGRAM: NUTRITIONAL STATUS AND DIET QUALITY OF WOMEN IN A RURAL AREA OF THE NORTHEAST BRAZIL**
F. Lima, Department of Nutrition, Universidade Federal da Paraíba, Brazil
- PO1238 HIGH PREVALENCE OF HOUSEHOLD LEVEL FOOD INSECURITY AND ITS DETERMINANTS IN AN URBAN SLUM POPULATION IN NORTH INDIA**
K. Yadav, All India Institute of Medical Sciences, New Delhi, India
- PO1239 DEVELOPMENT AND VALIDATION OF A FOOD SELF-EFFICACY SCALE**
R. Poinhos, Faculdade de Ciências da Nutrição e Alimentação, Universidade do Porto, Rua Dr. Roberto Frias, Porto, Portugal
- PO1240 MALNUTRITION AND ITS CORRELATES AMONG PRIMARY SCHOOL CHILDREN IN FOGERA DISTRICT, RURAL ETHIOPIA**
H. Zeleke, Health and nutrition Promotion and Disease prevention Directorate, Federal Ministry of Health, Addis Ababa, Ethiopia
- PO1241 MODIFYING EFFECTS OF MATERNAL NUTRITION STATUS ON THE RESPONSE TO MULTIPLE MICRONUTRIENTS SUPPLEMENTATION ON PRETERM AND NEONATAL MORTALITY IN CHINA**
L. Zeng, School of Public Health, Xi'an Jiaotong University College of Medicine, Xi'an City, Shaanxi Province, China
- PO1242 LIFESTYLE PATTERNS ARE CORRELATED WITH SIGNS OF THE METABOLIC SYNDROME IN KILIMANJARO REGION, TANZANIA**
K M. Demmler, Institute of International Nutrition, Justus-Liebig-University, Giessen, Hessen, Germany
- PO1243 INTERDISCIPLINARY COLLABORATION BETWEEN SOCIAL WORKERS AND DIETICIANS TO IMPROVE NUTRITIONAL STATUS AND LIFE QUALITY OF CHILDREN IN RISK**
A. Garcia Gonzalez, Facultad Farmacia, Universidad CEU-San Pablo, Madrid, Spain
- PO1244 ADULTS' KNOWLEDGE OF FAT AND CHOLESTEROL**
I. S. Akan, Nutrition and Dietetics, Ankara University, Ankara, Turkey
- PO1245 SITUATIONAL ANALYSIS AND EXPERT EVALUATION OF THE NUTRITION AND HEALTH STATUS OF INFANTS AND YOUNG CHILDREN IN SUB-SAHARAN AFRICA**
M. Alles, Danone Research – Centre For Specialised Nutrition, Wageningen, The Netherlands
- PO1246 DIETARY PATTERNS AND COGNITIVE DYSFUNCTION IN A PROSPECTIVE STUDY OF 70-YEAR-OLD SWEDISH MEN**
E. Olsson, Unit of Clinical Nutrition and Metabolism, Department of Public Health and Caring Sciences, Uppsala University, Sweden
- PO1247 A SCHOOL MEAL STUDY: COMPARING PLATE WASTE AND LIKINGS OF PACKED LUNCH AND LUNCH BASED ON THE NEW NORDIC DIET**
A. V. Thorsen, Division of Nutrition, National Food Institute, Technical University of Denmark, Denmark
- PO1248 CONSUMPTION OF MEDITERRANEAN DIET COMPONENTS IS ASSOCIATED WITH LOWER CARDIOVASCULAR RISK. DATA FROM ALIMENTATE SANO, A CROSS-SECTIONAL INTERNET SURVEY**
G. Echeverria, Centro de Nutricion Molecular y Enfermedades Crónicas, Pontificia Universidad Católica, Santiago de Chile, Chile
- PO1249 EAT, SLEEP, WORK, PLAY: RELATIONSHIPS AMONG HEALTH-RELATED BEHAVIORS OF YOUNG ADULTS BY WEIGHT STATUS**
C. Byrd-Bredbenner, Rutgers University, Department of Nutritional Sciences, New Brunswick, USA
- PO1250 A SYSTEMATIC REVIEW AND META-ANALYSIS EXAMINING 'A POSTERIORI' DIETARY PATTERNS AND RISK OF TYPE 2 DIABETES**
C. McEvoy, Centre for Public Health, Queen's University Belfast, Belfast, UK
- PO1251 PHYSICAL ACTIVITY IN PRESCHOOL CHILDREN MEASURED WITH ACTIHEART MONITORS**
C. Viera-Casiñol, Department of Biochemistry and Physiology, Institute of Nutrition, La Habana, Cuba
- PO1252 INTERNATIONAL NETWORK FOR FOOD AND OBESITY/NCD RESEARCH, MONITORING AND ACTION SUPPORT: BENCHMARKING FOOD ENVIRONMENTS TOWARDS HEALTHIER DIETS**
S. Vandevijvere, School of Population Health, Department of Epidemiology and Biostatistics, University of Auckland, New Zealand
- PO1253 THE INFORMAS FRAMEWORK FOR MONITORING AND BENCHMARKING HEALTHY AND UNHEALTHY FOOD AVAILABILITY IN RETAIL FOOD ENVIRONMENTS**
S. Vandevijvere, School of Population Health, Department of Epidemiology and Biostatistics, University of Auckland, New Zealand

- PO1254 EFFECTIVENESS OF COOKING DEMONSTRATION, SMALL ANIMALS AND KITCHEN GARDENS PROMOTION BY COMMUNITY COOPERATIVES ON CHILD NUTRITION, A CASE OF RWANDA**
S. Boltana, Health and Nutrition Department, World Vision International East Africa Region, Ethiopia
- PO1255 EATING DISORDER CHARACTERISTICS AMONG GERMAN MALE AND FEMALE TRIATHLETES**
S. Niessen, Department of Nutritional, Food and Consumer Sciences, Hochschule Fulda, University of Applied Sciences, Fulda, Germany
- PO1256 FACTORS AFFECTING THE REHABILITATION OUTCOME OF SEVERELY MALNOURISHED CHILDREN AMONG SEMI-NOMADIC COMMUNITIES IN SOUTHERN ETHIOPIA**
Y. Gedefa, World Vision Ethiopia, Ethiopia
- PO1257 ANTHROPOMETRIC PROFILE AND PREVALENCE OF OVERWEIGHT AND OBESITY IN A POPULATION OF UNIVERSITY STUDENTS**
R. Ramirez y Ayala, Posgrado en Ciencias Quimicas, Facultad de Ciencias Quimicas, BUAP, Mexico
- PO1258 STUDENT WELLNESS AND ADVOCACY PROJECT: ENGAGING YOUNG MINDS**
S. McWhinney, Prairie View A&M University, Texas, USA
- PO1259 ACUTE RESPIRATORY INFECTIONS IN CHILDREN LIVING IN HIV-AFFECTED COMMUNITIES IN GHANA**
H. Okronipa, School of Dietetics and Human Nutrition, McGill University, Montreal, Quebec, Canada
- PO1261 MALNUTRITION AND ITS RISK FACTORS AMONG PERSONS WITH DISABILITIES IN MALAYSIA**
S T. Chen, Dietetics Program, School of Health Sciences, Universiti Sains Malaysia, Kelantan, Malaysia
- PO1262 DISORDERED EATING, PHYSICAL ACTIVITY, BODY WEIGHT STATUS AND SELF-ESTEEM AMONG FEMALE COLLEGE STUDENTS IN MALAYSIA**
K L. Soo, Nutrition Program, School of Health Sciences, Universiti Sains Malaysia, Kelantan, Malaysia
- PO1263 ASSESSMENT OF FOOD SECURITY STATUS AMONG RURAL AND URBAN HOUSEHOLDS IN KUCHING DISTRICT, SARAWAK, MALAYSIA**
M A B. Wan Azdie, Department of Nutrition Sciences, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Kuantan, Pahang, Malaysia
- PO1264 ETHNIC DIFFERENCES IN ASSOCIATION BETWEEN SERUM VITAMIN D AND PARATHYROID HORMONE CONCENTRATIONS: THE 2008/09 NEW ZEALAND ADULT NUTRITION SURVEY**
C. Skeaff, University of Otago, Dunedin, New Zealand
- PO1265 ASSOCIATIONS OF MATERNAL FOLATE STATUS WITH BIRTH OUTCOMES IN AN ASIAN POPULATION: GROWING UP IN SINGAPORE TOWARDS HEALTHY OUTCOMES (GUSTO)**
L W. Chen, Saw Swee Hock School of Public Health, National University of Singapore, Singapore
- PO1266 KNOWLEDGE, ATTITUDES AND PRACTICES ON FOLIC ACID SUPPLEMENTATION AMONG PREGNANT MOTHERS IN A SRI LANKAN SETTING**
A. Wickramasinghe, Office of The Medical Officer of Health - Mahara, Kadawatha, Sri Lanka
- PO1267 IMPROVEMENT OF PHYSICAL FUNCTIONS AND NUTRITIONAL STATUS IN ELDERLY PERSONS BY LONG-TERM TRAINING FOR PREVENTIVE CARE**
N. Hirano, Department of Food and Nutritional Science, Kobe Women's Junior College, Kobe, Hyogo, Japan
- PO1268 PREVALENCE AND FACTORS ASSOCIATED WITH ANEMIA IN THAI ELDERLY**
P. Putwatana, Ramathibodi School of Nursing, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Thailand
- PO1270 GENDER DIFFERENCES IN FOLATE STATUS OF AN ADULT POPULATION IN GHANA**
M. Asante, Department of Dietetics, School of Allied Health Sciences, University of Ghana, Accra, Ghana
- PO1271 EFFICACY OF A SHORT INTERVENTION PROGRAM TO IMPROVE FRUIT AND VEGETABLE ACCEPTANCE AMONG CHILDREN**
V M. Rodriguez, Nutrition & Obesity Group, University of the Basque Country UPV/EHU, CIBEROBn Physiopathology of Obesity and Nutrition, Vitoria-Gasteiz, Spain
- PO1272 PHYSICAL ACTIVITY LEVEL OF HEALTHY ADULT WOMEN IN VALLADOLID (SPAIN)**
M J. Cao, Instituto Endocrinología y Nutrición (Ienva), Universidad de Valladolid, Spain
- PO1273 EXCESSIVE RED AND PROCESSED MEAT CONSUMPTION IN SÃO PAULO, BRAZIL: DIET QUALITY AND ENVIRONMENTAL IMPACT**
A. Carvalho, Department of Nutrition, Faculdade de Saúde Pública, Universidade de São Paulo, São Paulo, São Paulo, Brazil
- PO1274 NUTRITION OF CHILDREN WITH NEUROLOGICAL DISORDERS AND MENTAL RETARDATION FROM SOCIAL ESTABLISHMENTS IN BULGARIA**
V. Duleva, Department Food and Nutrition, National Centre of Public Health and Analyses, Sofia, Bulgaria
- PO1275 'SALT REDUCTION IS HEALTHY, BUT MY INTAKE IS FINE' INTERNATIONAL RESEARCH REVEALS BARRIERS FOR PROGRESS IN SALT REDUCTION**
R. Newson, Department of Research & Development, Unilever, The Netherlands
- PO1276 DELPHI METHOD TO IDENTIFY EDUCATIONAL MATERIALS ON HEALTHY FOOD FOR TEACHERS, SCHOOL-AGE CHILDREN AND THEIR PARENTS**
F. Vio, Institute of Nutrition and Food Technology (INTA), University of Chile, Chile
- PO1277 CONSUMPTION OF MACRO AND MICRONUTRIENTS IN CHILDREN BETWEEN 6 AND 23 MONTHS OF AGE IN THE HIGHLANDS OF PERU**
A. Vargas, Technical Department, Action Against Hunger Spain, Lima, Peru
- PO1278 IRON DEFICIENCY ANAEMIA IN CHILDREN IN RURAL DISTRICTS OF PERU**
A. Vargas, Technical Department, Action Against Hunger Spain, Lima, Peru
- PO1279 REVIEW OF FOOD-BASED DIETARY GUIDELINES IN LATIN AMERICA AND THE CARIBBEAN AND EMERGING RECOMMENDATIONS**
V. Molina, FAO, Guatemala
- PO1280 THE SCHOOL FRUIT SCHEME IMPACT ON FRUITS AND VEGETABLES CONSUMPTION BY CHILDREN IN POLAND.**
K. Wolnicka, Department of Dietetic and Nutrition in Hospitals with Clinic of Metabolic Diseases and Gastroenterology, National Food and Nutrition Institute, Warsaw, Poland
- PO1281 THE SCHOOL FRUIT SCHEME IMPACT ON SELECTED NUTRITION BEHAVIOURS OF PARENTS IN POLAND**
M. Jarosz, Department of Dietetic and Nutrition in Hospitals with Clinic of Metabolic Diseases and Gastroenterology, National Food and Nutrition Institute, Warsaw, Poland
- PO1282 FOOD KNOWLEDGE AND FOOD CONSUMPTION IN SCHOOL-AGE CHILDREN, PARENTS AND TEACHERS: A COMPARATIVE ANALYSIS**
F. Vio, Institute of Nutrition and Food Technology (INTA) University of Chile, Chile

- PO1283 HOSPITAL SUPPORT FOR MALNOURISHED CHILDREN**
O. Ousmane, Universite de Ouagadougou/UFR-SVT/CRSBAN, Burkina Faso
- PO1284 DO WE NEED TO CORRECT SERUM FERRITIN FOR INFLAMMATION TO ASSESS IRON DEFICIENCY IN OBESITY-RIDDEN SETTINGS? EXAMPLE IN URBAN MOROCCO**
A. Gartner, UMR Nutripass IRD-UM2-UM1, Institut de Recherche pour le Developpement (IRD), Montpellier, France
- PO1285 NUTRITIONAL STATUS IN THE CUBAN POPULATION MORE THAN 15 YEARS OLD OF THE III NATIONAL SURVEY OF RISK FACTORS**
M E. Diaz-Sanchez, Instituto de Nutricion e Higiene de los Alimentos, La Habana, Cuba
- PO1286 EVIDENCE FOR A NEED TO REVIEW CURRENT RECOMMENDATIONS: SEDENTARY BEHAVIOUR AND PHYSICAL ACTIVITY IN URBAN SOUTH ASIAN WOMEN**
I. Waidyatilaka, Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of Colombo, Colombo, Sri Lanka
- PO1287 EFFECTS OF ECONOMIC TRANSITION ON DIETARY FAT INTAKE AMONG CHINESE ADULTS**
B. Zhang, National Institute of Nutrition and Food Safety, Chinese Center For Disease Control and Prevention, China
- PO1288 CONSUMER ACCEPTABILITY AND EFFECTIVENESS OF SIX MENU CALORIE LABELING FORMATS ON FOOD CHOICES USING MOBILE TABLET TECHNOLOGY**
M. Fotouhinia Yepes, Department of Consumer Behavior, ETH Zurich, Zurich, Switzerland
- PO1289 SEASONAL CHANGES IN IRON AND VITAMIN A STATUS AMONG WOMEN IN RURAL SOUTH-EAST PERU**
U. Chavez Zander, Justus Liebig University of Giessen, Giessen, Germany
- PO1290 LOGIC MODEL OF THE INITIATIVE LINKING THE BRAZILIAN NATIONAL SCHOOL FEEDING PROGRAMME AND FAMILY FARMING**
F. Schwartzman, Department of Nutrition, School of Public Health, University of São Paulo, Brazil
- PO1291 PREVALENCE OF INADEQUATE INTAKE OF FOLATE IN BRAZIL AFTER MANDATORY FORTIFICATION: RESULTS FROM THE FIRST NATIONAL DIETARY SURVEY**
D M. Marchioni, Universidade de São Paulo, São Paulo, Brazil
- PO1292 FOLATE AND OTHER ONE CARBON METABOLISM RELATED NUTRIENTS AND RISK OF BREAST CANCER**
D M. Marchioni, Universidade de São Paulo, São Paulo, Brazil
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J. Sharkey, Program For Research In Nutrition and Health Disparities, School of Rural Public Health, TAMHSC, College Station, TX, USA
- PO1294 NIGERIAN WOMEN PARTICIPATING IN AN INTEGRATED MICROCREDIT AND mHEALTH BREASTFEEDING PROMOTION INTERVENTION WERE MORE LIKELY TO ADOPT INTERNATIONAL BREASTFEEDING RECOMMENDATIONS**
V. Flax, Carolina Population Center, University of North Carolina, Chapel Hill, NC, USA
- PO1295 VITAMIN D INTAKES OF CHILDREN DIFFER BY INCOME AND RACE/ETHNICITY IN THE UNITED STATES, 2007 TO 2010**
C. Moore, Texas Woman's University, USA
- PO1296 METABOLIC SYNDROME IN HEALTHCARE PERSONNEL FROM THE UNIVERSITY OF ANTIOQUIA- COLOMBIA: LATINMETS STUDY**
L I. Gonzalez-Zapata, School of Nutrition and Dietetics, University of Antioquia, Medellin, Colombia
- PO1297 THE INFORMAS FRAMEWORK FOR MONITORING FOOD MARKETING TO CHILDREN**
B. Kelly, School of Molecular Bioscience, The University of Sydney, Sydney, Australia
- PO1298 MODELLING HEALTH BENEFITS OF FOLIC ACID FORTIFICATION IN NEW ZEALAND**
M. Gibbs, Science and Risk Assessment, Ministry for Primary Industries, Wellington, New Zealand
- PO1299 EVALUATION OF A COMMUNICATION STRATEGY ON CENTRAL ADIPOSITY**
F. Fontes, Ministerio de Salud, Departamento de Salud Nutricional, Panama, Republic of Panama
- PO1300 LOW BIRTH WEIGHT: COMPARISON OF TWO BIRTH COHORTS IN SÃO LUIS, NORTHEASTERN BRAZIL, 1997/98 AND 2010**
H. Veloso, UFMA, Sao Luis, Brazil
- PO1301 DIETARY HABITS AMONG PRESCHOOL CHILDREN IN SEVERAL AREAS IN JAPAN**
Y. Sato, National Institute for Environmental Studies, Japan
- PO1302 ELEMENTS OF SOCIAL FRANCHISING IMPROVE THE QUALITY OF INFANT AND YOUNG CHILD FEEDING COUNSELING SERVICES IN GOVERNMENT CLINICS IN VIETNAM**
P H. Nguyen, International Food Policy Research Institute (IFPRI), Hanoi, Vietnam
- PO1303 FATTY ACID INTAKES, PLASMA FATTY ACIDS AND MORTALITY: AN AUSTRALIAN PROSPECTIVE STUDY**
K. Miura, Cancer and Population Studies Group, Queensland Institute of Medical Research, Brisbane, Queensland, Australia
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M. Nozue, Center for International Collaboration and Partnership, National Institute of Health and Nutrition, Japan
- PO1305 CHARACTERISTICS OF SOLO-EATING AMONG YOUNG JAPANESE: DIFFERENCES IN MEAL OCCASIONS AND CONTEXTS**
M. Tsubota-Utsugi, Department of Nutritional Epidemiology, National Institute of Health and Nutrition, Tokyo, Japan
- PO1306 ABDOMINAL OBESITY ASSOCIATED TO FOOD INSECURITY IN YOUNG ADULTS FROM TABASCO, MEXICO**
A E. Sierra-Ovando, Centro de Investigacion Division Academica de Ciencias de la Salud, Universidad Juarez Autonoma De Tabasco, Villahermosa, Tabasco, Mexico
- PO1307 CONTRIBUTION OF A SCHOOL MEAL TO ENERGY AND NUTRIENT INTAKES OF SELECT FILIPINO SECONDARY SCHOOL STUDENTS**
I. Angeles-Agdeppa, Department of Science and Technology, Food and Nutrition Research Institute, Philippines
- PO1308 THE INFORMAS FRAMEWORK FOR ASSESSING THE IMPACT OF TRADE AGREEMENTS ON FOOD ENVIRONMENTS AND OBESITY RISK**
S. Friel, National Centre for Epidemiology and Population Health, The Australian National University, Canberra, ACT, Australia
- PO1309 EFFECTS OF EXERCISE TRAINING AND DETRAINING ON FATTY LIVER IN ZUCKER FATTY RATS**
Y. Shiroya, School of Human Ecology, Wayo Women's University, Ichikawa, Chiba, Japan
- PO1310 EFFECTS OF EXERCISE AND DIET RESTRICTION ON THE EXPRESSION OF HEPATIC FAT/CD36 IN ZUCKER FATTY RATS**
Y. Kurosaka, Wayo Women's University, Chiba, Japan
- PO1313 ASSOCIATION OF PHYSICAL ACTIVITY WITH EATING HABITS AND KAUP INDEX IN PRESCHOOL-AGED JAPANESE CHILDREN**
K. Minato, Exercise Physiology, Wayo Women's University, Ichikawa, Chiba, Japan
- PO1314 PROMOTION AND ASSESSMENT OF NUTRITION AND HEALTHY LIFESTYLE IN THE WORKPLACE: PHILIPPINES' DOST EXPERIENCE**
C. Javier, Food and Nutrition Research Institute, Department of Science and Technology, Philippines

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S. Brennan, Centre for Public Health, Institute of Clinical Sciences B, Queen's University Belfast, Northern Ireland, UK
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R.A. Petersen, Department of Nutrition, Exercise and Sports, Faculty of Science, University of Copenhagen, Denmark
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H. Kwon, Seoul National University Hospital Healthcare System Gangnam Center, Korea
- PO1318 THE ATTITUDES, INTENTIONS, PERCEPTIONS AND BEHAVIOUR OF OBESE PEOPLE IN RELATION TO THEIR WEIGHT, WESTERN AUSTRALIA 2009**
C. Pollard, School of Public Health and Curtin Health Innovation Research Institute, Faculty of Health Sciences, Curtin University, Perth, Western Australia, Australia
- PO1319 NNR 2012: NORDIC NUTRITION RECOMMENDATIONS - INTEGRATING NUTRITION AND PHYSICAL ACTIVITY**
W. Becker, National Food Agency, Uppsala, Sweden
- PO1320 INCREASING THE NUTRITIONAL IMPACT OF THE INDONESIAN CONDITIONAL CASH TRANSFER PROGRAM: EVIDENCE FOR SOCIAL PROTECTION POLICY**
A. Usfar, Secretariat of The National Team For The Acceleration of Poverty Reduction, Indonesia
- PO1321 THE EFFECT OF AN INDIVIDUALLY TAILORED NUTRITION INTERVENTION FOR DUTCH PARENTS ON DIETARY INTAKE AND PHYSICAL ACTIVITY OF THEIR CHILDREN**
L. van Lee, Division of Human Nutrition, Wageningen University, The Netherlands
- PO1322 THE IMPORTANCE OF HAVING INTEREST IN COOKING AND VEGETABLES AND FRUIT INTAKE FOR CHEWING CONSCIOUSNESS IN PRIMARY SCHOOLCHILDREN**
N. Tanaka, Faculty of Home Economics, Kobe Women's University, Kobe, Japan
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K. Keller, Department of Biology, Universidad Autonoma de Madrid, Madrid, Comunidad de Madrid, Spain
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E.G. Artero, Area of Physical Education and Sport, Department of Education, University of Almeria, Spain
- PO1325 PERCEPTIONS OF FIRST YEAR STUDENTS ON FRUIT INTAKE AND EXERCISE HABITS**
J. Setorglo, University of Cape Coast, School of Medical Science, Ghana
- PO1326 ACCEPTABILITY OF YELLOW CASSAVA FOR CONSUMPTION BY SCHOOLCHILDREN IN DIDJA, BENIN**
I.D. Brouwer, Division of Human Nutrition, Wageningen University, Wageningen, The Netherlands
- PO1327 IDENTIFICATION OF FACTORS DETERMINING CONSUMPTION OF YELLOW MAIZE BY SCHOOLCHILDREN IN KANDI, NORTHERN BENIN**
I.D. Brouwer, Division of Human Nutrition, Wageningen University, Wageningen, the Netherlands
- PO1328 THE ROLE OF WOMEN AND THE DETERMINANTS OF CHILD NUTRITION IN THE 2009 EXTREME WEATHER EVENTS IN THE PHILIPPINES**
E. Clark, National Centre of Epidemiology and Population Health, Australian National University, Acton, ACT, Australia
- PO1329 SALT CONTENT CONTROL IN PUBLIC MASS CATERING MEALS DEDICATED TO CHILDREN, ADOLESCENTS AND STUDENTS IN THE CITY OF NOVI SAD**
L.J. Trajkovic Pavlovic, Institute of Public Health of Vojvodina, University of Novi Sad, School of Medicine, Novi Sad, Serbia
- PO1330 ADOLESCENTS' VIEWS ABOUT A PROPOSED REWARD INTERVENTION TO PROMOTE HEALTHY EATING IN THE SCHOOL SETTING**
C.T. McEvoy, Centre for Public Health, Queen's University Belfast, UK
- PO1331 QUANTITY AND QUALITY OF FATS IN GLUTEN CONTAINING FOODS COMPARED TO SPECIFICALLY GLUTEN-FREE PRODUCTS**
J. Calvo Lerna, Pediatric Gastroenterology unit, La Fe University Hospital, Valencia, Spain
- PO1332 DIETARY HABITS AND GROWTH: AN URBAN/RURAL COMPARISON IN THE ANDEAN REGION OF APURIMAC, PERU**
L. Boldrini, MSc in Food Science and Human Nutrition, University Campus Bio Medico, Rome, Italy
- PO1333 BMI AND PERCEPTIONS, ATTITUDE AND PRACTICES OF UNDERGRADUATE STUDENTS OF THE UNIVERSITY OF THE FREE STATE, SOUTH AFRICA, REGARDING EXERCISE**
V.L. Van Den Berg, Department of Nutrition and Dietetics, Faculty of Health Sciences, University of The Free State, South Africa
- PO1334 GUADIX, PROMOTING HEALTHY EATING HABITS FROM LOCAL GOVERNMENT**
F. Rivas-Garcia, Ayuntamiento de Guadix, Granada, Spain
- PO1335 TASTE SENSITIVITY AND DIETARY HABIT AMONG SCHOOLCHILDREN IN MIYAZAKI**
H. Shinohara, Faculty of Education and Culture, University of Miyazaki, Miyazaki, Miyazaki, Japan
- PO1336 USING NEW METHODS TO ASSESS COVERAGE OF DECENTRALIZED NUTRITION PROGRAMMES IN COMPLEX EMERGENCIES IN EAST AND THE HORN OF AFRICA**
C. Ouma, Health and Nutrition Learning Centre, World Vision, Kenya
- PO1337 2012 "DON'T GET DEHYDRATED" HEALTH CAMPAIGN**
A. Garcia, National Committee of Nutrition, General Council of Spanish Pharmacists, Madrid, Spain
- PO1338 POST SUPPLEMENTARY AND THERAPEUTIC FOOD DISTRIBUTION AND UTILIZATION MONITORING SURVEY IN WUROR COUNTY, SOUTH SUDAN**
C. Ouma, World Vision, Nairobi, Kenya
- PO1339 RESPONSE EXECUTION/INHIBITION TRAINING WITH FOOD IMAGES ALTERS ON SUBSEQUENT EATING BEHAVIOUR**
K. Kazami, Department of Health and Nutrition, University of Human Arts and Sciences, Saitama, Japan
- PO1340 DIFFERENCES IN BEVERAGE CONSUMPTION STRUCTURE FOR ADULTS IN RELATION TO AGE**
A. Jarosz, Food and Nutrition Institute, Warsaw, Poland
- PO1341 EPILEPSY: ANALYSIS OF NUTRITIONAL STATUS AND SERUM VITAMIN D LEVEL (VIT D)**
P. Jesus, Nutrition Unit, University Hospital, Limoges, France
- PO1342 NUTRITIONAL VULNERABILITY OF UNDER-5 CHILDREN IN URBAN POOR SETTLEMENTS OF DELHI, INDIA: NEED FOR ALIGNING POLICY TO FOOD CONSUMPTION PATTERN**
S. Ghosh-Jerath, Indian Institute of Public Health-Delhi, Public Health Foundation of India, New Delhi, India
- PO1343 BIOAVAILABILITY OF VITAMIN D2 AND D3 IN HEALTHY VOLUNTEERS - A RANDOMIZED TRIAL**
U. Lehmann, Institute of Agriculture and Nutritional Science, Martin-Luther University, Germany

- PO1344 WHICH NUTRIENTS LIMIT CHANGES TO MORE SUSTAINABLE DIETS?**
G. Horgan, Biomathematics & Statistics Scotland, Aberdeen, UK
- PO1345 DIFFERENT HEALTH RELATED BEHAVIORS CONDUCTED BEFORE SCHOOL HOURS IN SEVEN EUROPEAN COUNTRIES – THE ENERGY PROJECT**
M. Roed, Department of Public Health, Sport and Nutrition, University of Agder, Kristiansand, Norway
- PO1346 ASSESSMENT OF THE POTENTIAL IMPACT OF THE NUTRITIONAL COMMITMENTS OF FOOD OPERATORS ON FRENCH NUTRIENT INTAKES**
C. Battisti, French Agency For Food, Environmental and Occupational Health & Safety (Anses), Maisons-Alfort, France
- PO1347 ADHERENCE TO THE DUTCH DIETARY GUIDELINES AND 20-YEAR MORTALITY: THE ROTTERDAM STUDY**
L. van Lee, Division of Human Nutrition, Wageningen, The Netherlands
- PO1348 NEW MEANINGS OF EATING OUT FOR A GROUP OF ELDERLY IN BRASIL**
M C. Carvalho, Universidade Federal do Rio de Janeiro, Universidade do Estado do Rio de Janeiro, Brazil
- PO1349 LIFESTYLES AND RISK FACTORS ASSOCIATED WITH BASELINE ADHERENCE TO THE MEDITERRANEAN DIET IN THE PREDIMED TRIAL**
E. Hu, Department of Nutrition, Harvard School of Public Health, Boston, MA, USA
- PO1350 INCREASE IN BODY MASS INDEX IS ASSOCIATED WITH A WORST LUNG FUNCTION IN SPANISH MEDITERRANEAN SMOKERS WITHOUT RESPIRATORY DISEASE**
M. Sorli, GEPAR Research Group, Unitat de Suport a la Recerca Reus-Tarragona, Institut Universitari D'Investigacio en Atencio Primària Jordi Gol (IDIAP Jordi Gol), Reus, Catalunya, Spain
- PO1351 IRON STORES AND ANAEMIA PREVALENCE AMONG SCHOOL CHILDREN FED COWPEA-BASED FOOD PLUS FISHMEAL WITH VITAMINC-RICH DRINK**
G. Egbi, Nutrition Department, Noguchi Memorial Institute for Medical Research, College of Health Sciences, University of Ghana, Legon, Ghana
- PO1352 STABILITY IN WEIGHT STATUS DESPITE INCREASED SEDENTARY BEHAVIOR AFTER TWO YEAR FOLLOW-UP IN SWEDISH SCHOOLCHILDREN**
L. Moraes, Department of Public Health and Community Medicine, University of Gothenburg, Gothenburg, Sweden
- PO1353 PERCEPTIONS, ATTITUDES AND PRACTICES OF UNDERGRADUATE STUDENTS AT THE UNIVERSITY OF THE FREE STATE REGARDING DIETARY SUPPLEMENTS AND ALTERNATIVE DRINKS**
W. du Toit, Department of Nutrition and Dietetics, University of The Free State, Bloemfontein, South Africa
- PO1354 DOUBLE BURDEN OF MALNUTRITION IN AFRICA**
A. Melse-Boonstra, Division of Human Nutrition, Wageningen University, Wageningen, The Netherlands
- PO1355 DIETARY PATTERNS AND ASSOCIATED HEALTH-RELATED LIFESTYLE FACTORS IN DENMARK**
V K. Knudsen, DTU Food, Søborg, Denmark
- PO1356 MODELLING OF USUAL NUTRIENT INTAKES: POTENTIAL IMPACT OF THE CHOICES PROGRAMME ON NUTRIENT INTAKES IN YOUNG DUTCH ADULTS**
A. Roodenburg, HAS University of Applied Sciences, Den Bosch, The Netherlands
- PO1357 THE EPIC-GRANADA-GIPUZKOA PROJECT ON DIETARY PATTERNS, ANTIOXIDANTS AND BIOMARKERS OF OXIDANT-ANTIOXIDANT STATUS (EUROPEAN PROSPECTIVE INVESTIGATION INTO CANCER AND NUTRITION)**
E. Molina-Montes, Andalusian School of Public Health, Granada, Spain
- PO1358 PREVALENC OF UNDERNUTRITION IN HOSPITALIZED INFANTS IN TABRIZ, IRAN COMPARED TO GLASGOW UK**
S. Milani A, EACH Unit, School of Medicine, MVLS College, University of Glasgow, UK
- PO1359 ASSOCIATIONS BETWEEN DIETARY FATTY ACIDS AND BLOOD LIPIDS IN HEALTHY SOUTH AFRICAN ADULTS: THE PURE STUDY**
M. Richter, Centre of Excellence For Nutrition, North-West University, Potchefstroom, South Africa
- PO1360 EFFECTS OF VITAMIN D3 AND BETA-CAROTENE ON RISK OF ESOPHAGEAL SQUAMOUS CELL CARCINOMA-A CASE-CONTROL STUDY IN CHINA**
G. Huang, Key Laboratory of Environmental Medicine and Engineering of Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing, China
- PO1361 IMPROVED BEHAVIOR IN CHILDREN AGED 3 TO 5 AFTER ONE YEAR OF A SCHOOL-BASED INTERVENTION FOR HEALTHY LIVING**
J L. Peñalvo, Department of Epidemiology, Atherothrombosis and Cardiovascular Imaging, Centro Nacional de Investigaciones Cardiovasculares (CNIC), Madrid, Spain
- PO1362 OPEN (OBESITY PREVENTION THROUGH EUROPEAN NETWORK), STRENGTHENING AND UP SCALING THE IMPLEMENTATION OF COMMUNITY-BASED PROGRAMMES AT EUROPEAN LEVEL**
H. du Plessis, Proteines SAS, Paris, France
- PO1363 STRENGTHS AND WEAKNESSES OF COMMUNITY-BASED PROGRAMMES FOR OBESITY PREVENTION**
H. Du Plessis, EPODE International Network, 109-111 rue Royale, Brussels, Belgium
- PO1364 CHILDHOOD OBESITY PREVENTION : A SIGNIFICANT DECREASE OF OVERWEIGHT PREVALENCE IN TWO PILOT TOWNS OF THE VIASANO PROGRAMME AFTER 2 YEARS OF INTERVENTION**
J M. Borys, EPODE International Coordination, Brussels, Belgium
- PO1365 EPHE (EPODE FOR THE PROMOTION OF HEALTH EQUITY), A 3 YEARS EUROPEAN PROJECT TO PROMOTE HEALTHIER LIFESTYLES AND REDUCE OBESITY-RELATED HEALTH INEQUALITIES**
H. Du Plessis, Proteines SAS, Paris, France
- PO1366 DIETARY INTAKE OF PHYLLQUINONE IS RELATED TO A REDUCED RISK OF ALL-CAUSE MORTALITY: THE PREDIMED STUDY**
M. Juanola-Falgarona, Human Nutrition Unit, Faculty of Medicine and Health Sciences, IISPV, Universitat Rovira I Virgili, Tarragona, Spain
- PO1367 ANTHROPOMETRY AND BLOOD PRESSURE IN 3-5 YEAR OLD CHILDREN OF MADRID: PROGRAM SI! STUDY**
G. Santos-Beneit, Department of Epidemiology, Atherothrombosis and Cardiovascular Imaging, Centro Nacional de Investigaciones Cardiovasculares (CNIC), Madrid, Spain
- PO1368 MEDITERRANEAN DIETARY PATTERNS IN 3-5 YEAR OLD CHILDREN AND THEIR PARENTS: THE PROGRAM SI! STUDY**
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- PO1369 ASSESSING THE CONTINUUM OF THE DELIVERY PROCESS OF AN INFANT AND YOUNG CHILD FEEDING PROGRAM IN ETHIOPIA**
S. Kim, International Food Policy Research Institute, Washington D.C., USA
- PO1370 TRANS FATTY ACIDS IN EUROPEAN DIETS**
T. Mouratidou, Public Health Policy Support Unit, Institute For Health and Consumer Protection (IHCP), Joint Research Centre, European Commission, Ispra, Italy
- PO1371 THE MEDITERRANEAN LIFESTYLE INDEX: A MEASUREMENT INSTRUMENT**
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- PO1372 CONSTRUCT VALIDITY ASSESSMENT OF AN ADAPTED VERSION OF THE SAIN, LIM NUTRIENT PROFILING SYSTEM**
A. Lluch, Danone Research, Palaiseau, France
- PO1373 MEDITERRANEAN DIET AND COGNITIVE FUNCTION: THE SUN PROJECT**
C. Galbete, Department of Preventive Medicine and Public Health, School of Medicine University of Navarra and University of Navarra Clinic, Pamplona, Spain
- PO1374 INSTAPA: IDENTIFYING INNOVATIVE STAPLE FOOD BASED STRATEGIES TO ALLEVIATE MICRONUTRIENT DEFICIENCIES FOR HEALTH AND DEVELOPMENT OF WOMEN AND CHILDREN IN AFRICA**
I.D. Brouwer, Division Of Human Nutrition, Wageningen University, Wageningen, The Netherlands
- PO1375 IDENTIFYING BARRIERS PREVENTING LATINA WOMEN FROM ACCESSING WIC ONLINE NUTRITION INFORMATION**
J. West, Brigham Young University, USA
- PO1376 PHYSICAL ACTIVITY, OBESITY, AND ALL-CAUSE MORTALITY IN THE EPIC STUDY**
H.A. Ward, Department of Epidemiology and Biostatistics, Imperial College London, UK
- PO1377 DOES NUTRITION LABELING HELPS CONSUMERS MAKE HEALTHIER FOOD CHOICES?**
A. Zaragoza, Gabinete de Alimentación y Nutrición (ALINUA), Facultad de Ciencias de la Salud. Universidad de Alicante, San Vicente de Raspeig, Spain
- PO1378 TECHNOLOGY FOR HEALTH: A QUALITATIVE STUDY ON BARRIERS TO USING THE IPAD FOR DIET CHANGE**
J. West, Brigham Young University, Utah, USA
- PO1379 SODIUM REDUCTION POLICIES IN ARGENTINA: AN ANALYSIS OF THE "LESS SALT MORE LIFE" INITIATIVE**
L. Castronuovo, Fundación Interamericana del Corazón, Argentina
- PO1380 THE INFORMAS FRAMEWORK FOR MONITORING FOODS IN PUBLIC SECTOR SETTINGS**
M. L'Abbe, Department of Nutritional Sciences, University of Toronto, Canada
- PO1381 STUDY OF THE EFFECTIVENESS OF AN EDUCATIONAL MODEL TO PREVENT AND CONTROL CHILDHOOD OBESITY**
A.P. Della Santa, Departamento de Nutrición Poblacional, Escuela de Nutrición, Universidad de la República, Montevideo, Uruguay
- PO1382 FACILITATING DECENTRALIZED PROCUREMENT MECHANISM OF GOVERNMENT ENSURING UNINTERRUPTED SUPPLY FOR FULL COVERAGE OF VITAMIN A IN UTTAR PRADESH, INDIA**
A. Jain, Micronutrient Initiative, Lucknow UP, India
- PO1383 FOLLOW-UP OF A GROUP OF POPULATION WHO IS PRESENT AT THE GYMNASIUM. EFFECT OF THE PHYSICAL EXERCISE AND THE DIET**
J. Almansa Perales, Department of Nutrition and Food Science, Faculty of Pharmacy, University of Granada, Granada, Spain
- PO1384 ALCOHOLIC BEVERAGE CONSUMPTION, NUTRIENT INTAKE, BODY WEIGHT AND PHYSICAL ACTIVITY AMONG GHANAIAN ADULT ALCOHOLICS**
S. Klobodu, Department of Nutrition and Food Science, University of Ghana, Legon, Ghana
- PO1385 THE EFFECT OF TTM MODEL ON BREAKFAST EATING PLAN OF NURSES IN THE CENTRAL HOSPITAL OF IRANIAN OIL INDUSTRY**
F. Berahmandpour, Health Research Institute of Petroleum Industry Health Organization, Tehran, Iran
- PO1386 QUALITY OF DISPENSING FOLIC ACID SUPPLEMENTS TO PREGNANT MOTHERS AT FIELD ANTENATAL CLINICS IN A SRI LANKAN SETTING**
A. Wickramasinghe, Office of The Medical Officer of Health - Mahara, Kadawatha, Sri Lanka
- PO1387 EFFECT OF INFORMATION ABOUT THE CALORIC CONTENT ON FOOD CHOICE IN TWO RESTAURANTS IN JALISCO, MEXICO**
M. Guzman, Behavioral Feeding and Nutrition Research Center, Cusur, University of Guadalajara, Mexico
- PO1390 OVERWEIGHT, GENERAL AND CENTRAL OBESITY AND THEIR ASSOCIATION WITH ETHNICITY, DEMOGRAPHICS AND SOCIOECONOMIC STATUS IN IRANIAN WOMEN**
A. Rezaadeh, Community Nutrition Department, Faculty of Nutrition and Food Technology, Shahid Beheshti University of Medical Sciences and Health Services, Tehran, Iran
- PO1391 HOUSEHOLD FOOD SECURITY, DIETARY DIVERSITY, ANEMIA, AND ANTHROPOMETRIC STATUS OF POOR WOMEN FARMERS IN PREY VENG, CAMBODIA: A CROSS-SECTIONAL STUDY**
Z. Talukder, Helen Keller International, Phnom Penh, Cambodia
- PO1392 NUTRITION KNOWLEDGE, ATTITUDES AND CULTURAL PRACTICES OF RURAL WOMEN FARMERS IN PREY VENG PROVINCE, CAMBODIA**
J. McLean, Department of Food, Nutrition and Health, Faculty of Land and Foods, The University of British Columbia, Vancouver, British Columbia, Canada
- PO1393 IT TAKES A VILLAGE: DEVELOPING KEY COMMUNITY-LEVEL MESSAGES TO ADDRESS THE RISE IN STUNTING IN RURAL EGYPT**
J. Kavle, Maternal and Child Health Integrated Program (MCHIP)/Program For Appropriate Technology In Health (PATH), Washington DC, USA
- PO1394 ADEQUATE IODINE INTAKE IN PREGNANT WOMEN COINCIDES WITH MORE-THAN ADEQUATE IODINE INTAKE IN THEIR SCHOOL-AGED CHILDREN IN SOUTHERN INDIA**
N. Jaiswal, St. John's Research Institute, Bangalore, India
- PO1395 OPERATIONS RESEARCH: TRIANGULATION OF DATA COLLECTION METHODS AND ANALYSES TO EXAMINE THE RISE IN STUNTING IN LOWER VERSUS UPPER EGYPT**
J. Kavle, Maternal and Child Health Integrated Program (MCHIP)/Program for Appropriate Technology in Health (PATH), Washington DC, USA
- PO1396 IMPACT OF PHYSICAL ACTIVITY ON ADIPOSITY, ADIPOCYTOKINES AND METABOLIC PARAMETERS IN MEXICAN ADULTS**
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- PO1397 PLASMA LEVELS OF IRON, COPPER, ZINC AND THE ANTHROPOMETRIC NUTRITIONAL STATUS IN AÑU ETHNIC CHILDREN FROM THE SINAMAICA LAGOON, VENEZUELA**
A. Bravo, Laboratory of Research and Development in Nutrition (LIDN), University of Zulia, Venezuela
- PO1398 EVALUATION OF LIFESTYLE OF PEOPLE SELF-PERCEIVED OVERWEIGHT**
O. Vera-Lopez, Departamento de Bioquímica y Alimentos, Facultad de Ciencias Químicas, BUAP, Puebla, Mexico
- PO1399 WHAT DO WE KNOW ABOUT THE FEED-THE-FUTURE INITIATIVE'S PROGRESS TOWARD NUTRITION GOALS? RESULTS OF A GLOBAL LANDSCAPE ANALYSIS**
L. Du, JSI, Rosslyn, VA, USA
- PO1400 A RAPID, INITIAL ASSESSMENT OF THE DISTRIBUTION AND CONSUMPTION OF IRON-FOLIC ACID TABLETS THROUGH ANTENATAL CARE: A COMPARATIVE ANALYSIS**
A. D'Agostino, Strengthening Partnerships, Results and Innovations in Nutrition Globally (SPRING), John Snow International Research & Training, Rosslyn, Virginia, United States
- PO1401 MANAGING THE ZAMBIAN FORTIFICATION PROGRAM PORTFOLIO**
K. Lividini, HarvestPlus, International Food Policy Research Institute, Washington, DC, USA
- PO1402 ASSESSMENT OF THE EFFECTIVENESS OF NUTRIBUTTER® DISTRIBUTION ON ANAEMIA AND STUNTING IN REFUGEE POPULATIONS IN DJIBOUTI AND KENYA**
J. Style, UCL Institute For Global Health, Institute of Child Health, London, UK
- PO1403 MANAGING THE MICRONUTRIENT PORTFOLIO: A CASE STUDY OF ZAMBIA**
J. Fiedler, Poverty, Health, and Nutrition Division, International Food Policy Research Institute, Washington, DC, USA
- PO1404 NEIGHBORHOOD SOCIOECONOMIC DISPARITIES IN THE AVAILABILITY OF HEALTHY FOODS IN SAO PAULO, BRAZIL**
AC. Duran, Public Health Nutrition Graduate Program, School of Public Health. University of Sao Paulo, Brasil
- PO1405 OUT-OF-POCKET HEALTHCARE EXPENDITURE ASSOCIATED TO OBESITY IN BRAZIL: AN EVALUATION BASED ON HOUSEHOLD BUDGET SURVEY 2008-2009**
DS. Canella, Graduate Program in Public Health Nutrition, School of Public Health. University of Sao Paulo, Brazil
- PO1406 EXPLORING WHERE PEOPLE LOOK FOR INFORMATION ABOUT NUTRITION, WESTERN AUSTRALIA 2009 AND 2012**
A. Daly, Curtin University
- PO1407 NUTRITION EDUCATION OF PRE-SCHOOL AND SCHOOL-AGE CHILDREN, FAMILIES AND TEACHERS UTILISING SOCIAL PARTICIPATION WITH INFORMATION AND COMMUNICATION TECHNOLOGIES SALINAS J, CORREA F, GONZALEZ CG, HUENCHUPAN C, MONTENEGRO E, VIO F INSTITUTE OF NUTRITION AN**
J. Salinas, Institute of Nutrition and Food Technology (INTA), University of Chile, Santiago, Chile
- PO1408 PROCESSED AND ULTRA-PROCESSED FOOD PRODUCTS AND OBESITY IN BRAZILIAN HOUSEHOLDS (2008-2009)**
R B. Levy, Department of Preventive Medicine, Faculty of Medicine, University of São Paulo, Brazil
- PO1409 DIETARY PSYCHOLOGICAL, DIETARY ATTITUDES AND DIETARY BEHAVIOR AMONG ADULT FEMALE IN DIFFERENT REGIONS EXPOSED TO WENCHUAN EARTHQUAKE, CHINA**
Y. Zhao, School of Public Health and Management, Chongqing Medical University, Chongqing, China
- PO1410 DIETARY AND LIFE-STYLE FACTORS THAT INFLUENCE THE CHEWING CONSCIOUSNESS IN PRIMARY SCHOOLCHILDREN IN JAPAN**
T. Okuda, Department of Food and Nutrition, Faculty of Human Sciences, Tezukayama Gakuin University, Sakai, Osaka, Japan
- PO1411 RELATIONSHIP BETWEEN MASTICATORY ABILITY AND DIETARY BEHAVIORS IN UNIVERSITY STUDENTS IN JAPAN**
J. Kang, Department of Nutrition, Hyogo NCC College, Nishinomiya, Japan
- PO1412 INFLUENCE OF EATING HABITS ON THE NUTRITIONAL STATUS OF HEALTHCARE PERSONNEL AT THE UNIVERSITY OF ANTIOQUIA- COLOMBIA: LATINMETS STUDY**
J. Diaz-Garcia, School of Nutrition and Dietetics, University of Antioquia, Colombia
- PO1413 TRENDS IN NUTRITIONAL STATUS OF CHILDREN UNDER 5 YEARS OLD FROM 2000-2010 IN HO CHI MINH CITY, VIETNAM**
T T. Minh Hanh, Nutrition Center of Ho Chi Minh City, HCMC, Vietnam
- PO1414 CHANGES IN PHYSICAL STATUS OF CHILDREN IN JAPAN AND STRATEGIES TO ADDRESS CHILDHOOD OBESITY AND UNDERWEIGHT**
R. Sugiura, Faculty of Human Ecology, Wayo Women's University, Ichikawa, Chiba, Japan
- PO1415 THE FEASIBILITY OF MULTISECTORAL POLICIES AIMED AT REDUCING TRANS FAT IN INDIA**
S M. Downs, Menzies Centre for Health Policy, University of Sydney, Sydney, NSW, Australia
- PO1416 REFORMULATING PARTIALLY HYDROGENATED VEGETABLE OILS TO MAXIMISE HEALTH GAINS IN INDIA: AN INDUSTRY PERSPECTIVE**
S M. Downs, Menzies Centre For Health Policy, University of Sydney, Sydney, NSW, Australia
- PO1417 STABILITY AND RETENTION OF MICRONUTRIENTS IN SIX DIFFERENT TYPES OF FORTIFIED RICE PREPARED USING FIVE DIFFERENT COOKING TECHNIQUES**
K. Khov, Dept of Fisheries Post-harvest Technologies and Quality Control (DFPTQ), Fisheries Administration, Ministry of Agriculture Forestry and Fisheries, Phnom Penh, Cambodia
- PO1418 INFORMATION AND COMMUNICATION TECHNOLOGIES IN HEALTH PROMOTION EDUCATION FOR PRIMARY HEALTH CARE**
J. Salinas, Institute of Nutrition and Food Technology INTA University of Chile, Santiago, Chile
- PO1419 A MALAYSIAN RURAL STORY OF WHOLE GRAIN CONSUMPTION AND ITS EFFECTS ON WEIGHT AND BLOOD PRESSURE**
N. Karim, Nutritional Sciences Programme, School of Healthcare Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, 50300 Kuala Lumpur, Malaysia
- PO1420 NUTRITION EDUCATION IN GERMAN AND AUSTRIAN KINDERGARTENS - QUALITATIVE SURVEY OF KINDERGARTEN TEACHERS**
P. Rust, Department of Nutritional Sciences, University of Vienna, Vienna, Austria
- PO1421 COMMUNITY SOCIO-ECONOMIC STATUS INFLUENCES ON DIETARY INTAKE IN SOUTH AFRICAN ADOLESCENTS LIVING IN AN URBAN AREA**
R. Pradeilles, Centre for Global Health and Human Development, SSEHS, Loughborough University, Loughborough, UK
- PO1422 THE GEOGRAPHIC CLUSTERING OF DISTRICTS ACCORDING TO PREVALENCE OF UNDERWEIGHT AMONG UNDER FIVE YEAR CHILDREN IN MADHYA PRADESH, INDIA**
K. Venkaiah, Division of Biostatistics, National Institute of Nutrition, ICMR, India
- PO1423 THE NUTRITION TRANSITION IN NEW GUINEA HIGHLANDERS**
K. Matsumoto, Department of Health, Sports and Nutrition, Kobe Women's University, Japan

- PO1424 UNDERSTANDING AND USE OF THE GUIDELINE DAILY AMOUNTS (GDA) LABEL AMONG ETHNIC GERMAN RESETTLERS**
N. Betke, Department of Food Economics and Consumption Studies, University of Kiel, Germany
- PO1426 ADDRESSING ACUTE AND CHRONIC MALNUTRITION IN ETHIOPIA: CHALLENGES TO FINDING THE POLICY BALANCE**
D. Ali, International Food Policy Research Institute, Washington DC, USA
- PO1427 HOUSEHOLD FOOD INSECURITY IS ASSOCIATED WITH CHILD UNDERNUTRITION IN BANGLADESH, ETHIOPIA AND VIETNAM**
D. Ali, International Food Policy Research Institute, Washington DC, USA
- PO1428 IMPROVEMENT IN STUNTING IN A COHORT OF CHILDREN 2 YEARS OLD ENROLLED IN A HEALTH PROGRAM WITH LNS IN MALI**
S. Shepherd, Operations Department, Medecins Sans Frontieres, Paris, France
- PO1429 INCREASED HEIGHT AND COGNITION AFTER CONSUMPTION OF FORTIFIED MILK**
I. Angeles-Agdeppa, Department of Science and Technology, Food and Nutrition Research Institute, Philippines
- PO1430 CHRONOTYPE AND DIETARY HABITS IN JAPANESE UNIVERSITY STUDENTS**
N. Komenami, Department of Food and Nutrition, Kyoto Women's University, Kyoto, Japan
- PO1431 COMPARISON OF PREVALENCE OF OBESITY, DIABETES AND SMOKING IN CHILEAN WOMEN OF CHILDBEARING AGE BETWEEN 2003 AND 2009**
M. Araya Bannout, Instituto de Nutricion y Tecnologia de los Alimentos, Santiago de Chile, Chile
- PO1432 PARASITE INFESTATION AND ANTHROPOMETRIC STATUS IN CAMBODIAN SCHOOL CHILDREN**
M. Fiorentino, Institut de Recherche pour le Developpement, Montpellier, France
- PO1433 MEDITERRANEAN ALCOHOL-DRINKING PATTERN AND THE RISK OF CARDIOVASCULAR MORTALITY: THE SUN PROJECT**
A. Gea, Department of Preventive Medicine & Public Health, University of Navarra, Spain
- PO1434 LINKING NUTRITION, HUMAN RIGHTS AND GOVERNANCE FOR NUTRITION POLICY: COLLABORATIVE CAPACITY DEVELOPMENT IN UGANDA, SOUTH AFRICA AND NORWAY**
P O. Iversen, Department of Nutrition, Institute of Basic Medical Sciences, Faculty of Medicine, University of Oslo, Norway
- PO1435 EFFECTIVENESS OF OFFERING KEYHOLE LABELLED MEALS IN IMPROVING THE NUTRITIONAL QUALITY OF LUNCH MEALS EATEN IN WORKSITE CANTEENS**
A D. Lassen, Division of Nutrition, National Food Institute, Technical University of Denmark, Copenhagen, Denmark
- PO1436 STUNTING AND ANEMIA ARE PREVALENT IN CAMBODIAN SCHOOL CHILDREN AND AFFECT COGNITIVE PERFORMANCE**
M. Perignon, UMR Nutripass, Institut de Recherche pour le Developpement (IRD), Montpellier, France
- PO1437 HOW DOES A SHIFT TOWARDS A MORE SUSTAINABLE FOOD CONSUMPTION PATTERN AFFECT NUTRIENT INTAKE OF DUTCH CHILDREN?**
E H M. Temme, National Institute for Public Health and the Environment (RIVM), Bilthoven, The Netherlands
- PO1438 PREVALENCE OF DISORDERED EATING AMONG MALAYSIAN ADOLESCENTS AGED 12 TO 19 YEARS OLD**
Y S. Chin, Universiti Putra Malaysia
- PO1440 RELATIONSHIP BETWEEN HABITUAL GRAINS CONSUMPTION AND THE PRESENCE OF NON-ALCOHOLIC FATTY LIVER DISEASE (NAFLD)**
M. Kontogianni, Department of Nutrition & Dietetics, Harokopio University, Greece
- PO1441 CLASSROOM TRAINING OF SCHOOLCHILDREN IN OBESITY PREVENTION: IMPLEMENTATION AND MONITORING OF THE PESOEH PROJECT**
M. Galvan, Institute of Health Sciences, Universidad Autonoma del Estado De Hidalgo, Mexico
- PO1442 COST ANALYSIS FOR INTEGRATED MANAGEMENT OF ACUTE MALNUTRITION IN UGANDA: CASE STUDY FOR PAJULE HEALTH CENTER IV PADER DISTRICT**
R. Muhumuza, Diet Clinic Limited, India
- PO1443 ALCOHOLIC BEVERAGE PREFERENCE AND DIET IN THE NETHERLANDS**
D. Sluik, Section Epidemiology & Public Health, Division of Human Nutrition, Wageningen University, the Netherlands
- PO1444 WHAT AILS MICRONUTRIENT INTERVENTION PROGRAMMES IN KENYA?**
A. Makokha, Jomo Kenyatta University of Agriculture and Technology, Kenis, Kenya
- PO1445 FOOD ENVIRONMENT CHARACTERISTICS AND HEALTH IMPLICATION AMONG CHINESE ADULTS**
W W. Du, National Institute of Nutrition and Food Safety, China CDC
- PO1447 ASSOCIATION BETWEEN ENERGY DENSITY AND DIET COST IN CHILDREN**
A P. Faria, Faculty of Nutrition and Food Sciences, University of Porto, Porto, Portugal
- PO1448 MICRONUTRIENT ADDED FOODS ANALYSIS IN COLOMBIA: VOLUNTARY FORTIFICATION CONTEXT**
E. Carvajal, Universidad de la Sabana, Chia, Colombia
- PO1449 DOUBLE BURDEN OF MALNUTRITION AND DIETARY DIVERSITY IN SAME DISTRICT, TANZANIA**
Y. Kolodziej, Institute of International Nutrition, Justus Liebig-University Giessen, Germany
- PO1450 THE EFFECTS OF PHYSICAL ACTIVITY AND DIETARY MANAGEMENT IN ADULTS WITH METABOLIC SYNDROME IN A RURAL DISTRICT IN MALAYSIA: AN INTERVENTION STUDY**
WM. Wan Abdul Manan, Program in Nutrition, School of Health Sciences, Universiti Sains Malaysia, Kelantan, Malaysia
- PO1451 CONTRIBUTION OF BEVERAGES TO ENERGY INTAKE AND BALANCE IN A SAMPLE OF GENERAL POPULATION IN GREECE**
M. Kapsokefalou, Agricultural University of Athens, Greece
- PO1453 NUTRITIONAL CONTENT OF FOOD, AND NON-ALCOHOLIC BEVERAGES ADVERTISEMENTS BROADCASTED IN COLOMBIAN PUBLIC NATIONAL TELEVISION**
D M. Mejia Diaz, School of Nutrition and Dietetics, University of Antioquia, Medellin, Colombia
- PO1454 TIME TRENDS CHANGES IN THE CONSUMPTION OF PROCESSED AND ULTRA-PROCESSED FOOD AND DRINK PRODUCTS DURING THE 20TH CENTURY IN CANADA**
J C. Moubarac, School of Public Health, University of São Paulo, São Paulo, Brazil
- PO1455 VERY LOW MICRONUTRIENT INTAKE ADEQUACY OF WOMEN IN RURAL BANGLADESH IS EXPLAINED BY LIMITED DIVERSITY OF NUTRIENT-RICH FOODS**
J. Arsenault, Food and Nutrition Policy Research Program, RTI International, Research Triangle Park, NC, USA
- PO1456 EVALUATION OF SODIUM CONTENT IN PROCESSED FOODS IN ARGENTINA**
L. Allemandi, Fundacion InterAmericana del Corazon-Argentina, Buenos Aires, Argentina
- PO1457 CHANGES IN DAILY WATER INTAKE IMPACT MOOD OF HIGH AND LOW DRINKERS**
I. Guelinckx, Hydration and Health Department, Danone Research, Palaiseau, France

- PO1458 FOOD INSECURITY, ACCULTURATION AND ASSOCIATED DEMOGRAPHIC FACTORS AMONG MIGRANTS TO AUSTRALIA**
R. Ramsey, Queensland University of Technology, Australia
- PO1459 ASSOCIATIONS BETWEEN FOOD INSECURITY, DIET AND OBESITY AMONG THE AUSTRALIAN POPULATION**
R. Ramsey, Queensland University of Technology, Australia
- PO1460 CONSUMPTION OF ULTRA-PROCESSED FOODS: EVIDENCE FROM MALAYSIA**
A. Ali, Department of Food Science, Universiti Terengganu Malaysia (UMT)
- PO1461 INNOVATION IN HEALTH PROMOTION EDUCATION: TEACHING NUTRITION TO FUTURE PHYSICIANS**
S. Pati, Indian Institute of Public Health Bhubaneswar, PHFI, India
- PO1462 INFANT AND YOUNG CHILD NUTRITION PROMOTION ACTIVITIES IN BURKINA FASO: ANALYSIS OF COVERAGE IN 2011**
L. Deart, Institut de Recherche pour le Developpement (IRD) - UMR204 Nutripass IRD, UM2, UM1, Burkina Fasso
- PO1463 ASSOCIATION BETWEEN METABOLIC SYNDROME AND BREAST DENSITY IN PREMENOPAUSAL CHILEAN WOMEN**
A. Martinez, Public Health Unit, Institute of Nutrition and Food Technology, University of Chile
- PO1464 AFRICAN STAKEHOLDER VIEWS OF RESEARCH OPTIONS TO REDUCE MALNUTRITION IN SUB-SAHARAN AFRICA**
M. Holdsworth, School of Health and Related Research-SchHARR, University of Sheffield, Sheffield, UK
- PO1465 PHYSICAL BURDEN OF STUDENTS FROM THE MAIN SCHOOL OF FIRE SERVICE (MFSF) DURING "ADJUST TO WORKING TOGETHER" FIELD EXERCISES.**
J. Bertrandt, Military Institute of Hygiene and Epidemiology, Warsaw, Poland
- PO1466 MATERNAL EDUCATION AND DECISION MAKING POWER MODIFY HOW CHILDREN 0-24 MO BENEFIT FROM HOUSEHOLD DIETARY DIVERSITY IN EASTERN BURUNDI**
J. L. Leroy, Poverty, Health and Nutrition Division, International Food Policy Research Institute, Washington DC, USA
- PO1467 FOOD CHOICES AND PERCEIVED BARRIERS TO HEALTHY EATING IN EGYPT**
S. Wahba, National Research Center, Egypt
- PO1468 TOLEDO AREA STUDY: RELATIONSHIP BETWEEN PHYSICAL ACTIVITY AND CARDIOVASCULAR RISK FACTORS IN ADOLESCENTS**
J. M. Martinez-Sesmero, Pharmacy Department Virgen de la Salud Hospital, Toledo, Spain
- PO1469 ASSOCIATIONS BETWEEN BODY MASS INDEX AND BREAKFAST CONSUMPTION IN CANADIAN ADULTS**
S. I. Barr, Food, Nutrition & Health, University of British Columbia, Vancouver, BC, Canada
- PO1470 IMPACT OF NUTRITION IMPROVEMENT THROUGH COMMUNITY EMPOWERMENT (NICE) PROJECT ON NUTRITION INDICATORS IN MAKASSAR, INDONESIA**
A. Thaha, School of Public Health, Kampus UNHAS Tamalanrea, Makassar 90245, Indonesia
- PO1471 NUTRITIONAL STATUS TREND OF INDONESIAN UNDER FIVE CHILDREN IN 2007-2010 AND POSSIBLE ACHIEVEMENT OF MDG TARGET IN 2015**
A. Thaha, School of Public Health, Kampus UNHAS Tamalanrea, Makassar 90245, Indonesia
- PO1472 IS SECULAR TREND IN HEIGHT DELAYING OVERWEIGHT RAISE AMONG ADOLESCENTS? THE BRAZILIAN CASE**
W. L. Conde, Department of Nutrition, School of Public Health, University of Sao Paulo, Brazil
- PO1473 CHANGES IN THE PREVALENCE OF CHILD UNDERNUTRITION AND OVERNUTRITION IN NIGERIA FROM 1990-2008**
O. Adeyemi, Division of Nutritional Sciences, Cornell University, Ithaca, New York, U.S.A.
- PO1483 IMPACT OF SOLAR POWERED IRRIGATION ON FOOD SECURITY, WATER SECURITY AND INCOME IN THE DISTRICT OF KALALE OF NORTHERN BENIN**
H. Alaofe, University of Arizona, College of Public Health, USA
- PO1474 THE STRATEGIC CAPACITY TO ADDRESS THE DOUBLE BURDEN OF MALNUTRITION AND DISEASE IN NIGERIA**
O. Adeyemi, Division of Nutritional Sciences, Cornell University, Ithaca, New York, U.S.A.
- PO1475 WHEN IS A HEALTHY DIET NOT A SUSTAINABLE DIET?**
J. Macdiarmid, University of Aberdeen, Aberdeen, UK
- PO1476 COMMUNICATING THE CONCEPT OF HEALTH, ENVIRONMENTALLY SUSTAINABLE DIETS: DEVELOPMENT OF AN INTERACTIVE EDUCATIONAL TOOL**
J. Macdiarmid, University of Aberdeen, Aberdeen, UK
- PO1477 EFFECT OF PHYSICAL ACTIVITY AND NUTRITIONAL EDUCATION ON BLOOD PRESSURE AND LIPID PROFILE IN A PEDIATRIC POPULATION**
J. J. Muros, Department of Nutrition and Food Science, University of Granada, Granada, Spain
- PO1478 FOOD SECURITY AND NUTRITIONAL STATUS AMONG ORPHANS AND OTHER VULNERABLE CHILDREN IN JOMORO DISTRICT, GHANA**
G. Otoo, Department of Nutrition and Food Science, University of Ghana, Legon, Accra, Ghana
- PO1479 PHYSICAL ACTIVITY, BIOCHEMICAL AND ANTHROPOMETRIC PROFILE AMONG HEALTH-CARE PROFESSIONALS (UNIVERSITY OF ANTIOQUIA, COLOMBIA). LATINMETS STUDY**
G. Deossa-Restrepo, School of Nutrition and Dietetics, University of Antioquia, Medellin, Colombia
- PO1480 PROMOTING HEALTHY LIFESTYLE USING COMPLEX COMMUNITY-BASED APPROACH FOR AT-RISK POPULATIONS OF DIABETES IN THAILAND: FORMATIVE EVALUATION**
K. Sranacharoenpong, Institute of Nutrition, Mahidol University, Nakhon Pathom, Thailand
- PO1482 A HIGH FAT, HIGH GI, LOW FIBRE DIETARY PATTERN IS ASSOCIATED WITH INCREASED TYPE 2 DIABETES RISK IN BRITISH ADULTS**
S. Pastorino, MRC Unit For Lifelong Health and Ageing, London, UK
- PO1484 GLYCEMIC INDEX AND GLYCEMIC LOAD AND RISK OF MORTALITY: THE PREDIMED STUDY**
I. Castro-Quezada, Department of Clinical Sciences, University of Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain
- PO1485 LOW PHYSICAL FITNESS SCORE ASSOCIATED TO CARDIOVASCULAR HEALTH FACTORS IN CHILEAN SCHOOL CHILDREN FORM SIX TO 14 YEARS OLD**
G. Salazar Rodriguez, Energy Metabolism Laboratory. Institute of Nutrition and Food Technology, University of Chile, Santiago, Chile
- PO1486 REDUCING ADDED SALT IN VEGETABLE SOUP: HEDONIC IMPACT IN ELDERLY AND PRE-SCHOOL CHILDREN**
C. Gonçalves, Faculty of Nutrition and Food Sciences, University of Porto, Portugal
- PO1487 THE COST OF HOME DELIVERY SCHEMES FOR LIPID-BASED NUTRIENT SUPPLEMENT PRODUCTS: A POLICY EXPERIMENT FROM RURAL MALAWI**
S. Vosti, Department of Agricultural and Resource Economics, University of California, Davis, Davis, CA, USA

- PO1488 EFFECTS OF ALTERNATIVE SPATIAL DISTRIBUTION SCHEMES ON HOUSEHOLD ACCESS COSTS OF LIPID-BASED NUTRIENT SUPPLEMENTS: CASE STUDY IN RURAL BURKINA FASO**
S. Vosti, Department of Agricultural and Resource Economics, University of California, Davis, Davis, CA, USA
- PO1489 EPIDEMIOLOGY OF FOOD POISONING IN CHILDREN**
F. Hadrya, Laboratory of Genetics and Biometry, Faculty of Sciences, Ibn Tofail University, Kenitra, Morocco
- PO1490 STAPHYLOCOCCUS AUREUS IN DAIRY PRODUCTS AND FOOD POISONING IN MOROCCO**
F. Hadrya, Laboratory of Genetics and Biometry, Faculty of Sciences, Ibn Tofail University, Kenitra, Morocco
- PO1492 CONSTRUCTION AND ON-LINE PUBLICATION OF A DATABASE OF WORLDWIDE FOOD AND NUTRITIONAL GUIDES AND BENCHMARKS**
G. Botelho, Coimbra College of Agriculture, Polytechnic Institute of Coimbra, Coimbra, Portugal
- PO1493 POLICY IMPLICATION OF QUALITATIVE EXPLORATION OF STAKEHOLDERS PERSPECTIVES ABOUT INTEGRATION OF ESSENTIAL NUTRITION ACTIONS/INTERVENTIONS INTO NIGERIA HEALTH SYSTEM**
O. Anjorin, Department of Human Nutrition, University of Ibadan, Ibadan, Oyo State, Nigeria
- PO1494 SITUATIONAL ANALYSIS OF NATIONAL POLICY ON FOOD AND NUTRITION IN NIGERIA**
O. Anjorin, Department of Human Nutrition, University of Ibadan, Ibadan, Oyo State, Nigeria
- PO1495 EFFECT OF MEDITERRANEAN DIET COMPONENTS ON SELECTED CARDIOVASCULAR RISK FACTORS, ALL-CAUSE MORTALITY AND CARDIOVASCULAR MORTALITY: SYSTEMATIC REVIEW**
Y. Yuliana, Newcastle University, Newcastle, UK
- PO1497 WHAT IS THE OBESITY PREVALENCE OF NORTHERN CYPRUS?**
C. Gezer, Near East University, Faculty of Health Sciences, Department of Nutrition and Dietetics, Turkey
- PO1498 URBAN GHANAIAN CHILDREN WITH LESS PHYSICAL ACTIVITY ARE MORE PRONE TO OVERWEIGHT/OBESITY**
E. Colecraft, Department of Nutrition and Food Science, University of Ghana, Ghana
- PO1499 VOLUME AND PATTERNS OF PHYSICAL ACTIVITY IN RURAL CAMBODIAN CHILDREN AGED 15-MONTHS**
M. Ogden, Department of Human Nutrition, University of Copenhagen, Copenhagen, Denmark
- PO1500 INTAKE OF PROCESSED AND ULTRA-PROCESSED FOOD PRODUCTS IN BRAZIL AND THEIR IMPACT ON OVERALL DIET QUALITY**
M. L. Louzada, School of Public Health/University of Sao Paulo, Brazil
- PO1501 NUTRITIONAL CONDITION, INTESTINAL PARASITOSIS AND LEUKOGRAM OF NURSERY CHILDREN IN SERRINHA, JUAZEIRO AND SALVADOR (BRAZIL)**
M. F. Brazil dos Santos Souto, Estado de Bahia University, Brazil
- PO1502 EFFECT OF RECOMMENDED PHYSICAL ACTIVITY DOSE ON OBSTETRICAL, NEONATAL AND MATERNAL METABOLIC OUTCOMES IN PREGNANT LATINA WOMEN**
R. Ramirez-Velez, Grupo GICAEDS. Facultad de Cultura Fisica, Deporte y Recreacion, Universidad Santo Tomas, Colombia
- PO1503 HOW MUCH LAND IS REQUIRED TO PRODUCE A HEALTHY DIET WITH REDUCED GREENHOUSE GAS EMISSIONS IN THE UK?**
J. Kyle, University of Aberdeen, Aberdeen, UK
- PO1504 FOOD ADVERTISING AND MEDIA: HOW DO THEY INFLUENCE DIETARY BEHAVIOR?**
E. Alexiou, University of Thessaly, Greece
- PO1505 DESIGN OF A WORKPLACE INSTRUMENT FOR HEALTH MEASURE, HEALTHY LIFESTYLE PROMOTION, SURVEILLANCE OF CARDIOVASCULAR RISK FACTORS AND METABOLIC SYNDROME DIAGNOSIS**
Z. Lopez, Occupational Health and Safety Department, Cementos Progreso S.A., Guatemala
- PO1506 ENTEROPARASITOSIS PRESENCE IN LOW RENT 2 TO 6 SIX YEAR OLD CHILDREN IN SALVADOR NURSERY (BAHIA)**
R. Brazil dos Santos Souto, Granada University, Granada, Spain
- PO1507 EFFECTIVENESS OF COMMUNITY INTERVENTIONS FOR THE REDUCTION OF DIETARY SALT INTAKE: A SYSTEMATIC REVIEW**
A. Christoforou, Food Policy Group, The George Institute for Global Health, Sydney, NSW, Australia
- PO1508 FAMILY FARMING AND SCHOOL FEEDING: STRATEGY FOR PROMOTING HEALTHY EATING?**
C. R. P. A. Teo, Universidade Comunitaria da Região de Chapeco/Unochapeco, Chapeco, Brasil
- PO1509 THE PRICE OF FOOD FROM FAMILY FARMING CAN INHIBIT THEIR PARTICIPATION IN PUBLIC SCHOOL MEALS**
CRPA. Teo, Universidade Comunitaria da Região de Chapeco/Unochapeco, Chapeco, SC, Brasil
- PO1510 A STUDY ON LIFESTYLE AND DIETARY BEHAVIORS OF ELEMENTARY STUDENTS INVOLVED IN EXTRACURRICULAR ACTIVITIES IN KOREA**
K. J. OH, Major in Nutrition Education, Graduate School of Education, Kongju National University, Yesan, Chungnam, South Korea
- PO1511 BARRIERS TO VITAMIN A CAPSULE COVERAGE IN HARD TO REACH AREAS: FINDINGS FROM THE CHITTAGONG HILL TRACTS, BANGLADESH**
E. Roy, Helen Keller International, USA
- PO1512 DIGITAL FOOD GUIDE: MOBILE APPLICATION TO INCORPORATE HEALTHY FOOD CHOICES**
S. Caivano, Department of Public Policies and Collective Health, Federal University of São Paulo, Brazil
- PO1513 ASSOCIATION BETWEEN ENVIRONMENTAL FACTORS OF SHOPPING AND NUTRITIONAL STATUS IN JAPANESE AGED OVER 65 YEARS**
Y. Kimura, Department of Nutrition and Life Science, Fukuyama University, Fukuyama, Hiroshima, Japan
- PO1514 HEALTHY FEEDING IN TEENAGERS: HOW TO PROMOTE IT? INTERDISCIPLINARY EDUCATIONAL EXPERIENCE MADE FROM COLLEGE TO THE COMMUNITY, SANTA FE, ARGENTINA**
G. Blaser, Facultad De Bioquímica Y Ciencias Biológicas, UNL, Santa Fe, Argentina
- PO1515 EATING BEHAVIOR AND BODY IMAGE AMONG MEDICINE STUDENTS**
M. L. Bosi, Faculty of Medicine, Federal University of Ceará, Brazil
- PO1516 CHILEAN SCHOOLCHILDREN WITH THE LOWEST SOCIOECONOMIC LEVEL HAVE THE WORST NUTRITIONAL STATUS AND PHYSICAL FITNESS**
M. Suarez-Reyes, Institute of Nutrition and Food Technology, University of Chile
- PO1517 SUGAR CONSUMPTION AMONG CHILDREN AGED 3-6 YEARS OLD AND ITS RELATED FACTORS IN JAKARTA 2011**
S. Bardosono, Medical Research Unit, Faculty of Medicine University of Indonesia, Jakarta, Indonesia
- PO1519 EFFECT OF BLACK-RICE EXTRACTS INTAKE AND EXERCISE ON THE BODY COMPOSITION OF RAT**
T. Watanabe, Department of Human Health Science, Hachinohe Gakuin University, Hachinohe, Japan
- PO1520 INTENSIVE COUNSELING BY HEALTH WORKERS IMPROVED INFANT AND YOUNG CHILD FEEDING KNOWLEDGE AND PRACTICES IN A LARGE-SCALE PROGRAM IN BANGLADESH**
K. Saha, International Food Policy Research Institute (IFPRI), Dhaka, Bangladesh

- PO1521 A COMPREHENSIVE TRAINING AND SUPERVISION PROGRAM IMPROVED FRONTLINE HEALTH WORKERS' KNOWLEDGE OF INFANT AND YOUNG CHILD FEEDING IN RURAL BANGLADESH**
K. Saha, International Food Policy Research Institute (IFPRI), Dhaka, Bangladesh
- PO1522 FORMATIVE RESEARCH FOR THE DEVELOPMENT OF A HOME FORTIFICATION PROGRAMME FOR CHILDREN IN ZAMBIA**
Z. Daly, Department of Food, Nutrition & Health, Faculty of Land & Food Systems, University of British Columbia, Vancouver, British Columbia, Canada
- PO1523 SALT INTAKE AND EDUCATION LEVELS IN ADULTS OF MONGOLIA**
B. Jamiyan, National Center of Public Health, Ulaanbaatar, Mongolia
- PO1524 PREVALENCE OF METABOLIC SYNDROME IN MEXICAN ADULTS. RESULTS OF THE NATIONAL HEALTH AND NUTRITION SURVEY OF STATE WORKERS AND RETIRED**
M A. Ortiz-Rodriguez, Departamento de Salud Publica, Facultad de Medicina, Universidad Nacional Autonoma de Mexico, Mexico
- PO1526 LOW PREVALENCE OF INTRA-INDIVIDUAL DOUBLE BURDEN OF MALNUTRITION IN URBAN TUNISIAN CHILDREN**
J. El Ati, National Institute of Nutrition and Food Technology. LR12SPO5: Nutritional Surveillance and Epidemiology in Tunisia, Tunisia
- PO1527 ASSOCIATION BETWEEN PHYSICAL ACTIVITY AND LIVER ENZYMES IN ADOLESCENTS: THE HELENA STUDY**
J. Ruiz, University of Granada, Granada, Spain; and Karolinska Institutet, Sweden
- PO1528 PCBS AND HEAVY METALS EXPOSURE AMONG FISHERMEN IN MALAYSIA**
A. Azlan, Universiti Putra Malaysia
- PO1529 DECLINING OF HOUSEHOLD INCOME LEADS TO A CHANGE IN NUTRITION - FINDINGS FROM CASE STUDIES OF GIESSEN, GERMANY**
J. Yildiz, Department of Nutrition Education and Consumer Behaviour, Institute of Nutritional Sciences, Justus-Liebig-University of Giessen, Germany
- PO1531 PHYSICAL ACTIVITY OF STUNTED, UNDERWEIGHT AND WASTED MALAWIAN CHILDREN**
A. Pulakka, Department of International Health, University of Tampere, Tampere, Finland
- PO1532 TEMPERAMENT TRAITS AND FOOD INTAKE IN THE HELSINKI BIRTH COHORT STUDY**
A M. Tiainen, Department of Chronic Disease Prevention, National Institute for Health and Welfare, Helsinki, Finland
- PO1533 ECOLOGICAL RISK FACTORS OF OVERWEIGHT WOMEN IN INDONESIA: IMPLICATIONS FOR NUTRITION AND WELLNESS CHANGING BEHAVIORS**
R. Diana, Department of Community Nutrition, Faculty of Human Ecology, Bogor Agricultural University, Indonesia
- PO1534 FACTORS ASSOCIATED WITH NUTRITIONAL STATUS IN ELDERLY LIVING IN TWO CITIES OF CENTRAL AFRICA: THE EDAC STUDY**
P. Jesus, INSERM UMR1094, Tropical Neuroepidemiology, Limoges, France
- PO1535 NUTRITION KNOWLEDGE AND FOOD CHOICE BEHAVIOUR AMONG GHANAIS: IMPLICATIONS FOR HEALTHY LIFESTYLE PROMOTION**
F. Hayford, Department of Dietetics, School of Allied Health Sciences, University of Ghana, Korle-bu, Accra-Ghana
- PO1537 LAW AND LAW PROJECTS REGARDING HEALTHY SNACK STAND REGULATION IN ARGENTINA**
P. Gomez, Centro De Estudios Sobre Nutricion Infantil (CESNI), Ciudad Autonoma de Buenos Aires, Buenos Aires, Argentina
- PO1538 MILK AND DAIRY PRODUCTS CONSUMPTION IN ARGENTINA**
M E. Zapata, Centro De Estudios Sobre Nutricion Infantil (CESNI), Ciudad Autonoma de Buenos Aires, Buenos Aires, Argentina
- PO1539 EXCLUSIVE BREASTFEEDING. EFFECT ON GROWTH AMONG CHILDREN BELOW TWO YEARS IN MALAWI**
J. Kuchenbecker, Justus Liebig University Giessen, Germany
- PO1540 COMPLEMENTARY FEEDING PRACTICES AND THEIR POTENTIAL DETERMINANTS IN INDONESIA: A REVIEW OF LITERATURE**
J. Februhartanty, EAMEO Regional Center for Food and Nutrition (RECFON) Universitas Indonesia
- PO1541 DOUBLE BURDEN OF MALNUTRITION IN CASABLANCA**
A. Jafri, Ben M'sik Faculty of Science, Universite Hassan II Mohamedia Casablanca
- PO1542 DETERMINANTS OF CHILD CHRONIC MALNUTRITION IN THE PROVINCE OF VILCASHUAMAN IN THE CENTRAL PERUVIAN HIGHLANDS**
L. Espejo, Technical Department, Action Against Hunger Spain, Lima, Peru
- PO1543 INEQUALITIES IN THE AVAILABILITY OF FOOD STORES AND FOOD ACQUISITION PATTERN OF FAMILIES LIVING IN URBAN AREAS OF SANTOS, BRAZIL**
G M. Vedovato, Nutritional Epidemiology Laboratory, Federal University of Sao Paulo, Santos, SP, Brazil
- PO1544 SEASONAL UNCONDITIONAL CASH TRANSFERS AND WASTING IN NIGER**
B. Fenn, Emergency Nutrition Network, Oxford, UK
- PO1545 CORRELATES OF FRUIT AND VEGETABLE CONSUMPTION AMONG 11-YEAR OLD SCHOOLCHILDREN: RESULTS FROM THE PRO GREENS PROJECT IN PORTUGAL**
B. Pereira, Faculty of Nutrition and Food Sciences, University of Porto, Porto, Portugal
- PO1546 TEACHERS' PERCEPTIONS OF AN INTERVENTION PROGRAM TO PROMOTE FRUIT AND VEGETABLE CONSUMPTION IN SCHOOLCHILDREN**
B. Pereira, Faculty of Nutrition and Food Sciences, University of Porto, Porto, Portugal
- PO1547 FOOD, BELIEFS AND THEMATICAPPEALS IN ADVERTISEMENTS OF BRAZILIAN MAGAZINES**
M. Costa, Instituto de Nutrição, Universidade do Estado do Rio de Janeiro, Brasil
- PO1548 SCHOOL FOOD POLICY AND EVIDENCE - AN INTERNATIONAL APPROACH**
M. Nelson, Children's Food Trust, Sheffield, UK
- PO1549 PREDICTORS OF INFANT OVERWEIGHT IN A RURAL AND URBAN AREA OF THE ECUADORIAN HIGHLANDS**
J. Ortiz, NutriFOODchem unit, Department of Food Safety and Food Quality, Faculty of Bioscience Engineering, Ghent University, Belgium
- PO1550 FACTORS ASSOCIATED WITH NUTRITIONAL SUPPLEMENTS CONSUMPTION BY EXERCISE PRACTITIONERS IN SÃO LUIS, BRAZIL**
H J F. Veloso, UniCEUMA, Brazil
- PO1551 CONSUMPTION OF PROCESSED AND ULTRA-PROCESSED FOOD AND DRINK PRODUCTS IN THE USA, 2007-08**
L G. Baraldi, Department of nutrition, Universidade de São Paulo, São Paulo, São Paulo, Brazil
- PO1552 VALIDATION STUDY OF WEIGHT CONCERNS SCALE APPLIED TO COLLEGE STUDENTS**
J. Dias, Department of Food and Nutrition, Faculty of Pharmaceutical Sciences of Araraquara - State University Julio De Mesquita Filho, Brazil

- PO1553 ULTRA-PROCESSED FOOD AND DRINK PRODUCTS AND OBESITY: A NEW HYPOTHESIS, AND EVIDENCE**
C A. Monteiro, Department of nutrition, Universidade de São Paulo, São Paulo, São Paulo, Brazil
- PO1554 WORLDWIDE FOOD AND NUTRITIONAL PICTORIAL REPRESENTATIONS**
S. Rodrigues, Coimbra College of Agriculture, Polytechnic Institute of Coimbra, Coimbra, Portugal
- PO1555 CHILDREN AND MOTHERS' PERCEPTION ON ACTUAL AND DESIRED HEALTHY BODY SHAPE IN URBAN INDONESIA**
H. Hardinsyah, Food and Nutrition Society of Indonesia, and Department of Community Nutrition, Bogor Agricultural University, Kampus IPB, Jl Raya Darmaga, Bogor, Indonesia
- PO1556 HOUSEHOLD DETERMINANT OF MALNOURISHED IN PREGNANCY DUE TO LOWER ENERGY AND PROTEIN INTAKE (REANALYZED INDONESIAN BASIC HEALTH SURVEY IN 2007 DATA)**
D. M. Dachlan, SPH, Hasanuddin University, Indonesia
- PO1557 ESTIMATE OF THE NUTRITIONAL STATUS AND DIETARY INTAKE OF ADULT PEOPLE LIVING WITH HIV/AIDS IN DHAKA**
K. Ferdouse, Bangladesh Breastfeeding Foundation, Institute of Public Health, Dhaka, Bangladesh
- PO1558 RISK FACTORS ANALYSIS FOR MALNUTRITION OF PLHIV OF BANGLADESH**
K. Ferdouse, Bangladesh Breastfeeding Foundation, Institute of Public Health, Dhaka, Bangladesh
- PO1559 PERCEPTION AND INVOLVEMENT OF WOMEN'S GROUPS IN FOOD MANAGEMENT TOWARDS CREATING A HEALTH TOURISM COMMUNITY**
N. Sikhiram, Home and Community Division, Faculty of Humanities, Chiangmai University, Thailand
- PO1560 RELATIONSHIP BETWEEN HAND WASHING WITH SOAP AND STUNTING AMONG CHILDREN <2 YEARS FROM BANGLADESH**
L. Unicomb, International Centre for Diarrhoeal Disease Research, Bangladesh
- PO1561 COMPARISON OF THE NUTRIENT DENSITY OF LUNCHES EATEN BY FRENCH CHILDREN ACCORDING TO MEAL LOCATION: SCHOOL CANTEN OR HOME**
P. Pinard, Nutritional Epidemiology Risk Assessment Department French Agency for Food, Environmental and Occupational Health and Safety, Maisons-Alfort, France
- PO1562 HEALTHKICK: VALIDATION OF KNOWLEDGE, ATTITUDES AND BEHAVIOUR CONSTRUCTS RELATING TO HEALTHY EATING AND PHYSICAL ACTIVITY IN SOUTH AFRICAN SCHOOL CHILDREN**
Z. Abrahams, Population Health, Health Systems and Innovation, Human Sciences Research Council, Cape Town, South Africa
- PO1563 LONG-TERM ACCEPTABILITY OF LNS (LIPID-BASED NUTRIENT SUPPLEMENTS) FOR INFANTS IN MALAWI**
U. Ashorn, Department of International Health, School of Medicine, University of Tampere, Tampere, Finland
- PO1564 LUNCH-MEAL CHOICES; IMPLICATIONS TO HEALTH OF CORPORATE WORKERS COMPARED TO ARTISANS**
R K. Steele-Dadzie, Department of Dietetics, School of Allied Health Sciences, University of Ghana
- PO1565 EVALUATING THE IMPACT OF A SCHOOL-BASED INTERVENTION ON THE DIETARY ADEQUACY OF LEARNERS FROM LOW-INCOME SETTINGS IN SOUTH AFRICA**
Z. Abrahams, Population Health, Health Systems and Innovation, Human Sciences Research Council, Cape Town, South Africa
- PO1566 PERCEPTIONS OF BODY WEIGHT AND HEALTH RISKS AMONG PRIMARY SCHOOL EDUCATORS IN THE WESTERN CAPE, SOUTH AFRICA**
L. Dalais, Population Health, Health Systems & Innovation, Human Sciences Research Council (HSRC), Cape Town, South Africa
- PO1567 IMPLICATIONS OF FREQUENT LIVER CONSUMPTION AMONG PREGNANT WOMEN FROM A LOW SOCIO-ECONOMIC SOUTH AFRICAN COMMUNITY**
M. Van Stuijvenberg, South African Medical Research Council, Cape Town, South Africa
- PO1568 EFFECTING IMPROVEMENT IN FOOD BEHAVIOUR THROUGH AN EDUCATIONAL INTERVENTION: RESULTS OF AN IN-DEPTH STUDY IN SCHOOL CHILDREN**
D. Prakash, DOS, Food Science and Nutrition, University of Mysore, Mysore, India
- PO1569 WALKING OUTDOORS FOUR TIMES WEEKLY FOR AT LEAST 15 MINUTES IS ASSOCIATED WITH LONGEVITY IN A COHORT OF VERY ELDERLY PEOPLE.**
C. Fortes, Clinical Epidemiology Unit, IDI-IRCSS, Rome, Italy
- PO1572 RELATIONSHIP BETWEEN NUTRITIONAL STATUS AND SLEEP DURATION IN CHILEAN SCHOOL-AGE CHILDREN**
S. Duran, Universidad Autonoma de Chile, Department of Health, Santiago, Chile
- PO1573 HEALTH PROMOTING LIFESTYLE OF UNDERGRADUATES AT SELÇUK UNIVERSITY, TURKEY**
N. Aktas, Department of Nutrition Education, University of Selcuk, Konya, Turkey
- PO1574 PROMOTING HEALTHY LIFESTYLES: CULTURAL AND PARTICIPATORY APPROACH**
R. Zarate, Universidad Industrial de Santander UIS, Bucaramanga, Santander, Colombia
- PO1575 DIAGNOSIS OF NUTRITIONAL AND FOOD STATUS OF THE STOCKS OF COLORADO AND INFLUENCE AREAS AT CAMPO ESCUELA COLORADO PROJECT - PARTICIPATORY ACTION RESEARCH (PAR) PORPUSE FROM UNIVERSIDAD INDUSTRIAL DE SANTANDER - COLOMBIA**
C. Monsalve, Universidad Industrial de Santander UIS, Bucaramanga, Santander, Colombia
- PO1576 NUT CONSUMPTION AND DECREASED RISK OF TOTAL MORTALITY IN THE SUN PROJECT**
A. Fernandez Montero, Department of Occupational Medicine, University of Navarra, Pamplona, Spain
- PO1577 THE COST OF MEETING DIETARY GUIDELINES IN LOW-INCOME FAMILIES OF BRAZIL**
C. Borges, School of Public Health, Sao Paolo, Brazil
- PO1578 THE ROLE OF DIETARY PATTERNS IN CORONARY ARTERY DISEASE IN URBANISED BLACK SOUTH AFRICANS**
R. Dolman, Centre of Excellence for Nutrition (CEN), North West University, Potchefstroom, South Africa
- PO1579 UNDERNUTRITION IN COLOMBIAN SCHOOL CHILDREN WITH INTESTINAL PARASITES**
N. Muñoz, Grupo de Investigacion GASTROHNUP, Universidad del Valle, Cali, Colombia
- PO1580 BODY MASS INDEX IN CHILDREN WITH ATIPIC GASTROESOPHAGEAL REFLUX DISEASE GIVEN BY OTOLARYNGOLOGY**
N. Muñoz, Grupo de Investigacion GASTROHNUP, Universidad del Valle, Cali, Colombia
- PO1581 DEVELOPMENT OF FIRST (FOOD-BASED INTERVENTION AND PSYCHOSOCIAL STIMULATION) CURRICULUM FOR MOTHERS WITH CHILDREN UNDER 2-YEARS IN LOMBOK, INDONESIA**
R. Kolopaking, SEAMEO RECON (Regional Center for Food and Nutrition), Universitas Indonesia, Indonesia
- PO1582 EGGS, IODINE AND IRON SUPPLEMENTATION IMPROVE COGNITIVE ABILITY OF ELEMENTARY SCHOOL CHILDREN WHO SUFFER IODINE DEFICIENCY DISORDERS IN INDONESIA**
T. Sudargo, Department Nutrition and health, Faculty of Medicine, Gadjah Mada University, Yogyakarta, Indonesia

- PO1583 URBAN AGRICULTURE AS A STIMULUS TO URBAN PLANNING IN DEVELOPING CITIES FOR SUSTAINABLE FOOD AND NUTRITION SECURITY**
V. Obatolu, Obafemi Awolowo University Institute of Agricultural Research and Training, Ibadan, Nigeria
- PO1584 ENERGY AND MACRONUTRIENTS INTAKE IN BRAZIL: RESULTS OF THE FIRST NATIONWIDE INDIVIDUAL DIETARY SURVEY**
R. Pereira, Departamento de Nutrição Social e Aplicada, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil
- PO1585 CLUSTERING OF RISK FACTORS RELATED TO LIFESTYLE AMONG ADOLESCENTS FROM CUIABA, CENTRAL-WESTERN BRAZIL**
R. Pereira, Departamento de Nutrição Social e Aplicada, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil
- PO1586 SODA CONSUMPTION AMONG ADOLESCENTS FROM PUBLIC AND PRIVATE SCHOOLS, RIO DE JANEIRO, BRAZIL**
R. Pereira, Departamento de Nutrição Social e Aplicada, Universidade Federal Do Rio De Janeiro, Brazil
- PO1587 AWAY FROM HOME EATING AND SKIPPING MEALS AND DIETARY SALT AND OIL INTAKES OF ADULTS IN BEIJING, CHINA**
F. Zhang, Department of Nutrition and Food Safety, Fangshan District Center For Diseases Control and Prevention, China
- PO1588 EFFECTS OF DIETARY RESTRICTION ABOVE PHYSICAL ACTIVITY**
V. Aguilera, Behavioral Feeding and Nutrition Research Center University of Guadalajara- University Center From The South, Mexico
- PO1589 CHINESE DIET BALANCE INDEX AND DIETARY QUALITY AMONG ADULTS IN BEIJING, CHINA**
J. Qin, Department of Nutrition and Food Safety, Xuanwu District Centre For Disease Prevention and Control, China
- PO1590 TRENDS AND PATTERNS OF HEALTH BEHAVIORS IN LIAONING, CHINA, 1991-2006**
Z. Zhao, Institute of Nutrition and Food Safety, Liaoning Center For Disease Control and Prevention, China
- PO1591 NUTRITION TRANSITION IN JIANGSU, CHINA, 1989-2009**
B. Yuan, Department of Nutrition, Jiangsu Center For Disease Prevention and Control, China
- PO1592 AWAY FROM HOME EATING IN HUNAN, CHINA, 1989-2009**
J. Liu, Department of Nutrition and Chronic Disease Prevention, Hunan Center For Disease Control and Prevention, China
- PO1593 AN INTERVENTION STUDY ON REDUCING ANIMAL FOOD INTAKE AND INCREASING PHYSICAL ACTIVITY**
S. Zhao, Institute of Nutrition and Food Safety, Guizhou Center For Disease Control and Prevention, China
- PO1594 EFFICACY OF DIFFERENT FORTIFIED GRUELS ON THE RECOVERY FROM MODERATE ACUTE MALNUTRITION IN BURKINABE 6-23-MONTH-OLD CHILDREN**
T. Traore, GRET, NUTRIFASO Program, Ouagadougou, Burkina Faso
- PO1595 INTERVENTION IN RURAL SCHOOL TO PROMOTE HEALTHY LIFESTYLES**
C. Valenzuela, Nutricion y Dietetica, Facultad de Farmacia, Universidad de Valparaiso, Valparaiso, Chile
- PO1596 LIFESTYLE AND DIETARY FACTORS ASSOCIATED WITH THE EVOLUTION OF CARDIOMETABOLIC RISK OVER FOUR YEARS IN WEST-AFRICAN ADULTS: THE BENIN STUDY**
C. Sossa, Regional Institute of Public Health, Ouidah, Benin
- PO1597 RAPID ASSESSMENTS ON REFERRAL LINKAGE BETWEEN OTP AND TFU IN OROMIA REGION, ETHIOPIA**
M. Nakamori, JICA COBANA Project, Addis Ababa, Ethiopia
- PO1599 CREATING AND CALIBRATING MODELS OF FOOD-BORNE EPIDEMICS**
T. Nowicki, Military University of Technology, Warsaw, Poland
- PO1600 THE METHOD FOR FINDING OPTIMAL SANITARY INSPECTORS SCHEDULES**
T. Nowicki, Military University of Technology, Warsaw, Poland
- PO1602 IMPACT EVALUATION OF THE NUTRITIONAL SUPPORT PROGRAM (PAL BY ITS SPANISH ACRONYM) ON FOOD DIVERSITY AND CONSUMPTION OF IRON-RICH OR IRON-FORTIFIED FOODS IN 6-23 MONTH-OLD CHILDREN**
M. J. Ramirez, Ministry of Health of Ecuador, Ecuador
- PO1603 DIETARY TRANS FATTY ACIDS INTAKE AND ITS RELATION TO LIPOPROTEIN (A) LEVEL IN A SAMPLE OF ADULTS IN WEST JAVA, INDONESIA**
R. Sartika, Department of Public Health Nutrition, University of Indonesia, Indonesia
- PO1604 PROTEIN DENSITY, BODY WEIGHT, ECONOMIC STATUS AND MOTHERS HEIGHT ARE RISK FACTORS OF STUNTING AMONG INDONESIAN YOUNG CHILDREN**
A. W. Hayati, Nutrition Department of Pontianak Health Polytechnic, Indonesia
- PO1605 COMMUNITY AND PROGRAM PERFORMANCE IN THE SUPPORT OF BREASTFEEDING PRACTICES IN PASEBAN VILLAGE, PERI URBAN, CENTRAL JAKARTA**
A. Dwita, Seameo- Recfon, Jakarta, Indonesia
- PO1606 NUTRITIONAL CARE IN BRAZILIAN PUBLIC HEALTH SYSTEM: DEVELOPMENT OF AN INSTRUMENT TO ASSESS ACTIONS IN PRIMARY HEALTH CARE**
M. A. Tavares de Medeiros, Department of Health, Clinical and Institutions, Universidade Federal de São Paulo, Brazil
- PO1607 INTERACTION OF PHYSICAL ACTIVITY AND NUTRITION STATUS OF CHILDREN OF PUBLIC AND PRIVATE SCHOOLS IN MEXICO**
C. Calvo, Instituto Nacional de Ciencias Medicas y Nutricion Salvador Zubiran, Mexico, D.F., Mexico
- PO1608 GENETICALLY REDUCED PHYTATE STAPLE CEREAL GRAINS TO INCREASE IRON AND ZINC INTAKE IN SUB-SAHARAN AFRICA - THE CASE OF SORGHUM**
J. Kruger, Institute for Food, Nutrition and Well-being and Department of Food Science, University of Pretoria, Pretoria, Gauteng, South Africa
- PO1609 LOW CALORIE- AND CALORIC-SWEETENED PRODUCTS: DIETARY QUALITY AND DIETARY PATTERNS OF U.S. HOUSEHOLD CONSUMERS FROM 2000-2010**
C. Piernas, Department of Nutrition, University of North Carolina, Chapel Hill, USA
- PO1610 PROFILE OF THE PUBLIC HEALTH NUTRITION WORKFORCE IN FIVE HIGH BURDEN STUNTING COUNTRIES: CONSTRAINING AND ENABLING FACTORS**
M. Tharaney, SPRING Project, Helen Keller International, Arlington, USA
- PO1611 SUPPLEMENTATION WITH LOW-DOSE, LIPID-BASED NUTRIENT SUPPLEMENTS INCREASES IRON RESERVES AND HEMOGLOBIN, BUT NOT VITAMIN A STATUS, OF YOUNG BURKINABE CHILDREN**
S. Abbeddou, Department of Nutrition, University of California Davis, Davis, California, USA
- PO1613 MATERNAL ACTIONS AND PROBLEMS IN MANAGING THE CHILD'S WEIGHT AND THEIR ASSOCIATION WITH THE MATERNAL PERCEPTION OF THE CHILD'S WEIGHT IN MEXICAN DYADS**
Y. Flores-Peña, Universidad Autonoma de Nuevo Leon - Facultad de Enfermeria, Mexico

- PO1614 IMPACT OF NUTRITION EDUCATION INTERVENTION ON APPROPRIATE FOOD SELECTION OF RURAL MOTHERS IN EHA-AMUFU, ISI-UZO L.G.A I**
O. Mbah, University of Nigeria, Nsukka, Nigeria
- PO1615 DEVELOPMENT OF NUTRITION EDUCATION PACKAGE ON CHILD CARE AND FEEDING PRACTICES FOR RURAL WOMEN IN ENUGU STATE, NIGERIA: A POSITIVE DEVIANT APPROACH**
O. Mbah, University of Nigeria, Nsukka, Nigeria
- PO1616 CAPACITY DEVELOPMENT (CD) IN NUTRITION IN CENTRAL AND EASTERN EUROPE (CEE)**
M. Gurinovic, Centre of Research Excellence In Nutrition and Metabolism, Institute For Medical Research University of Belgrade, Serbia
- PO1617 PUBLIC PRIVATE SECTOR PARTNERSHIP ON SUPPORTING THE SCALING UP NUTRITION (SUN) MOVEMENT: PROPOSE MODEL FOR INDONESIA**
A. Riyanti, Indonesian Danone Institute Foundation, Jakarta, Indonesia
- PO1618 WASHING THE FOODSTUFFS OF SEEDS, PROMOTING THE HEALTH LEVEL, A PROPOSAL FOR LEGISLATION OF NATIONAL STANDARD OF FOOD SAFETY**
X. Han-You, China Academy of Management Science, Clinical Institute, Workers Hospital of Nanyang Textile Corporation, Nanyang City, Henan Province, China
- PO1619 FAMILY FEEDING PRACTICES IN 0-4 CHILDREN WITH PREVENTABLE PATHOLOGIES BACKGROUND**
E A. Garcia, Facultad de Bromatologia, Universidad Nacional de Entre Rios, Gualeguaychu, Entre Rios, Argentina
- PO1620 EFFECT OF A FORTIFIED OIL AND FLOUR PROGRAM IN COTE D'IVOIRE ON MICRONUTRIENT STATUS OF PRE-SCHOOL CHILDREN AND WOMEN**
S. Jungjohann, GAIN - Global Alliance for Improved Nutrition, Geneva, Switzerland
- PO1621 PERCEPTIONS OF CHILDHOOD MALNUTRITION AND HEALTH SEEKING BEHAVIOUR IN RURAL BIHAR, INDIA: A QUALITATIVE STUDY**
D. Burtscher, Medecins Sans Frontieres, Vienna, Austria
- PO1623 NUTRITIONAL STATUS OF WOMEN OF REPRODUCTIVE AGE AND PREGNANT AND LACTATING WOMEN (PLW) IN BIRAU BLOCK, DARBHANGA DISTRICT, BIHAR, INDIA**
E. Marino, Medecins Sans Frontieres, New Delhi, India
- PO1624 EFFECT OF CHANGING ADMISSION CRITERIA FROM W/H<-3 AND/OR MUAC<110MM TO EXCLUSIVELY MUAC<115MM ON CMAM PROGRAMME INDICATORS IN BIHAR, INDIA**
S. Burza, Medecins Sans Frontieres, New Delhi, India
- PO1625 EFFECT OF W/H Z-SCORE ON DEMOGRAPHIC, ANTHROPOMETRIC AND PROGRAMME INDICATORS OF SEVERE ACUTE MALNOURISHED(SAM) CHILDREN ADMITTED WITH MUAC<115MM IN COMMUNITY-MANAGEMENT-OF-ACUTE-MALNUTRITION (CMAM) PROGRAMME IN BIHAR, INDIA**
S. Burza, Medecins Sans Frontieres, New Delhi, India
- PO1626 SCALING UP NUTRITION IN TANZANIA: ACHIEVEMENTS, CHALLENGES AND WAY FORWARD**
J. Kaganda, Tanzania Food and Nutrition Centre, Dar es Salaam, Tanzania
- PO1627 IS THE BODY WEIGHT LOSS PREDICTED BY THE NEGATIVE ENERGY BALANCE PRESCRIBED?**
M A. Rojo-Tirado, Department of Health and Human Performance, Technical University of Madrid, Madrid, Spain
- PO1628 BASAL METABOLIC RATE: VALIDATION OF A POPULATION-SPECIFIC EQUATION FOR BRAZILIANS**
V. Wahrlich, Departamento de Nutrição Social, Universidade Federal Fluminense, Niteroi, Brasil
- PO1629 DIETARY INTERVENTION IMPROVES HEALTH AND NUTRITIONAL STATUS OF HOSPITALIZED CHILDREN WITH PROTEIN ENERGY MALNUTRITION**
M. Ismail, Faculty of Home Economics, Minufiya University, Egypt
- PO1630 DETERMINANTS OF OVERWEIGHT AMONG INDONESIAN TEENAGE FEMALES**
V. Melani, Department of Community Nutrition, Faculty of Human Ecology, Bogor Agricultural University, Bogor, West Java, Indonesia
- PO1631 EFFICACY OF IRON FORTIFIED RICE IN VIETNAM**
T. Pham Van, NIN, Hanoi, Vietnam
- PO1632 COMPETENCY REQUIREMENTS OF PUBLIC HEALTH NUTRITIONISTS: STABILITY OF CONSENSUS OVER A DECADE**
R. Hughes, Bond University, Gold Coast, Australia
- PO1633 KNOWLEDGE AND PRACTICES OF COMMUNITY HEALTH AGENTS: HEALTHY EATING AND WALKING IN PREGNANCY**
M B. Malta, Department of Public Health, Botucatu Medical School, UNESP, Botucatu, Brazil
- PO1634 DEVELOPMENT OF FOOD PYRAMID FOR VEGETARIAN IN INDONESIA**
A. Setiarini, Department of Public Health Nutrition, Faculty of Public Health, University of Indonesia
- PO1635 THE EFFECT OF TRAINING DELIVERY METHOD ON THE COMPETENCIES OF COMMUNITY HEALTH WORKERS IN COMMUNICATING SAFE COMPLEMENTARY FEEDING**
D N. Iswarawanti, Southeast Asian Ministers of Education Organization (SEAMEO) Regional Center for Food and Nutrition (RECFON), University of Indonesia, Indonesia
- PO1636 TELEVISION VIEWING: IMPACT ON BODY MASS INDEX AND FOOD INTAKE AMONG SCHOOL CHILDREN IN MALAYSIA**
R A. Talib, School of Health Care Sciences, Faculty of Health Sciences, The National University of Malaysia, Malaysia
- PO1637 DIFFERENCES ON WHO INDICATORS FOR ASSESSING INFANT AND CHILDREN FEEDING PRACTICES ON PUBLIC AND PRIVATE HEALTH CENTERS IN ROSARIO, ARGENTINA**
M E. Zapata, Centro De Estudios Sobre Nutricion Infantil (CESNI), Ciudad Autonoma de Buenos Aires, Buenos Aires, Argentina
- PO1638 URBAN AGRICULTURE AS STRATEGY TO PROMOTE FOOD AND NUTRITION SECURITY**
D. Coelho, Faculdade de Saude Publica, Universidade de São Paulo, São Paulo, Brasil
- PO1639 MALNUTRITION STATUS AND INFLUENCING FACTORS IN LEFT-BEHIND CHILDREN WITH MIGRANT WORKER MOTHER IN POOR AREAS IN CHINA**
D. Yu, Institute of Nutrition and Food Safety, China CDC, Beijing, China
- PO1640 COMPARISON OF PREVENTIVE AND THERAPEUTIC ZINC SUPPLEMENTATION PROGRAM EFFECTS ON DIARRHEA AND FEBRILE ILLNESSES AMONG YOUNG CHILDREN: A RANDOMIZED TRIAL**
E. Becquey, Helen Keller International, New York, NY, USA
- PO1641 FOOD SECURITY AMONG HOUSEHOLDS WITH NO DRINKING WATER AND ELECTRICITY.COMUNA 3 CASE.MEDELLIN-COLOMBIA. 2011**
C. Mejia, Faculty of Public Health, University of Antioquia, Medellin, Colombia

- PO1642 CONTRIBUTION TO THE STUDY OF TOXICOLOGICAL AND NUTRITIONAL EDIBLE OILS HEATED: IMPACT ON HEALTH**
O. Aouacheri, Applied Biochemistry and Microbiology Laboratory, Department of Biochemistry, Faculty of Sciences, Badji Mokhtar University - Annaba, Algeria
- PO1643 EFFECT OF INCREASING VOLUNTARY FOLIC ACID FORTIFICATION ON DIETARY FOLATE INTAKES AND ADEQUACY IN REPRODUCTIVE AGE NEW ZEALAND WOMEN**
L. Houghton, Department of Human Nutrition, University of Otago, New Zealand
- PO1644 AN EVALUATION OF ANTHROPOMETRIC MEASUREMENTS, KNOWLEDGE, ATTITUDE, AND PRACTICES SCORES OF DIET AND NUTRITION AT DIFFERENT TYPE WORKSITES IN TAIWAN**
H M L. Chin, Taipei City Hospital; Fu-Jen Catholic University, Taiwan, China
- PO1645 THE POTENTIAL FOR NUTRITION-ORIENTED VALUE CHAIN ANALYSES TO INFORM DIET-RELATED CHRONIC DISEASE PREVENTION: AN AUSTRALIAN PERSPECTIVE**
L. Hattersley, National Centre for Epidemiology and Population Health, The Australian National University, Canberra, ACT, Australia
- PO1646 NUTRITIONAL STATUS OF CHILDREN 6-59 MONTHS BY SOCIO-ECONOMIC GROUPS IN THE PHILIPPINES: POLICY IMPLICATIONS**
G M. Gironella, Department of Science and Technology, Food and Nutrition Research Institute, Taguig, Philippines
- PO1647 INVERSE ASSOCIATION BETWEEN SOY PRODUCTS CONSUMPTION AND INSULIN RESISTANCE IN JAPANESE ADULTS**
M. Nakamoto, University of Tokushima
- PO1648 MONITORING CORPORATE INFLUENCE: AN ASSESSMENT OF THE POLICIES AND ACTIONS OF PRIVATE SECTOR ORGANISATIONS WITH RESPECT TO FOOD ENVIRONMENTS**
G. Sacks, WHO Collaborating Centre for Obesity Prevention, Deakin University, Melbourne, Victoria, Australia
- PO1649 SODIUM LEVELS IN PRIVATE LABEL FOODS COMPARED TO NATIONAL BRANDED PRODUCTS IN AUSTRALIA**
H. Trevena, The George Institute For Global Health, Sydney, NSW, Australia
- PO1650 WEIGHT CONTROL ATTEMPTS IN UNDERWEIGHT KOREAN ADULTS: KOREA NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY, 2007-2010**
Y G. Cho, Department of Family Medicine, Seoul-Paik Hospital, College of Medicine and Institute of Clinical Nutrition, Inje University, Republic of Korea
- PO1651 THREE YEAR-OLD HEAD START PRESCHOOLERS LEARNED AND SHARED POSITIVE BEHAVIORS WITH THEIR CAREGIVERS AT SCHOOL AND AT HOME**
V. Zoumenou, Department of Human Ecology, Cooperative Extension, University of Maryland Eastern Shore, USA
- PO1652 NUTRITION EDUCATION PROGRAM TO PROMOTE HEALTHY DIETARY HABITS AMONG ELEMENTARY STUDENTS**
E. Sakai, Department of Health and Nutrition, Aichi-Gakuin University, Japan
- PO1653 INFANT AND YOUNG CHILD NUTRITION IN BANGLADESH: COUNTRY SITUATION ANALYSIS**
F. Shabnam, EEP/Shiree, Dhaka, Bangladesh
- PO1654 HEALTH SECTOR STRATEGY FOR ADDRESSING MATERNAL UNDERNUTRITION IN NEPAL: FROM CAUSAL ANALYSIS TO STRATEGIC APPROACHES**
M. Devkota, Department of Community Medicine and Public Health, Institute of Medicine, Kathmandu, Nepal
- PO1655 PREVALENCE AND DETERMINANTS OF METABOLIC SYNDROME AMONG POST MENOPAUSAL WOMEN IN RURAL AREA OF NORTHERN BANGLADESH**
F. Ara, Dept of Community Nutrition, Bangladesh Institute of Health Sciences (BIHS), Bangladesh
- PO1656 SEPARATING SATIETY AND SATIATION IN APPETITE CONTROL: EFFECT OF EXERCISE IN OVERWEIGHT AND OBESE ADULTS**
P. Caudwell, Institute of Psychological Sciences, University of Leeds, Leeds UK
- PO1657 DIET QUALITY, WATER AND TOILETS: WHAT ROLES FOR CHILD UNDERNUTRITION IN INDIA?**
P. Menon, International Food Policy Research Institute, New Delhi, India
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P. Menon, International Food Policy Research Institute, Washington, DC, USA
- PO1659 MENU LABELING IN "OUT-OF-HOME" SECTOR: OPPORTUNITIES, BARRIERS, AND NEEDS WITH RESPECT TO USE OF HEALTH COMMUNICATION IN RESTAURANTS**
A J C. Roodenburg, Department of food technology, HAS university of applied science, Den Bosch, the Netherlands
- PO1660 COMPLEMENTARY AND ALTERNATIVE MEDICINE USE AMONG PEOPLE LIVING WITH HIV AND AIDS (PLWHA) IN LEBANON**
J. Abou-Rizk, Department of Nutrition and Food Sciences, American University of Beirut, Beirut, Lebanon
- PO1661 NATIONAL SURVEY OF INSTITUTIONALIZES SOCIALLY DEPRIVED CHILDREN AGED 0-3 YERS IN BULGARIA**
L. Ivanova, Sofia University 'Kl.Ohridski' Faculty of Medicine, Sofia, Bulgaria
- PO1662 DRUG - NUTRIENT INTERACTIONS: EFFECT OF FOLIC ACID FORTIFIED DIETS ON THE EFFICACY AND TOXICITY OF METHOTREXATE**
E. Alonso-Aperte, Department of Pharmaceutical and Food Sciences, Facultad de Farmacia, Universidad CEU San Pablo, Spain
- PO1663 DEVELOPMENT OF NUTRITION EDUCATION PACKAGE ON CHILD CARE AND FEEDING PRACTICES FOR RURAL WOMEN IN ENUGU STATE, NIGERIA: A POSITIVE DEVIANT APPROACH.**
O. Mbah, University of Nigeria, Nsukka, Nigeria
- PO1664 NUTRITIONAL RISKS RELATED TO DIETARY WEIGHT-LOSS PRACTICES**
S. Wetzler, Unite d'évaluation et des risques nutritionnels - The French Agency for Food, Environmental and Occupational Health & Safety (ANSES) - Maisons-Alfort, France
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P J. Benito, Department of Health and Human Performance, Technical University of Madrid, Madrid, Spain
- PO1666 THE MEDIA AND PUBLIC'S REACTION TO SCIENTIFIC EVIDENCE: A BREASTFEEDING CASE STUDY**
D. Marais, University of Aberdeen UK
- PO1667 FAMILY FARMING AND THE QUALITY MENU OF THE NATIONAL SCHOOL NUTRITION PROGRAM (PNAE) IN BRAZIL**
J. Yumi Toyoyoshi, Course of nutrition, Centro Universitario São Camilo, São Paulo, Brazil
- PO1668 LEVERAGING A NUTRIENT SUPPLEMENT TRIAL TO IMPROVE HANDWASHING BEHAVIOR**
K. Jannat, International Center For Diarrheal Disease and Research, Bangladesh, India
- PO1669 ENGAGING THE MEDIA FOR EFFECTIVE NUTRITION EDUCATION**
A. Botwe, Broadcast Journalism Department, National Film and Television Institute, Ghana

- PO1670 USING THE MEDIA IN NUTRITION EDUCATION IN GHANA-THE CHALLENGES AND OPPORTUNITIES**
A. Botwe, News Department, Radio XYZ, Accra, Ghana
- PO1672 SPORT AND PHYSICAL ACTIVITY MODIFICATION AND ITS RELATIONSHIP WITH RISK FACTORS IN A COHORT OF UNIVERSITY STUDENTS**
M G. Alvear-Galindo, Universidad Nacional Autonoma De Mexico, Mexico
- PO1673 CHANGES IN RISK PROFILE FOR CHRONIC DISEASES IN UNIVERSITY STUDENTS FROM THE UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO**
M G. Alvear-Galindo, Universidad Nacional Autonoma De Mexico, Mexico
- PO1674 COMMUNITY-BASED MANAGEMENT OF SEVERE-ACUTE MALNUTRITION IN CHILDREN IN NON-EMERGENCY CONTEXT: EVIDENCE FROM A RETROSPECTIVE STUDY IN GHANA**
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F J. Llorente-Cantarero, Department of Pediatrics/ University Reina Sofia Hospital/ IMIBIC, Cordoba, Spain
- PO1676 ASSOCIATION BETWEEN STRESS AND DIETARY BEHAVIOUR AMONG FIRST YEAR UNIVERSITY STUDENTS IN AUSTRALIA**
F. Ahmed, School of Public Health, Griffith University, Gold Coast, Australia
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- PO1678 SPANISH SCHOOLCHILDREN WHO SOMETIMES SKIP BREAKFAST HAVE POORER BREAKFAST QUALITY AND POOR DIETARY HABITS IN THE WHOLE DAY. ALADINO STUDY**
A M. Lopez-Sobaler, Departmenten of Nutrition, Faculty of Pharmacy, Universidad Complutense De Madrid, Spain
- PO1679 UNDERSTANDING SUSTAINABLE DIETS: PAST, PRESENT AND FUTURE EFFORTS TO ADVANCE SUSTAINABLE DIETS**
J. Johnston, School of International and Public Affairs, Columbia University, New York, New York, USA
- PO1680 CARDIOVASCULAR RISK PROFILE AND DIET DIVERSITY IN RURAL ZIMBABWEANS**
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- PO1681 TOOLS FOR ASSESSING NUTRITION ASSESSMENT, COUNSELING AND SUPPORT SERVICES AT THE FACILITY AND COMMUNITY LEVELS**
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- PO1682 CARDIOLOGIC FINDINGS, BODY MASS INDEX AND BLOOD PRESSURE IN APPARENTLY HEALTHY ADOLESCENTS**
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- PO1683 STUNTING AND ENVIRONMENTAL QUALITY AMONG URBAN AND RURAL HOUSEHOLDS IN NIGERIA**
F. Samuel, Department of Human Nutrition, University of Ibadan, Nigeria
- PO1685 COMBINED EFFECT OF TRADITIONAL AND NON-TRADITIONAL HEALTH BEHAVIORS ON MORTALITY IN SPANISH OLDER ADULTS**
D. Martinez-Gomez, Department of Physical Education, Sports and Human Movement, Faculty of Teacher Training and Education, Universidad Autonoma de Madrid, Madrid, Spain
- PO1686 SELF-REPORTED LEVELS OF PHYSICAL ACTIVITY DURING SCHOOL RECESS IN SPANISH ADOLESCENTS: THE AFINOS STUDY**
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- PO1687 INFLUENCE OF BODY SHAPE ON THE DIAGNOSIS OF ACUTE MALNUTRITION BY ANTHROPOMETRIC INDICATORS**
B. Guesdon, Action Contre La Faim, Paris, France
- PO1688 PREVALENCE RISK FACTORS AND PROTECTION FOR CHRONIC DISEASES TRANSMITTED IN NO CAPITAL OF BRAZIL IN 2011**
N. Cabral, Department of Nutrition, University CEUMA, Sao Luis, Maranhão, Brazil
- PO1689 CLIMATE VARIABILITY ON CAREGIVER'S MENTAL HEALTH AND CHILD NUTRITIONAL STATUS**
A. Christian, Regional Institute For Population Studies, University of Ghana, Legon & Carolina Population Center, University of North Carolina, Chapel Hill, USA
- PO1690 CAROTENOID CONSUMPTION AMONG BENEFICIARIES OF A CASH TRANSFER PROGRAM IN BRAZIL**
A. Sartori, Department of Agroindustry, Foods and Nutrition, Escola Superior De Agricultura "Luiz De Queiroz", Universidade De São Paulo, Piracicaba, Brazil
- PO1691 CHILD AND MOTHER NUTRITION SURVEY OF BANGLADESH(CMNS), 2012**
A. Islam, Bangladesh Bureau of Statistics, Parishankhyan Bhaban, E-27/A, Agargaon Sher-e-Bangla Nagar, Dhaka-1207, Bangladesh
- PO1692 RISK FACTORS ANALYSIS FOR MALNUTRITION IN PEOPLE LIVING WITH HIV/AIDS**
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- PO1693 RELATIONSHIP BETWEEN PREFERENCE FOR JAPANESE SOUP STOCK (DASHI) AND DIETARY HABITS IN UNIVERSITY STUDENTS**
Y. Higashine, Faculty of Health Science, Osaka Aoyama University, Minoo, Japan
- PO1694 COMMUNITY INTERVENTION TRIAL PROMOTE HEALTHY BEHAVIORS IN FARMERS IN TIANJIN, CHINA**
G. Jiang, Tianjin Centers For Disease Control and Prevention, Tianjin, China
- PO1698 DOES SOCIO-ECONOMIC FACTORS DETERMINE THE POSITIVE OUTCOME OF FRUITS AND VEGETABLES CONSUMPTION?**
C T. Anyakee, Department of Family, Nutrition and Consumer Sciences, Faculty of Agriculture, Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria
- PO1699 ENERGY DENSITY AND FEEDING FREQUENCY OF COMPLEMENTARY FOODS AFFECTS MEAL-SPECIFIC FOOD CONSUMPTION AND DURATION BY HEALTHY, BREAST FED BANGLADESHI CHILDREN**
M. Islam, Centre for Nutrition and Food Security, International Centre For Diarrhoeal Disease Research, Bangladesh (icddr, b), Dhaka 1212, Bangladesh
- PO1700 LEVELS OF ANEMIA AMONG CHILDREN IN TRIBAL INDIA**
S. Sharma, Institute of Health Management Research (IHMR), India
- PO1701 LESSON LEARNED 'IODINE VILLAGE' DEVELOPMENT FOR SUSTAINABLE IDD CONTROL AND PREVENTION IN THAILAND**
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- PO1702 DEVELOPMENT OF INNOVATION FOOD AND NUTRITION EDUCATION TOOL FOR BETTER NUTRITION IN PRIMARY SCHOOL, THAILAND**
W. Kongnoo, Bureau of Nutrition, Department of Health, Ministry of Public Health, Thailand

- PO1703 LESSON LEARNED: IMPROVEMENT OF FOOD QUALITY IN SCHOOL AND CHILD DEVELOPMENT CENTER FOR SUSTAINABLE CHILD NUTRITION**
S N. Damapong, The Project To Develop Systems and Mechanisms For Age-Appropriate Nutrition For Thai Children, Thailand
- PO1704 A FOLLOW-UP SURVEY IN JAPANESE FEMALES: CHANGES OF BONE MINERAL DENSITY AND LIFESTYLE RELATED FACTORS**
N. Nakashima, Faculty of Environmental and Symbiotic Sciences, Prefectural University of Kumamoto, Kumamoto, Japan
- PO1705 MALNUTRITION AND THYMIC HYPOPLASIA IN THE INFANCY**
E. Castellanos, Department of Allergy and Immunology, University Hospital, Cuba
- PO1706 GROWTH AND BODY COMPOSITION CHANGES IN INDIAN UNDERNOURISHED CHILDREN**
U. Deshmukh, King Edward Memorial Hospital and Research Centre, Australia
- PO1707 EVALUATION OF THE ACQUISITION OF THE FAMILY FARMING GENRE: DATA ANALYSIS OF AWARD EFFICIENT MANAGER OF SCHOOL MEALS 2011**
J Y. Toyoyoshi, Centro Universitario São Camilo, São Paulo, Brazil
- PO1708 SENSORY AND NUTRITIONAL EVALUATION OF A MUNICIPAL SERVICE OF COMMUNITY KITCHEN FOR POOR AND HOMELESS PERSONS**
B. Patiño Villena, Municipal Health Services, Department of Social Welfare and Health, Local Government of Murcia, Murcia, Spain
- PO1709 CONCERN ABOUT HIS BODY, SELF-ESTEEM AND DISORDERS OF EATING IN YOUNG**
I C. Moran-Alvarez, Departamento De Salud Publica, Facultad De Medicina, Universidad Nacional Autonoma De Mexico, Mexico
- PO1710 DOUBLE BURDEN OF MALNUTRITION IN BURKINA FASO, A GENDER AND LIFE STYLE BOUND UP PROBLEM RELATED TO EDUCATION AND POVERTY**
A N. Zeba, Institut De Recherche En Sciences De La Sante-Direction Regionale De L'Ouest Bobo Dioulasso, Burkina Faso
- PO1711 THE KUWAIT NUTRITION SURVEILLANCE SYSTEM: AN EXAMPLE FOR OTHER COUNTRIES**
M. Alsumaie, Ministry of Health, Kuwait
- PO1712 DISCREPANCY BETWEEN TWO METHODS OF A QUESTIONNAIRE TO MEASURE FOOD FREQUENCY**
E. Ramos, Universidad Autonoma de Nuevo Leon. Facultad de Salud Publica y Nutricion, Mexico
- PO1713 FOOD FREQUENCY, PHYSICAL ACTIVITY AND SEDENTARY LIFE STYLE OF OVERWEIGHT AND OBESE SAUDI YOUNG WOMEN**
L. AL-Oboudi, Princess Nora Bint Abdulrahman University, Saudi Arabia
- PO1714 THE GRADUATE FROM AGRICULTURE TECHNICAL COURSE AND HIS RELATIONSHIP WITH FOOD AND NUTRITION SECURITY: A WORRYING SITUATION**
H. Oliveira, Instituto Federal De Educação, Ciência e Tecnologia Do Ceara - Campus Crato, Crato, Ceara, Brazil
- PO1715 NUTRITIONAL STATUS AND DIETARY PATTERNS IN SCHOOLCHILDREN OF THE WAYUU ETHNIC GROUP FROM MARACAIBO, VENEZUELA**
D. Villalobos, Laboratory of Research and Development in Nutrition (LIDN), University of Zulia, Venezuela
- PO1716 THE NATIONAL EVALUATION PLATFORM: A NEW WAY TO EVALUATE NUTRITION PROGRAMMING IN MALAWI**
R. Heidkamp, Institute for International Programs, Johns Hopkins Bloomberg School of Public Health, MD, USA
- PO1717 SELECTION OF FOOD IN A DINING ROOM AT UNIVERSIDAD IBEROAMERICANA, MEXICO CITY**
I. Cruz, Health Department, Universidad Iberoamericana, Mexico City, Mexico
- PO1718 STUDENT CONSUMPTION OF ALCOHOLIC AND ENERGY-DENSE BEVERAGES ACCORDING TO TIME OF CLASS ATTENDANCE IN A PRIVATE UNIVERSITY**
R F. Simony, Mackenzie University, Sao Paulo, Brazil
- PO1719 IMPACT OF A MULTISECTORAL PUBLIC HEALTH AGRICULTURE INTERVENTION IN A POST-EMERGENCY SETTING IN HAITI**
D. Sanou, Faculty of Health Sciences, University of Ottawa, Ottawa, Canada
- PO1720 FOR THE DEVELOPMENT OF STRATEGIES TO PREVENT THE RISE OF OBESITY IN MOROCCO**
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- PO1721 PHYSICAL ACTIVITY AND NUTRITIONAL STATUS OF WOMEN IN PROCREATIVE AGE IN MOROCCO AND THEIR RELATIONSHIPS WITH SOCIODEMOGRAPHIC CHARACTERISTICS**
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- PO1722 PLASMATIC LEVELS OF COPPER AND ZINC, NUTRITIONAL ANTHROPOMETRY AND LIPID PROFILE IN AN INDIGENOUS POPULATION BARI FROM VENEZUELA**
N. Martinez, Nutrition Research Coordination, National Institute of Nutrition (INN), Venezuela
- PO1723 CONCENTRATION OF HEAVY METALS AND ESSENTIAL TRACE ELEMENTS IN SCALP HAIR OF INDIGENOUS CHILDREN BARI FROM VENEZUELA**
A. Bravo, Laboratory of Research and Development in Nutrition (LIDN), University of Zulia, Venezuela
- PO1724 MATERNAL BMI IN MID-PREGNANCY AND INSULIN LEVELS IN OFFSPRING AT AGE 4 Y.**
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- PO1725 INFLUENCE OF OVERALL MEAL SENSORY CHARACTERISTICS ON SCHOOL LUNCH ACCEPTANCE**
M. Liz Martins, Faculty of Food Science and Nutrition, University of Porto, Portugal
- PO1726 CARDIOVASCULAR RISK IN HEALTH CARE PROVIDERS WORKING IN ROTATING SHIFTS AND DAYTIME JOBS IN THE HERMINDA MARTIN HOSPITAL, CHILLAN, CHILE**
M. Cifuentes Muñoz, Departamento de Nutricion y salud Publica, Universidad del Bio-Bio, Chillan, Chile
- PO1727 EFFECTIVENESS OF A LOCALLY PRODUCED READY-TO-USE-THERAPEUTIC FOOD FOR THE TREATMENT OF CHILDREN WITH ACUTE MALNUTRITION IN VIET NAM**
T T. Nga, National Institute of Nutrition, Ministry of Health, Hanoi, Vietnam
- PO1728 REFERENCE VALUES OF URINARY HYDRATION BIOMARKERS OF MEN AND WOMEN**
D. Bougatsas, Department of Nutrition and Dietetics, Harokopio University, Athens, Greece
- PO1729 REFERENCE VALUES FOR HYDRATION BIOMARKERS OF CHILDREN 8-14 YEARS**
S. Kavouras, Department of Health, Human Performance and Recreation, University of Arkansas, USA
- PO1730 ADDRESSING THE CAUSES OF UNDERACHIEVEMENT OF USI AND IDD ELIMINATION IN COUNTRIES WITH IDD-FREE STATUS: LESSONS FROM IRAN**
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- PO1731 OVERWEIGHT AND OBESITY, AN INCREASING PROBLEM IN LIMA, PERU; THE NUTRIMOVIL PROGRAM**
M R. Liria, Instituto De Investigacion Nutricional, La Molina, Lima, Peru

PO1732 PERINATAL AND POSTNATAL ANTIOXIDANT NUTRITIONAL STATUS INFLUENCE ATOPIC DERMATITIS IN 3-YEAR-OLD CHILDREN

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PO1733 EFFECTS OF 'TAKE SPORTS ONE HOUR A DAY' POLICY IMPLEMENTATION IN CHINESE STUDENTS

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PO1734 HEALTH BENEFITS OF WHOLEGRAIN – A SYSTEMATIC REVIEW OF THE SCIENTIFIC EVIDENCE TO PROPOSE A DAILY INTAKE

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PO1735 PREVALENCE OF OVERWEIGHT AND OBESITY, AND STATUS OF CHRONIC NON- COMMUNICABLE DISEASES AND SOME RELATED RISK FACTORS AMONG EGYPTIAN ADOLESCENTS

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PO1736 INFLUENCE OF SELECTED FACTORS ON FRAILTY SYNDROME AMONG THE ELDERLY: A PILOT STUDY

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PO1737 SOCIO-DEMOGRAPHIC DETERMINANTS OF CHILD MALNUTRITION IN NORTHERN GHANA

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PO1738 DIETARY SODIUM INTAKE AMONG TURKISH ADULTS

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PO1739 AN AUDIT OF VENDING MACHINES IN PUBLIC PLACES IN REGIONAL NSW, AUSTRALIA

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PO1740 USING LOCAL FOODS TO MEET NUTRIENT REQUIREMENTS OF 6-23 MONTH OLD INFANTS IN DEVELOPING COUNTRIES: A REVIEW OF THE EVIDENCE

S J M. Osendarp, The Micronutrient Initiative, Ottawa, Canada

PO1741 SYSTEMATIC REVIEW OF OBSERVATIONAL STUDIES WITH DOSE-RESPONSE META-ANALYSIS BETWEEN FOLATE INTAKE AND FOLATE STATUS MARKERS IN ADULTS AND ELDERLY

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PO1743 FUNDING FOR DISTRICT-LED NUTRITION ACTIVITIES IN TANZANIA: BASELINE SCALING UP NUTRITION DATA

T. Mkumbwa, Helen Keller International Tanzania, Tanzania

PO1744 RELATIONSHIP BETWEEN CARDIORESPIRATORY FITNESS, PHYSICAL ACTIVITY AND NUTRITIONAL STATUS IN CHILEAN SCHOLARS

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PO1745 QUALITY OF CARBOHYDRATES OF FOODS BEING ADVERTISED TO CHILDREN ON CHILEAN TV

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PO1746 FRUIT AND VEGETABLES ON PRESCRIPTION: A BRIEF INTERVENTION IN PRIMARY CARE

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PO1747 EFFECT OF MEDITERRANEAN DIET COMPONENTS ON SELECTED CARDIOVASCULAR RISK FACTORS, ALL-CAUSE MORTALITY AND CARDIOVASCULAR MORTALITY: SYSTEMATIC REVIEW

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PO1748 NUTRITION AND METABOLIC SYNDROME: DISSEMINATION OF EVIDENCE BASED KNOWLEDGE FROM RESEARCH TO PRACTICE IN BANGLADESH

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PO1749 PARASITOSIS PRESENCE AND ITS POSSIBILITY OF WORSENING NUTRITIONAL STATEMENT AND ANAEMIA ON 0 TO 10 YEARS OLD POOR CHILDREN IN BAHIA.

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PO1750 THE IMPACT OF FAMILY VIOLENCE ON CHILDHOOD GROWTH

M H. Hasselmann, Institute of Nutrition, State University of Rio de Janeiro, Brazil

PO1751 SOCIAL PROTECTION FOR FOOD SECURITY: THE RIGHT OF VULNERABLE MOTHERS TO SOCIAL ASSISTANCE PROMOTING ADEQUATE SUPPLEMENTARY FEEDING FOR YOUNG CHILDREN

W B. Eide, Department of Nutrition, University of Oslo, Norway/Project Team Member For The UN Committee On World Food Security's High Level Panel of Experts, Report On Social Protection For Food Security

PO1752 SOCIOECONOMIC AND FOOD CONSUMPTION FACTORS ARE ASSOCIATED WITH OVERWEIGHT IN MIDDLE-AGED INDONESIAN ADULTS

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PO1753 DIETARY AND PHYSICAL ACTIVITY HABITS IN ITALIAN AND SPANISH SCHOOL-AGE YOUTH WITHIN THE PROJECT MISSION X: TRAIN LIKE AN ASTRONAUT

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PO1754 NATIONAL SURVEY OF CHILDHOOD OBESITY IN SWEDEN - INDIVIDUAL AND SOCIETAL ASPECTS

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PO1755 MULTISECTOR ACTION TO PROMOTE NUTRITION SECURITY IN FIVE COUNTRIES IN ASIA

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PO1757 PHYSICAL ACTIVITY LEVEL AND OBESITY STATUS OF FACTORY WORKERS IN OGUN STATE, SOUTH-WESTERN NIGERIA

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PO1758 HEALTHY LIFESTYLE FOR THE PREVENTION OF CHILD OVERWEIGHT AND OBESITY IN THE COMMUNITY PHARMACY WITHIN A PUBLIC HEALTH MULTIDISCIPLINARY APPROACH

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PO1759 MEDIATING ROLE OF GENDER IN DYNAMICS BETWEEN CASH CROPPING AND FOOD AND NUTRITION SECURITY IN BURKINA FASO

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PO1760 HEALTHY RESTAURANT MENUS: OFFER AND DEMAND. THE EUROPEAN BAROMETER FOOD - SPANISH RESULTS

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PO1761 IMPACT OF A DIABETES EDUCATION PROGRAM ON KNOWLEDGE, ATTITUDE AND PRACTICE IN BANGLADESHI TYPE 2 DIABETIC SUBJECTS

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- PO1762 PROCESS EVALUATION OF NUTRITION EDUCATION PROGRAM IN GREEK PRIMARY SCHOOLS**
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- PO1763 PARENTAL KNOWLEDGE AND PRACTICES OF VITAMIN SUPPLEMENTATION IN YOUNG CHILDREN, AND ITS RELATIONSHIP TO MALNUTRITION**
S. Ratanachu-Ek, Department of Pediatrics, Queen Sirikit National Institute of Child Health, Thailand
- PO1764 BIOMARKERS OF OXIDATIVE STRESS AFTER STRENUOUS PHYSICAL EXERCISE**
M D. Barnuevo Espinosa, Department of Physiology of exercise, Catholic University of San Antonio, Murcia, Spain
- PO1765 QUANTIFICATION OF VITAMIN A IN FORTIFIED OILS USING A FAST AND SIMPLE PORTABLE DEVICE: EVALUATION AND COMPARISON TO HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY**
S. Avallone, UMR NutriPass, IRD Centre De Montpellier, France
- PO1766 HEALTH WORKERS EFFECTIVENESS IN DELIVERING NUTRITION COUNSELLING AT PRIMARY HEALTH FACILITIES IN FCT ABUJA, NIGERIA**
I. Chima, Helen Keller International, Nigeria
- PO1767 NUTRITIONAL STATUS AND DIETARY HABITS AMONG PHARMACY STUDENTS IN SERBIA**
S. Sobajic, Department of Bromatology, Faculty of Pharmacy, University of Belgrade, Serbia
- PO1768 RELATIONSHIP BETWEEN STUNTING TO DISEASES, PATERNAL EDUCATION, AND SOCIAL ECONOMY IN INDONESIAN CHILDREN**
S. Sandjaja, Persatuan Ahli Gizi Indonesia, Indonesia
- PO1769 CONSUMPTION OF NON CALORIC SWEETENERS IN UNIVERSITY POPULATION**
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- PO1770 PROGRAM ACTIVITIES FOR THE OBESE PATIENT (PAPO)**
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- PO1771 DEVELOPMENT OF ANAEMIA ASSESSING INDEX (AAI) TO ASSESS THE RISK OF ANAEMIA AMONG 6 TO 24 MONTHS OLD CHILDREN**
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- PO1772 THE TYPE OF DISEASE AFFECTS DIETARY ADHERENCE**
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- PO1773 THE EFFECT OF NUTRIBUTTER SUPPLEMENTATION ON COMPLEMENTARY FEEDING PRACTICES AMONG YOUNG CHILDREN IN AN URBAN SLUM OF HAITI**
L. Iannotti, Washington University In St. Louis, USA
- PO1774 INFORMING SCHOOL MEAL POLICY THROUGH USE OF A NOVEL WEB-BASED DATA COLLECTION METHOD IN SWEDEN**
E. Patterson, Dept of Public Health Sciences, Karolinska Institutet, Stockholm, Sweden
- PO1775 OBJECTIVELY MEASURED PHYSICAL ACTIVITY IN NORMAL WEIGHT/OVERWEIGHT, NON-STUNTED/STUNTED GUATEMALAN CHILDREN AND ADOLESCENTS**
E R. Close, INCAP Comprehensive Center for the Prevention of Chronic Diseases (CIIPEC), Institute of Nutrition of Central America and Panama (INCAP), Panama
- PO1776 NUTRIENT INTAKE AND TELOMERE LENGTH AMONG JAPANESE AND KOREAN POPULATIONS**
M. Masaki, SUniversity of Nagasaki, Nagasaki, Japan
- PO1777 GLOBAL MALNUTRITION CAPACITY BUILDING ENABLED BY E-LEARNING AND SOCIAL MEDIA**
T. Pickup, Medical Education, Faculty of Medicine, University of Southampton, Southampton, UK
- PO1778 MORTALITY DUE TO MALNUTRITION AMONG UNDER 5-YEAR-OLD CHILDREN AND ITS RELATION TO SOCIOECONOMIC INDICATORS IN COLOMBIA**
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- PO1779 NEPAL'S NATIONAL IRON INTENSIFICATION PROGRAM IMPROVED IFA COVERAGE FOR PREGNANT WOMEN AFTER 5 YEARS AND AFTER 10 YEARS PROTECTED AGAINST ANEMIA**
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- PO1780 WHEN RESEARCH STUDY AND NUTRITION PROGRAM IMPLEMENTATION TIMELINES CLASH - A CASE REPORT ON VITAMIN A SUPPLEMENTATION FROM SOUTH AFRICA**
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- PO1781 MEAT CONSUMPTION AND GENERAL AND CENTRAL OBESITY IN SPANISH ADULTS**
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- PO1782 POSSIBLE CAUSES OF HIGH RATES OF NON-RESPONDENTS IN COMMUNITY MANAGEMENT OF ACUTE MALNUTRITION (CMAM): THE SCI NORTH NIGERIA EXPERIENCE**
D. Ekele, Nutrition Project, Save The Children International, Katsina field Office, Katsina State, Nigeria
- PO1783 THE CHRONIC EFFECTS OF COFFEE INGESTION ON HYDRATION STATUS: A COUNTERBALANCED CROSS-OVER STUDY IN A FREE LIVING POPULATION**
S. Killer, University of Birmingham, Edgbaston, Birmingham, UK
- PO1784 EFFECTS OF WEB-BASED INTERVENTION ON KNOWLEDGE ATTITUDES AND BEHAVIORS RELATING HEALTH EATING IN CHINESE SCHOOL CHILDREN**
L. Wang, Institute of Child & Adolescent Health, School of Public Health, Peking University Health Science Center, Beijing, China
- PO1785 FOOD CONSUMPTION AMONG BRAZILIAN BENEFICIARIES OF "BOLSA FAMILIA" PROGRAM**
M. Vieira da Silva, Department of Agroindustry, Foods and Nutrition, Escola Superior De Agricultura "Luiz De Queiroz", Universidade De São Paulo, Piracicaba, Brazil
- PO1786 AVAILABILITY OF ULTRA-PROCESSED FOOD IN THE NEIGHBORHOOD IS RELATED TO BMI IN WOMEN LIVING IN AN URBAN AREA OF BRAZIL**
P. Martins, Department of Human Movement Sciences, Federal University of São Paulo, Santos, São Paulo, Brazil
- PO1787 ASSESSING THE IMPACT OF INTEGRATED HEALTH, NUTRITION, AGRICULTURE AND ECONOMIC EMPOWERMENT PROJECTS ON THE NUTRITIONAL STATUS OF LIBERIAN REFUGEES CHILDREN IN BUDUBURAM CAMP, GHANA**
A. Sandow, Point Hope Ghana
- PO1788 NEGATIVE WEIGHT EVOLUTION AMONG NORMAL BIRTH WEIGHT BRAZILIAN INFANTS: A NEW APPROACH TO NATIONAL DEMOGRAPHIC AND HEALTH SURVEYS**
J A. Silveira, Division of Nephrology, Universidade Federal de Juiz de Fora, Juiz de Fora, Minas Gerais, Brazil

- PO1789 LONG-TERM EFFECT OF A WORKPLACE HEALTH&WELLNESS PROGRAM ON BODY WEIGHT, RELATED METABOLIC AND HEMODYNAMIC MARKERS IN MEXICO EMPLOYEES**
M. Alvarez, Pepsico Mexico, Mexico city, Mexico
- PO1790 PREVALENCE OF OVERWEIGHT AND OBESITY AMONG ECUADORIAN WORKERS AND THEIR ASSOCIATION WITH LIFE STYLE FACTORS, EXERCISE, AND EATING HABITS**
P. Mogrovejo, Escuela de Nutriologia, Universidad Internacional del Ecuador, Quito, Ecuador
- PO1791 EVALUATING THE BEHAVIORAL EFFECT OF JUNK FOOD ADVERTISING AND BRAND PLACEMENT ON CHILDREN**
A. Fuentes-Garcia, School of Public Health, University of Chile, Chile
- PO1792 NUTRITIONAL RISK AND FUNCTIONAL IMPAIRMENT IN THE ELDERLY (NURSING HOMES AND FREE-LIVING) YUCATAN, MEXICO**
L. Gonzalez, School of Nutrition, Universidad Anahuac Mayab, Mexico
- PO1793 BUILDING POLITICAL COMMITMENT AND CONSENSUS FOR LONGER MATERNITY LEAVE AND STRONGER LEGISLATION ON THE MARKETING OF BREASTMILK SUBSTITUTES**
N. Hajeebhoy, Alive & Thrive/FHI 360, Hanoi, Viet Nam
- PO1794 PERSEO PROJECT: PROCESS EVALUATION, LEVEL OF IMPLEMENTATION AND EFFECTIVENESS**
C. Perez-Rodrigo, Sociedad Española de Nutricion Comunitaria (SENC), Spain
- PO1795 BASELINE EVALUATION OF A CONTINUING EDUCATION PROGRAM FOR HOME DELIVERED CARE SUPPORT PROVIDERS: NUTRITION RISK**
J. Aranceta, Community Nutrition Unit, Bilbao, Spain
- PO1796 EARLY CHILDHOOD STIMULATION IMPROVES GROWTH OF DISADVANTAGED CHILDREN IN RURAL MEXICO**
L. Neufeld, Micronutrient Initiative. Instituto Nacional de Salud Publica, Cuernavaca, Mexico
- PO1797 MONITORING NUTRITIONAL STATUS OF CLIENTS OF BASIC HEALTH UNITIES IN THE STATE OF SÃO PAULO**
Al. Cruz Perez, Secretaria De Estado Da Saude De São Paulo, Brazil
- PO1798 EFFECTIVENESS OF A LARGE-SCALE FOOD BY PRESCRIPTION PROGRAM IN ETHIOPIA ON RECOVERY FROM MALNUTRITION AND HIV PROGRESSION AMONG HIV+ ADULTS**
K. Sadler, Valid International, USA
- PO1799 NATIONAL SCHOOL MEALS PROGRAM AND THEIR INTERFACE WITH FAMILY FARMING: THE BRAZIL CASE**
P M O. Machado, Postgraduate Program in Nutrition, Federal University of Santa Catarina, Brazil
- PO1800 AFTER-SCHOOL NUTRITION EDUCATION, AND PARENTS' AND PEERS' INFLUENCE CAN IMPROVE FRUIT AND VEGETABLE CONSUMPTION AMONGST INTERNATIONAL SCHOOL CHILDREN IN DENMARK**
S. Thapa, Institute of Public Health, University of Southern Denmark, DK 5000 Odense, Denmark
- PO1801 CHILD UNDER NUTRITION, A CROSS SECTIONAL STUDY OF THE ASSOCIATED FACTORS AMONG CHILDREN ATTENDING CHILD WELFARE CLINIC IN CAPE COAST METROPOLIS**
K K A. Pereko, University of Cape Coast, Ghana
- PO1802 EVALUATION OF NUTRITION SURVEYS IN FLOOD AFFECTED AREAS OF PAKISTAN: SEEING THE UNSEEN**
S M. Hossain, UNICEF Afghanistan
- PO1803 SOCIO-HISTORICAL STUDY OF A FEDERAL FOOD POLICY FOR WORKERS**
J. Costa-Souza, Ufba, Brazil
- PO1804 NUTRITION ASSESSMENT AND RESPONSE IN FLOOD AFFECTED AREAS OF PUNJAB- CRISIS AND HOPE**
M. Talat, Save The Children, Pakistan
- PO1805 SNACKS THAT INTERSPERSE MEALS: SMALLS IN GRAMS IS NOT EQUAL SMALL IN CALORIES**
NM. Altoe, Master of Preventive Medicine At School of Medicine, University of São Paulo, Brazil
- PO1806 ESTIMATING THE IMPACT OF GENDER ON NUTRITIONAL OUTCOMES AMONG EXTREME POOR PROJECT PARTICIPANTS IN BANGLADESH**
E. Roy, Helen Keller International, Bangladesh
- PO1807 NUTRITIONAL STATUS AND LIFE STYLE FACTORS ASSOCIATED TO CARDIOVASCULAR DISEASE RISK IN ECUADORIAN WORKERS**
P. Moreno, Escuela De Nutriologia, Universidad Internacional Del Ecuador, Quito, Ecuador
- PO1808 BENEFITS OF DIFFERENT INTENSITY OF AEROBIC EXERCISE TRAINING IN MODULATING THE ANTHROPOMETRIC INDEXES OF OBESE COLLEGE STUDENTS**
S C. Huang, Department of Nutritional Science, Toko University, Chiayi County 61363, Taiwan (R.O.C.)
- PO1809 STUDENTS' PERCEPTION OF A CONDITIONAL CASH TRANSFER PROGRAM WHICH PROVIDES THEM WITH SUBSIDIZED SCHOOL LUNCHES IN JAMAICA**
C. Powell, University of The West Indies, Mona, Jamaica
- PO1810 HEMOGLOBIN LEVELS OF 1 TO 5 YEAR OLD CHILDREN ADMINISTERED VITAMIN A SUPPLEMENTS IN SELECTED HIGH VAD AREAS IN LEYTE, PHILIPPINES**
M A R M. Ramirez, Food and Nutrition Research Institute, Department of Science and Technology, Taguig City, Philippines
- PO1811 DIETARY RECOMMENDATIONS FOR ALCOHOL CONSUMPTION: A NARRATIVE REVIEW**
R. Gopane, North-West University, USA
- PO1812 MATERNAL NUTRITION KNOWLEDGE IS ASSOCIATED WITH MEETING THE MINIMUM ACCEPTABLE DIET AMONG CHILDREN 6-23 MONTHS IN GHANA**
S. Gyampoh, Department of Nutrition and Food Science, University of Ghana, Legon, Accra, Ghana
- PO1813 NUTRITIONAL DIAGNOSIS AND PROMOTING HEALTHY LIFESTYLE IN TEENAGERS IN HIGH SCHOOL IN CELAYA, GUANAJUATO**
N. Pescador, Universidad De Guanajuato, Mexico
- PO1814 NUTRIMETRIA: A SCORE FOR WEIGHT AND HEIGHT IN SCHOOL CHILDREN**
JE. Selen, Office of Public Health, Tenabo, Campeche, Mexico
- PO3327 A STUDY OF CHILEAN SCHOOL CHILDREN: RELATIONSHIP BETWEEN SUGARED NON-ALCOHOLIC BEVERAGES AND BODY MASS INDEX**
J. Araneda, Facultad Ciencias de la Salud y de los Alimentos, Departamento de Nutricion y Salud Publica, Universidad del Bio-Bio, Chillan, Chile
- PO3328 ANTHROPOMETRIC ASSESSMENT AND BLOOD PRESSURE IN MEXICAN SCHOOL-AGED CHILDREN**
A. Vergara-Castañeda, Facultad de Ciencias Quimicas, Universidad La Salle, Mexico

- PO3329 ASSOCIATIONS OF DIABETES AND OBESITY GENOTYPES TO DIETARY PATTERNS IN PRE-SCHOOL AND SCHOOL AGED CHILDREN**
C. Wall, Discipline of Nutrition, The University of Auckland, Auckland, New Zealand
- PO3330 CHARACTERIZATION OF AREAS OF DEFICIENT KNOWLEDGE ABOUT DM AMONG TYPE 2 BANGLADESHI DIABETIC SUBJECTS ATTENDING A TERTIARY CARE HOSPITAL**
F. Jasmine, Bangladesh University of Health Sciences, Dhaka, Bangladesh
- PO3331 MONOUNSATURATED FAT INTAKE AND HYPERTENSION AMONG URBAN SCHOOL CHILDREN IN MEXICO CITY**
A. Vergara-Castañeda, Facultad de Ciencias Químicas, Universidad La Salle, Mexico
- PO3332 PREVENTION OF LINEAR GROWTH FALTERING AMONG LOW BIRTH WEIGHT INFANTS IN RURAL BANGLADESH: A COMMUNITY-BASED CLUSTER RANDOMIZED TRIAL**
S. Shafique, Department of Nutritional Sciences, University of Toronto, Canada
- PO3333 TRENDS AND DETERMINANTS OF MATERNAL AND CHILD UNDER-NUTRITION IN NEPAL: FURTHER ANALYSIS OF THE NEPAL DEMOGRAPHIC HEALTH SURVEY, 1996-2011**
S. Mebrahtu, UNICEF Nepal
- PO3334 25-HYDROXYVITAMIN D, ITS GENETIC DETERMINANTS AND THE RISK OF CARDIOVASCULAR DISEASES IN THE GERMAN ARM OF THE EPIC-STUDY**
T. Kühn, Department of Cancer Epidemiology, German Cancer Research Center (DKFZ), Heidelberg, Germany
- PO3335 BUILDING NUTRITION CAPACITY FOR SCALING UP NUTRITION IN AFRICA**
B. Ellahi, Dept. of Clinical Science, University of Chester, UK
- PO3336 COST OF OBESITY FOR THE NATIONAL HEALTH SYSTEM IN BRAZIL: AN APPLICATION OF THE COST-OF-ILLNESS METHOD**
M.L. Oliveira, Ministry of Social Development, Brasilia, Brazil
- PO3337 DO ARABIC WEIGHT LOSS MOBILE APPLICATIONS COMPLY WITH EVIDENCE-BASED WEIGHT MANAGEMENT GUIDELINES?**
A. Alnasser, Division of Applied Health Sciences, University of Aberdeen, UK
- PO3338 FOOD CONSUMPTION, NUTRITIONAL DIAGNOSIS AND BODY IMAGE PERCEPTION INTO THE SCHOOL-AGED CHILDREN AT TABASCO STATE, MEXICO**
V. Rivas-Acuña, Universidad Juarez Autonoma De Tabasco, Division Academica de Ciencias de la Salud, Villahermosa Tabasco, Mexico
- PO3339 NEW SODIUM REDUCTION TECHNOLOGY'S POTENTIAL FOR DECREASING DIETARY SODIUM INTAKE IN POPULATIONS AT RISK**
L. Spence, Tate & Lyle, Hoffman Estates, USA
- PO3340 THE COMBINED IMPACT OF FIVE LIFESTYLE FACTORS ON ALL-CAUSE, CANCER, AND CARDIOVASCULAR MORTALITY - A PROSPECTIVE COHORT STUDY AMONG DANES**
K. Petersen, Danish Cancer Society Research Center, Danish Cancer Society, Copenhagen, Denmark
- PO3341 VIEWS OF PARENTS IN FOUR EUROPEAN COUNTRIES ABOUT THE EFFECT OF FOOD ON THE MENTAL PERFORMANCE OF PRIMARY SCHOOL CHILDREN**
H. Gage, Food, Consumer Behaviour and Health Research Centre, University of Surrey, UK
- PO3342 DIET AND ACTIVITY RISK FACTORS FOR TYPE 2 DIABETES IN ALBERTA YOUTH: COMPARISON BETWEEN 2005 AND 2008**
L. McCargar, University of Alberta, Edmonton, Canada

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- PO1446 PROJECT TO FIGHT CHILDHOOD OVERWEIGHT WITH VIDEO GAMES. IN CHILD WITH SOCIAL DISADVANTAGE. ACTIVE ASSISTANCE TECHNOLOGY FOR HEALTH RELATED BEHAVIOR CHANGE**
F. Fernandez Rosado, Andalusian Health Service, Cadiz, Spain
- PO1815 ASSESSING THE EFFECTIVENESS OF INTUITIVE EATING TO PROMOTE WEIGHT LOSS (PILOT STUDY)**
J. Anglin, College of Health and Human Services, California State University, Long Beach, USA
- PO1817 PREVALENCE OF OVERWEIGHT AND OBESITY AMONG CHILDREN, ADOLESCENTS, AND YOUNG ADULTS, IN TONEKABONE, IRAN (2010-2012)**
H. Nasiri Reineh, The Islamic Azad University, Tonekabon Branch, Iran
- PO1818 DIABETES CAN REDUCE THE BENEFITS OF DIETARY POLYPHENOLS IN BLOOD**
H. Cao, Department of Chemistry, Central South University, Hunan, China
- PO1819 DIETARY PATTERNS PREDICTING CHANGES IN OBESITY INDICES (BMI,WC,WHR) IN LONGITUDINAL TEHRAN LIPID AND GLUCOSE STUDY**
S. Eghtesadi, Department of Nutrition and Biochemistry, Tehran University of Medical Sciences, Tehran, Iran
- PO1820 SCREENING FOR UNDERNUTRITION IN NEUROREHABILITATION USING 2 SCALES: NUTRITIONAL RISK SCORE 2002, INNSBRUCKER NUTRITION SCORE AND CONSISTANT NUTRITIONAL MANAGEMENT**
C. Haider, Rehabilitation Center Grossgmain PVA, Grossgmain, Austria
- PO1821 STROKE AND NUTRITION: A REVIEW OF STUDIES**
M. Foroughi, Isfahan University Medical Science, Isfahan, Iran
- PO1822 OBESITY AMONG EMPLOYEES OF MINYA UNIVERSITY, EGYPT**
R. Nashed, Community Medicine Department, Faculty of Medicine, Minia University, Minia, Egypt
- PO1823 LOW-CARBOHYDRATE-SCORE AND THE RISK OF CORONARY HEART DISEASE**
H. A. Boakye, Ghana Education Service, Accra, Ghana
- PO1824 FIBER INTAKE AND STAGE OF CHANGE AMONG DIABETES TYPE 2 PATIENTS: A CROSS SECTIONAL STUDY**
P. Keshani, Department of Nutrition, Shiraz University of Medical Sciences, Shiraz, Iran
- PO1825 LIVER DISEASE FINDINGS IN CHILDREN AND ADOLESCENTS WITH TYPE 1 DIABETES**
N. Göbü, Osmangazi University, Eskişehir, Turkey
- PO1826 RELATIONSHIP BETWEEN NUTRITION INTAKE AND PERIODONTAL CONDITION IN FEMALE JAPANESE PERIODONTITIS PATIENTS**
S. Maruyama, College of Human Life and Environment, Kinjo Gakuin University, Nagoya, Aichi, Japan
- PO1827 ATTENUATED ORAL FATTY ACID SENSITIVITY IS ASSOCIATED WITH ACUTE EXCESS ENERGY INTAKE**
R. Keast, Deakin University, Melbourne, Australia

- PO1829 BLOOD LEVELS OF HOMOCYSTEINE, OXIDATIVE STRESS AND INFLAMMATORY BIOMARKERS IN CHILDREN WITH ACUTE GLOMERULONEPHRITIS**
S. Kajanachumpol, Research Center, Ramathibodi Hospital, Faculty of Medicine, Mahidol University, Bangkok, Thailand
- PO1830 GENETIC INFLUENCES ON FAT ACCUMULATION PATTERN IN YOUNG JAPANESE FEMALES**
M. Kagawa, Institute of Nutrition Sciences, Kagawa Nutrition University, Saitama, Japan
- PO1831 A HOLISTIC APPROACH IDENTIFIES PRIORITY TARGETS TO REDUCE CHRONIC DIET-RELATED DISEASE PREVALENCE: AN EXHAUSTIVE REVIEW OF POOLED AND META-ANALYSES**
A. Fardet, Human Nutrition Unit (JRU 1019), Department of Human Nutrition, INRA & Auvergne University, Human Nutrition Research Centre of Auvergne, Clermont-Ferrand, France
- PO1832 HYPOCHOLESTEROLEMIC AND ANTIOXIDATIVE EFFECTS OF EXTRACTS FROM THE INTERNAL ORGANS OF SEA CUCUMBER**
Y. Lu, Department of Nutritional Science, Fu Jen Catholic University, New Taipei City, Taiwan
- PO1833 IS EARLIER START OF ENTERAL NUTRITION BETTER FOR POSTOPERATIVE COURSE IN ESOPHAGEAL CANCER PATIENTS?**
Y. Koyama, Division of Digestive & General Surgery/Niigata University Graduate School of Medical & Dental Sciences, Niigata, Japan
- PO1834 THE EFFECT OF FUNCTIONAL FOOD WITH INULIN ON METABOLIC SYNDROME**
A. Kaminskas, Faculty of Medicine of Vilnius University, Department of Physiology, Biochemistry and Laboratory Medicine, Vilnius, Lithuania
- PO1835 TOBACCO SMOKE AND SIDE-STREAM CIGARETTE SMOKE INDUCE THE RISK OF CARDIOVASCULAR DISEASE**
D. Viroonudomphol, Dept. of Chemical Metrology and Biometry, National Institute of Metrology, Bangkok, Thailand
- PO1836 NUTRITION FOR THE BREAST CANCER PATIENT: THERAPEUTIC OPTIMIZATION BASED ON POPULATION-SPECIFIC FACTORS**
A. Ronco, Unit of Oncology and Radiotherapy, Pereira Rossell Women's Hospital, Montevideo, Uruguay
- PO1837 CURRENT GLYCEMIC CONTROL AMONG THE MIDDLE CLASS INDONESIAN DIABETIC SUBJECTS**
T S. Yen, South East Asian Ministers of Education Organization, Regional Center For Food and Nutrition, University of Indonesia, Jakarta, Indonesia
- PO1838 NUTRITIONAL STATUS OF TUBERCULOSIS AND HIV CO-INFECTED PATIENTS ATTENDING ANTIRETROVIRAL TREATMENT CENTER OF SCHOOL OF TROPICAL MEDICINE, KOLKATA, INDIA**
A. Bhowmik, Centre of Excellence in HIV Care, School of Tropical Medicine, Kolkata, West Bengal, India
- PO1839 SATISFYING SUGAR CRAVINGS IN PEOPLE WHO ARE OBESE AND DIABETIC WITH SYNSEPALUM DULCIFICUM: UNDERUTILIZED AND NEGLECTED FRUIT SPECIE IN GHANA**
B. Asenso Barnieh, Ghana Education Service (NSHTS), Kumasi, Ghana
- PO1840 CHANGES IN CLINICAL STATUS, NUTRITIONAL AND BIOCHEMICAL BIOMARKERS IN PULMONARY TUBERCULOSIS PATIENTS RECEIVING ZINC SUPPLEMENTATION IN ADDITION TO CONVENTIONAL TREATMENT**
M. Guzman-Rivero, Biomedical Nutrition, Pure and Applied Biochemistry, Lund University, Lund, Sweden
- PO1841 EFFECT OF VITAMIN E AND C SUPPLEMENTATION ON ELDERLY WITH MILD COGNITIVE IMPAIRMENT (MCI) IN ISFAHAN, IRAN**
A M. Alavi Naeini, Department of Nutrition and Biochemistry, Tehran University of Medical Sciences, Tehran, Iran
- PO1842 METABOLIC SYNDROME AND ITS DETERMINANTS IN A SAMPLE OF YOUNG IRANIAN CHILDREN WITH OBESITY**
F. Esfarjani, Department of Food and Nutrition Policy and Planning Research, National Nutrition and Food Technology Research Institute, Faculty of Nutrition Sciences and Food Technology, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- PO1843 SOCIOECONOMIC POSITION AND BODY MASS INDEX AMONG ADULTS: THE ROLE OF TAKEAWAY FOOD**
K. Miura, School of Public Health and Social Work, Queensland University of Technology, Brisbane, Australia
- PO1844 TRANS FAT ENHANCED DOXORUBICIN INDUCED CARDIOTOXICITY IN MICE**
M C. Yin, Department of Nutrition, China Medical University, Taichung City, Taiwan
- PO1845 A SCIENTIFIC VALIDATION OF ANTIHYPERGLYCEMIC AND ANTIHYPERLIPIDEMIC ATTRIBUTES OF TRICHOSANTHES DIOICA FRUITS**
P. Rai, Department of NMR, All India Institute of Medical Sciences, New Dehli, India
- PO1846 BMSO ALTERS WHITE ADIPOSE TISSUE PROTEIN PROFILES IN C57BL/6J MICE DISPLAYING DELIPIDATIVE, INFLAMMATORY AND BROWNING CHARACTERISTICS**
P M. Chao, Institute of Nutrition, China Medical University, Taichung, Taiwan
- PO1847 SERUM VITAMIN D AND RISK OF ALZHEIMER'S DISEASE**
P. Knekt, National Institute for Health and Welfare, Helsinki, Finland
- PO1848 THE RISK OF METABOLIC SYNDROME IS ASSOCIATED WITH INCREASED OXIDATIVE STRESS IN SUBJECTS WITH COLORECTAL ADENOMAS**
F P. Chen, School of Nutrition, Chung Shan Medical University, Taichung, Taiwan
- PO1849 ASSOCIATION BETWEEN MATERNAL DIETS EVALUATED BY THE HEALTHY EATING INDEX SCORE AND BLOOD LIPIDS, LIPOPROTEIN, AND HOMOCYSTEINE LEVELS AT BIRTH**
F J. Sanchez-Muniz, Universidad Complutense de Madrid, Madrid, Spain
- PO1850 ANTHOCYANIN-RICH MAIZE PURPLE PLANT PIGMENT STIMULATED THE PROLIFERATION AND DIFFERENTIATION OF OSTEOBLASTIC MC3T3-E1 CELLS**
B. Zhou, Department of Nutrition and Food Hygiene, Shenyang Medical College, Shenyang, Liaoning, China
- PO1851 EFFECTS OF CONSUMPTION OF A DRINK OF CASHEW (ANACARDIUM OCCIDENTALE) ABOUT GLUCOSE-INSULIN RESPONSE IN PATIENTS WITH TYPE 2 DIABETES MELLITUS**
M. Romero, Laboratorio de Investigaciones y Desarrollo en Nutricion (LIDN), Universidad Del Zulia, Maracaibo, Venezuela
- PO1852 EFFECTS OF THE CONSUMPTION OF A CASHEW BEREVAGE (ANACARDIUM OCCIDENTALE) ON THE GLYCEMIC AND INSULIN RESPONSE IN HEALTHY YOUNG ADULTS**
M. Romero, Laboratorio de Investigaciones y Desarrollo en Nutricion (LIDN), Universidad Del Zulia, Maracaibo, Venezuela
- PO1853 ERYTHROCYTE LEVELS OF N-3 POLYUNSATURATED FATTY ACIDS AND BIOMARKERS OF INFLAMMATION AND OXIDATIVE STRESS IN PATIENTS WITH AND WITHOUT DEPRESSION**
Y. Park, Department of Food and Nutrition, Hanyang University, Seoul, South Korea
- PO1854 HYPOCHOLESTEROLEMIC EFFECT OF MANGO GINGER (CURCUMA AMADA ROXB) ON HYPERCHOLESTEROLEMIC ADULT PATIENTS**
A. Thomas, Department of Home Science, C.M.S. College, Kottayam, Kerala, India
- PO1855 A COHORT STUDY ON THE PREVALENCE OF OBESITY AND HYPERTENSION AMONG SHARPEVILLE ELDERLY IN SOUTH AFRICA (2005-2011)**
O. Otitoola, Centre of Sustainable Livelihood, Vaal University of Technology, Vanderbijlpark, South Africa

- PO1856 HIGHER HOMOCYSTEINE IS ASSOCIATED WITH THE INCREASED RISK OF COLORECTAL CANCER INDEPENDENTLY OF OXIDATIVE STRESS AND ANTIOXIDANT ENZYME ACTIVITY**
Y C. Huang, School of Nutrition, Chung Shan Medical University, Taichung, Taiwan
- PO1857 PROTEOMIC ANALYSIS OF POTENT LIPOLYTIC ACTION OF LACTOFERRIN IN RAT MATURE ADIPOCYTES**
K. Ikoma, Research and Development Headquarters, Lion Corporation, Kanagawa, Japan
- PO1858 EFFECT OF DIETARY AND PHYSICAL ACTIVITY INTERVENTION IN OVERWEIGHT AND OBESE THAI ADULTS**
P. Artitdit, Department of Nutrition and Dietetics, Queen Sirikit National Institute of Child Health, Bangkok, Thailand
- PO1859 THE EFFECTS OF DIETARY POLYUNSATURATED FATTY ACIDS IN THE PREVENTION OF CORONARY HEART DISEASE**
S. Zeghichi-Hamri, Department of food sciences, Bejaia University, Bejaia, Algeria
- PO1860 TRENDS OF OBESITY, HYPERTENSION AND WEIGHT PERCEPTION OF SAHRAOUI ETHNIC GROUP IN SOUTHERN MOROCCO (2001-2011)**
M. Rguibi, Biology Department, Training and Research Unit on Nutrition & Food Sciences, Laboratory of Biotechnology, Biochemistry & Nutrition, Chouaib Doukkali University, School of Sciences, El Jadida, Morocco
- PO1861 VEGETABLE AND FRUIT CONSUMPTION IS INVERSELY ASSOCIATED WITH COLORECTAL CANCER RISK IN CHINESE POPULATIONS**
C. Zhang, Department of Medical Statistics and Epidemiology, Sun Yat-Sen University, Guangzhou, People's Republic of China
- PO1862 ALTERATION OF CARDIOVASCULAR DISEASE RISK BIOMARKERS IN PREPUBERTAL CHILDREN**
J. Olza, Department of Biochemistry and Molecular Biology II, University of Granada, Granada, Spain
- PO1863 INFLAMMATION MARKERS CORRELATE WITH INSULIN SENSITIVITY PARAMETERS IN OBESE ADOLESCENTS**
M. Aguilar-Cordero, Hospital San Cecilio, Granada, Spain
- PO1864 THE PREVALENCE OF OVERWEIGHT AND OBESITY AMONG 7-16-YEARS CHILDREN AND ADOLESCENTS AND ITS RISK FACTORS IN SOUTHERN CHINA**
H. Xue, Department of Nutrition and Food Safety, West China School of Public Health, Sichuan University, Chengdu, China
- PO1865 HYPERTENSION, VITAMIN D STATUS AND BODY MASS INDEX IN AN URBAN SOUTH AFRICAN COMMUNITY**
R. Lategan, Department of Nutrition and Dietetics, University of The Free State, Bloemfontein, South Africa
- PO1866 BMI, WAIST TO HEIGHT RATIO, BODY ADIPOSITY INDEX AND WAIST CIRCUMFERENCE ARE ASSOCIATED WITH HYPERTENSION IN AN URBAN AFRICAN COMMUNITY**
R. Lategan, Department of Nutrition and Dietetics, University of The Free State, Bloemfontein, South Africa
- PO1867 DIETARY FATTY ACIDS IN RELATION TO INFLAMMATORY MARKERS IN PATIENTS WITH CORONARY ARTERY DISEASE**
Z. Paknahad, Isfahan University of Medical Sciences, Isfahan, Iran
- PO1868 SESQUITERPENOID FROM INULA WISSMANNIANA HAND.-MAZZ. WITH THEIR INHIBITORY ACTIVITIES AGAINST LPS-INDUCED NO PRODUCTION IN RAW264.7 MACROPHAGES**
X R. Cheng, State Key Laboratory of Food Science and Technology, School of Food Science and Technology, Jiangnan University, Wuxi, China
- PO1869 EFFECTS OF ORAL ADMINISTRATION OF QUERCETIN ON THE ANTICANCER EFFECT OF TRICHOSTATIN A IN A XENOGRFT TUMOR MODEL**
S T. Chan, School of Nutrituin, Chung Shan Medical University, Taichung, Taiwan
- PO1870 PROTECTIVE EFFECTS OF AQUEOUS EXTRACT FROM HOUTTUYNIA CORDATA ON ACETAMINOPHEN-INDUCED HEPATOTOXICITY IN C57BL/6J MICE**
W H. Liu, School of Nutrition, Chung Shan Medical University, Taichung, Taiwan
- PO1871 SHORT TERM MICRONUTRIENT-ANTIOXIDANT SUPPLEMENTATION HAS NO IMPACT ON GASTRIC ATROPHY IN ZAMBIAN ADULTS: A RANDOMISED CONTROLLED TRIAL**
V. Kayamba, Department of Internal Medicine, University of Zambia, Lusaka, Zambia
- PO1872 THE EFFECT OF DIETARY INTERVENTION ON FOOD INTAKE, WEIGHT AND BIOCHEMISTRY PROFILE AFTER KIDNEY TRANSPLANTATION**
M K. Hong, Department of dietetics, Samsung Medical Center, Seoul, South Korea
- PO1873 BENEFICIAL EFFECT OF LOW INTAKE OF ALCOHOL ON HIGH-FAT DIET FED RATS AND SENESCENCE-ACCELERATED MICE(SAMP1)**
A. Osaki, Graduate School of Biosphere Science Hiroshima University, Higashihiroshima, Hiroshima, Japan
- PO1874 THE ASSESSMENT OF OBJECTIVE SCORE OF NUTRITION ON DIALYSIS (OSND) IN TURKISH HEMODIALYSIS PATIENTS**
P. Turker, Baskent University, Faculty of Health Science, Department of Nutrition and Dietetics, Ankara, Turkey
- PO1875 CHANGES IN GREEN BEANS POTASSIUM CONTENT BY SOAKING AND COOKING: IMPLICATIONS IN CHRONIC KIDNEY DISEASE MANAGEMENT**
M. Martinez-Pineda, Department of Animal Production and Food Science, University of Zaragoza, Zaragoza, Spain
- PO1876 SYSTEMATIC REVIEW OF EFFECTS OF DIETS WITH EITHER LOW OR HIGH GLYCEMIC INDEX ON CARDIOVASCULAR AND METABOLIC RISK FACTORS**
G. Hoffmann, Department of Nutritional Sciences, University of Vienna, Vienna, Austria
- PO1877 COMPARISON OF LONG-TERM LOW-FAT VS. HIGH-FAT DIETS ON GLYCEMIC CONTROL AND CARDIOVASCULAR RISK FACTORS IN SUBJECTS WITH ABNORMAL GLUCOSE METABOLISM: A SYSTEMATIC REVIEW AND META-ANALYSIS**
L. Schwingshackl, University of Vienna, Dept. of Nutritional Sciences, Vienna, Austria
- PO1878 EVALUATION OF THE NUTRITIONAL STATUS AND DIETARY PATTERNS OF PERSONS LIVING WITH HIV/AIDS ON HAART IN NGAOUNDERE, CAMEROON**
F E. Ngoinangeh, Regional Delegation of Health, Ngaoundere, Cameroon
- PO1879 SAFETY AND EFFICACY OF FORTIFICATION VERSUS FORTIFICATION PLUS SUPPLEMENTATION WITH IRON IN AFRICAN PREGNANT WOMEN: A RANDOMISED CONTROLLED TRIAL**
M N. Mwangi, Department of Nutrition and Health, Maseno University, Maseno, Kenya
- PO1880 THE OVERVIEW OF PREVALENCE OF OVERWEIGHT/OBESITY AMONG CHILDREN AND ITS RISK FACTORS IN CHINA**
H. Xue, Department of Nutrition and Food Safety, West China School of Public Health, Sichuan University, Chengdu, China
- PO1881 IMPACT OF CARICA PAPAYA MEAL ON SERUM CHOLESTEROL AND SOME OXIDATIVE STRESS ENZYMES IN RATS**
H. Iyawe, Ambrose Alli University Ekpoma, Ekpoma, Nigeria
- PO1882 OMEGA-3 FATTY ACIDS IMPROVE OXIDATIVE STRESS IN WOMEN WITH POLYCYSTIC OVARY SYNDROME**
M. Rafraf, Department of Community Nutrition, Faculty of Nutritin, Tabriz University of Medical Sciences, Tabriz, Iran

- PO1883 NUTRITIONAL PATTERN AND VISCERAL OBESITY ASSOCIATION IN MIDDLE AGE EGYPTIAN WOMEN**
N E. Hassan, Biological Anthropology Department, National Research Centre, Cairo, Egypt
- PO1884 OXIDATIVE DAMAGE, AGEING AND DEGENERATIVE DISEASES IN WJIN OBESE RATS**
H. Nemani, National Centre for Laboratory Animal Science, National Institute of Nutrition, Hyderabad, India
- PO1885 THE EFFECTIVENESS OF NUTRITION EDUCATION AMONG OUTPATIENTS WITH TYPE 2 DIABETES MELLITUS IN JUMPANG BARU MAKASSAR HEALTH CENTER, INDONESIA**
S K. Hamid, Nutrition Departement, Departement of public health Hasanuddin of University, Makassar, Indonesia
- PO1886 OXIDATIVE STRESS, PROBIOTICS AND CARDIOVASCULAR DISEASES**
M. Zilmer, Department of Biochemistry, Tartu University, Tartu, Estonia
- PO1887 DOSAGE EFFECTS OF QUERCETIN ON HIPPOCAMPUS-DEPENDENT LEARNING AND MEMORY IN MICE FED WITH HIGH FAT DIETS**
L. Guowei, The State Key Laboratory of Food Science and Technology, JiangNan University, Wuxi, China
- PO1888 ELEVATED PLASMA MALONDIALDEHYDE AND ADVANCED OXIDATION PROTEIN PRODUCTS IN ADULTS WITH DYSLIPIDEMIA**
L. Guowei, The State Key Laboratory of Food Science and Technology, JiangNan University, Wuxi, China
- PO1889 INTER-RELATIONSHIP OF OXIDATIVE STRESS MARKERS AND THYROID HORMONES IN PREDICTING METABOLIC SYNDROME IN ADULT MEN**
L. Guowei, The State Key Laboratory of Food Science and Technology, JiangNan University, Wuxi, China
- PO1890 THE ALLEVIATING EFFECT OF FERMENTED WHEY PRODUCT TO THE MALE PATIENTS WITH LOWER URINARY TRACT SYMPTOMS**
T. Kullisaar, Department of Biochemistry, University of Tartu, Tartu, Estonia
- PO1891 THE EFFECT OF NUTRITIONAL THERAPY ON QUALITY OF LIFE IN STABLE CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)**
S. Metin, Baskent University, Faculty of Health Sciences, Department of Nutrition and Dietetics, Ankara, Turkey
- PO1892 NUTRITIONAL SUPPORT WITH OMEGA-3 RICH DIETS IMPROVE INFLAMMATION, RESPIRATORY FUNCTIONS AND EXERCISE CAPACITY IN STABLE COPD**
S. Metin, Baskent University, Faculty of Health Sciences, Department of Nutrition and Dietetics, Ankara, Turkey
- PO1893 LIVER ENZYMES AND CARDIOMETABOLIC RISK FACTORS IN EUROPEAN ADOLESCENTS; THE HELENA STUDY**
I. Labayen, Department of Nutrition and Food Science, University of the Basque Country, Vitoria, Spain
- PO1894 INFLUENCE OF WEIGHT STATUS ON CARDIOVASCULAR AND LIPID PROFILE IN MOROCCAN OLDER ADULT WOMEN**
V A. Aparicio, Department of Physiology and Institute of Nutrition and Food Technology, Faculty of Pharmacy and School of Sport Sciences, University of Granada, Granada, Spain
- PO1895 PREVALENCE OF OVERWEIGHT/OBESITY IN RELATION TO HEIGHT FOR AGE IN CAMEROONIAN CHILDREN.**
L. Navti, Department of Biological Sciences, Catholic University of Cameroon, Bamenda, Cameroon
- PO1896 OXIDANT AND ANTIOXIDANT STATUS IN CHRONIC RENAL FAILURE PATIENTS**
H F. Tbahril, Laboratoire de Nutrition Clinique et Metabolique, Faculte des Sciences, Universite D'Oran, Oran, Algeria
- PO1897 RESVERATROL INHIBITED FAT INDUCED DYSBACTERIA IN SYSTEM MIMICKING COLON FERMENTATION**
J. Sun, The State Key Laboratory of Food Science and Technology, JiangNan University, Wuxi, China
- PO1898 SERUM URIC ACID LEVELS OF SECONDARY SCHOOL-AGE STUDENTS IN NORTHERN AND SOUTHERN REGIONS OF THAILAND**
W. Suttikomin, Graduate Program In Nutrition, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Nakhon Pathom, Thailand
- PO1899 GLUTAMINE ADMINISTRATION MODULATES LUNG $\gamma\delta$ T CELL EXPRESSION IN SEPTIC MICE**
Y M. Hu, School of Nutrition and Health Sciences, Taipei Medical University, Taipei, Taiwan
- PO1900 DISCOVERY OF A LOW GLYCEMIC INDEX POTATO AND RELATION BETWEEN IN VITRO STARCH DIGESTION AND GLYCEMIC RESPONSE**
K. Ek, Boden Institute of Obesity, Nutrition & Exercise and the School of Molecular Bioscience, The University of Sydney, Sydney, Australia
- PO1901 ANDROGRAPHOLIDE SUPPRESSES TNF- α INDUCED OXIDATIVE STRESS BY MODULATING CELLULAR ANTIOXIDATION IN HUMAN ENDOTHELIAL CELLS**
L. Chia-Yang, School of Nutrition, Chung Shan Medical University, Taichung, Taiwan
- PO1902 DIETARY QUERCETIN ATTENUATES OXIDANT-INDUCED ENDOTHELIAL DYSFUNCTION AND ATHEROSCLEROSIS IN APOE KO MICE FED A HIGH-FAT DIET**
N. Ward, School of Medicine & Pharmacology, University of Western Australia, Perth, Australia
- PO1903 EFFECTS OF DIFFERENT AMOUNTS AND TYPES OF DIETARY FATTY ACIDS ON BODY WEIGHT, FAT ACCUMULATION AND LIPID METABOLISM IN DIET-INDUCED OBESE HAMSTERS**
Y W. Chien, Taipei Medical University, Taipei City, Taiwan
- PO1904 ESTIMATE OF A MINERAL COMPOSITION FOR AN ORAL FOOD COMPLEMENT TO HOSPITALIZED ONCOLOGIC PATIENTS**
K. Diego Quintaes, Ouro Preto Federal University, Nutrition School, Ouro Preto, Brazil
- PO1905 NUTRITIONAL EVALUATION OF DAILY INTAKE IN ALZHEIMER'S PATIENTS**
J M. Rubio-Perez, Department of Food Technology & Nutrition, Catholic University of San Antonio, Murcia, Spain
- PO1906 AN UNDIGESTED GLIADIN PEPTIDE ACTIVATES INNATE IMMUNITY AND PROLIFERATIVE SIGNALLING IN ENTEROCYTES: ROLE IN CELIAC DISEASE**
M. Nanayakkara, Department of Pediatrics and ELFI, University of Naples Federico II, Naples, Italy
- PO1907 ADHERENCE TO THE MEDITERRANEAN DIET AND RISK OF BLADDER CANCER IN THE EUROPEAN PROSPECTIVE INVESTIGATION INTO CANCER AND NUTRITION**
G. Buckland, Unit of Nutrition, Environment and Cancer, Cancer Epidemiology Research Programme, Catalan Institute of Oncology (ICO-IDIBELL), Barcelona, Spain
- PO1908 DIABETES KNOWLEDGE EVALUATION IN TYPE 2 DIABETIC PATIENTS**
M. Dominguez-Lopez, Endocrinology and Nutrition Service, Carlos Haya Hospital, Malaga, Spain
- PO1909 ASSOCIATIONS BETWEEN FTO GENE POLYMORPHISM, DIET, PHYSICAL ACTIVITY, AND BODY MASS INDEX IN LITHUANIAN ADULT POPULATION**
J. Petkeviciene, Department of Preventive Medicine, Lithuanian University of Health Sciences, Kaunas, Lithuania
- PO1910 USE OF WAIST TO HEIGHT RATIO IN ASSESSING METABOLIC DERANGEMENTS AMONG NORMAL AND OVERWEIGHT/OBESE INDIVIDUALS**
V P. Wickramasinghe, Department of Paediatrics, University of Colombo, Colombo, Sri Lanka

- PO1911 SELENIUM DEFICIENCY IN ASYMPTOMATIC HIV-INFECTED ADULTS**
M. Stambullian, Department of Nutrition, School of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, Argentina
- PO1913 BODY FAT AND INFLAMMATION IN CUBAN SCHOOL CHILDREN**
M. Hernandez-Triana, Department of Biochemistry and Physiology, Institute of Nutrition, La Habana, Cuba
- PO1914 THE MEDITERRANEAN DIET IMPROVES THE LOW-DENSITY LIPOPROTEIN PARTICLE SIZE PHENOTYPE IN MEN WITH METABOLIC SYNDROME**
C. Richard, Institute of Nutrition and Functional Foods, Laval University, Quebec, Canada
- PO1915 ARTHROSPIRA PLATENSIS AS NUTRITION SUPPLEMENT FOR ADULTS INFECTED BY THE HUMAN IMMUNODEFICIENCY VIRUS**
F. Winter, Institute of International Nutrition, University of Giessen, Giessen, Germany
- PO1916 EFFECTS OF MESEMBRYBRYANTHEMUM FORSSKALEI HOCHST SEEDS IN STREPTOZOTOCIN-INDUCED DIABETIC RATS**
N. Alfaris, Department of Nutrition and Food Science, Princess Nora University, Riyadh, Saudi Arabia
- PO1917 ADVANCED GLYCATION END-PRODUCTS IN THE DIET AND RELATION WITH GLYCATED HAEMOGLOBIN LEVELS IN DM2 INDIVIDUALS**
D. Godoy, Carrera Nutricion y Dietetica, Universidad de Valparaiso, Valparaiso, Chile
- PO1918 ANTI-HYPERGLYCEMIC EFFECT OF VANILLIC ACID IN HIGH-FAT DIET INDUCED PREDIABETIC RATS**
S. C. Shen, Department of Human Development and Family Studies, National Taiwan Normal University, Taipei, Taiwan
- PO1919 RELATIONSHIP BETWEEN MRNA LEVELS OF LEUKOCYTE ZINC TRANSPORTERS AND INFLAMMATORY MARKERS IN THE OBESE KOREAN WOMEN**
J. Kim, Graduate School of East-West Medical Science, Kyung Hee University, Yongin, South Korea
- PO1920 VITAMIN B6 ELEVATES EXPRESSION OF IGFBP1, AN ANTI-TUMOR FACTOR, IN HEPG2 HEPATOMA CELLS**
S. Suidasari, Graduate School of Biosphere Science, Hiroshima University, Higashi-hiroshima, Hiroshima, Japan
- PO1921 EFFECTS OF RICE PROTEIN ON GLUCOSE HOMEOSTASIS AND DIABETIC NEPHROPATHY IN OBESE DIABETIC ZDF RATS**
M. Kubota, Center for Transdisciplinary Research, Niigata University, Niigata, Japan
- PO1922 EFFECTS OF SEVEN SELECTED COMPOUNDS IN TRADITIONAL ANTI-DIABETIC CHINESE HERB MEDICINE ON TH1/TH2 CYTOKINE SECRETIONS USING MOUSE PRIMARY SPLENOCYTES**
P. C. Chou, Department of Food Science and Biotechnology, National Chung Hsing University, Taichung, Taiwan
- PO1923 RICE PROTEIN AMELIORATES PROGRESSION OF DIABETIC NEPHROPATHY IN NON-OBESE DIABETIC GK RATS**
R. Watanabe, Department of Health and Nutrition, University of Niigata Prefecture, Niigata, Japan
- PO1924 ANTIOXIDANT CAPACITY AND MINERAL CONTENTS OF FIVE SPECIES OF CUCURBITACEAE SEEDS FROM CAMEROON**
M. B. Achu Loh, Department of Biochemistry, Faculty of Science, University of Yaounde I, Yaounde, Cameroon
- PO1925 THE WEIGHT OF ALGERIAN CHILDREN IS MOVING TOWARDS OBESITY**
C. C. Mekhancha-Dahel, Universite Constantine 1, ALNUTS, INATAA, Constantine, Algeria
- PO1926 DIETARY PATTERNS AND LIPID LEVELS IN A LITHUANIAN ADULT POPULATION**
V. Kriaucioniene, Department of Preventive Medicine, Lithuanian University of Health Sciences, Kaunas, Lithuania
- PO1927 GLYCEMIC INDEX, GLYCEMIC LOAD, AND FIBER INTAKE AND RISK OF ADENOCARCINOMAS AND SQUAMOUS CELL CARCINOMAS OF THE ESOPHAGUS**
P. H. Lahmann, School of Population Health, University of Queensland, Herston Road, Herston, Australia
- PO1928 CALCIUM INTAKE IN PATIENTS WITH MUSCULOSKELETAL DISEASES**
T. Nestares, Department of Physiology, University of Granada, Granada, Spain
- PO1929 EFFECT OF A CARDIAC REHABILITATION PROGRAM ON THE EVOKED INFLAMMATORY SIGNALING AS A RISK FACTOR IN PATIENTS WITH CARDIOVASCULAR DISEASE**
M. Lopez Frias, Department of Physiology, University of Granada, Granada, Spain
- PO1930 ANTI-HYPERGLYCEMIC AND ANTI-OBESITY EFFECT OF ICHNOCARPUS FRUTESCENS, LINN. ON STREPTOZOTOCIN INDUCED DIABETIC RATS**
S. Manikonda, Crop Protection Chemicals Division, Indian Institute of Chemical Technology, Hyderabad, India
- PO1931 CATALASE POLYMORPHISMS IN CHILDHOOD OBESITY**
A. I. Ruperez, Department of Biochemistry and Molecular Biology II, University of Granada, Granada, Spain
- PO1932 NUTRITIONAL STATUS AND INTERVENTIONS IN CHILDREN HOSPITALIZED FOR PLEURAL EMPYEMA**
K. Huysentruyt, Department of Pediatrics, UZ Brussel, Brussels, Belgium
- PO1933 EFFECT OF DIETARY PROTEIN AND GLYCEMIC INDEX ON METABOLIC SYNDROME STATUS: THE DIOGENES RANDOMIZED CONTROLLED TRIAL**
A. Papadaki, Centre for Exercise, Nutrition and Health Sciences, University of Bristol, Bristol, UK
- PO1934 SPECIFIC PLASMA PROTEINS IN PATIENTS SUFFERING FROM HEAD AND NECK CANCER WITH OR WITHOUT NUTRITIONAL SUPPORT. PRELIMINARY STUDY**
O. Casbarien, Angel Roffo Institute, Buenos Aires, Argentina
- PO1935 HYPOGONADISM IS AN EARLY EVENT IN THE DEVELOPMENT OF METABOLIC SYNDROME IN FRUCTOSE-FED RAT**
S. Anil, National Institute of Nutrition, Andhra Pradesh, Hyderabad, India
- PO1936 UNYDIET: A GLOBAL COMPUTER PROGRAM DEVELOPED TO PERSONALIZE NUTRITIONAL ASSESSMENT WITH UPDATED FUNCTIONS**
L. Garcia De Diego, Department of Food Sciences and Physiology, University of Navarra, Pamplona, Spain
- PO1937 DETERMINING ENERGY AND PROTEIN REQUIREMENTS BY INDIRECT CALORIMETRY AND 24-HOUR URINARY UREA NITROGEN IN ADULT PATIENTS WITH SKELETAL FRACTURES**
M. Ruiz, Universidad Del Bio-Bio, Chillan, Chile
- PO1938 HYPOCALORIC DIET WITH CARBOHYDRATE EATEN MOSTLY AT LUNCH AND PROTEIN MOSTLY AT DINNER INCREASES FASTING SERUM GLUCOSE**
R. D. M. Alves, Department of Nutrition and Health, Federal University of Viçosa, Viçosa, Brazil
- PO1939 THE RELATIONSHIP BETWEEN BREASTFEEDING AND POSTPARTUM WEIGHT LOSS - A SYSTEMATIC REVIEW AND CRITICAL EVALUATION**
C. Neville, Centre for Public Health, Queen's University Belfast, Belfast, UK
- PO1940 EFFECT OF LOW-CARBOHYDRATE RESTRICTED DIET AND MODERATE CALORIC RESTRICTION ON HYPERGLYCEMIA, DYSLIPIDEMIA AND REVERSE CHOLESTEROL TRANSPORT IN OBESE RAT**
S. Louala, Departement de Biologie, Laboratoire de Nutrition Clinique et Metabolique (LNCM), Universite d'Oran, Oran, Algeria

- PO1941 THE EFFECT OF POMEGRANATE EXTRACT AND JUICE INTAKE ON SATIETY PARAMETERS IN HUMAN VOLUNTEERS: A PILOT STUDY**
A. Stockton, Dietetics, Nutrition & Biological Sciences, Queen Margaret University, Edinburgh, UK
- PO1942 ANALYSIS OF DETECTION AND NUTRITIONAL APPROACH IN INTESTINAL HIGH-OUTPUT STOMAS**
J.J. Arenas Villafranca, Pharmacy and Nutrition Department, Hospital Costa Del Sol, Marbella, Spain
- PO1943 EARLY PREDICTION OF DIETARY WEIGHT LOSS THERAPY EFFECTIVENESS**
B. Jablonowska-Lietz, Promotion Centre of Healthy Nutrition and Physical Activity, National Food and Nutrition Institute, Warsaw, Poland
- PO1944 ADIPONECTIN AND PREDICTION OF THE EFFECTIVENESS OF WEIGHT LOSS THERAPY**
B. Jablonowska-Lietz, Promotion Centre of Healthy Nutrition and Physical Activity, National Food and Nutrition Institute, Warsaw, Poland
- PO1945 MA-PI MACROBIOTIC DIET AND TYPE 2 DIABETES. MULTICENTRIC STUDY**
C. Porrata-Maury, Macrobiotic Diet Service, Finlay Institute, La Habana, Cuba
- PO1946 SUGAR INTAKE IN CUBAN CHILDREN AND ADOLESCENTS**
I. Puentes, Department of Communitarian Nutrition, Institute of Nutrition and Food Hygiene, La Habana, Cuba
- PO1947 THYROID HORMONE PRODUCTION IS ASSOCIATED WITH THE DIFFERENCE IN METABOLIC MARKERS BETWEEN OBESE AND OBESITY RESISTANT MICE**
J. Zhen, State Key Laboratory of Food Science and Technology, Jiangnan University, Wuxi, Jiangsu, China
- PO1948 BODY FAT MASS DETERMINATION OF ARGENTINEAN CHILDREN BY DEUTERIUM DILUTION TECHNIQUE AND ITS RELATIONSHIP TO LIPID PROFILE**
I. Fernandez, Department of Nutrition, Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Argentina
- PO1949 GLUTAMINE MODULATES CHANGES TO SMALL INTESTINAL INTRAEPITHELIAL $\gamma\delta$ T LYMPHOCYTE EXPRESSION IN MICE WITH ACUTE DSS-INDUCED COLITIS**
M.H. Pai, Department of Anatomy, Taipei Medical University, Taipei, Taiwan
- PO1950 EFFICACY OF A LIFESTYLE INTERVENTION PROGRAM USING HEALTHY PLATE FOR TREATING DIABETIC SUBJECTS WITH OBESITY: A RANDOMIZED CONTROLLED TRIAL**
T. Yamauchi, Division of Preventive Medicine, Kyoto Medical Center, Kyoto, Japan
- PO1951 EFFECT OF ANDROGRAPHOLIDE ON STREPTOZOTOCIN-INDUCED DIABETIC CATARACT IN SPRAGUE-DAWLEY RATS**
R.N. Ramavat, National Centre For Laboratory Animal Science, National Institute of Nutrition, Hyderabad, India
- PO1952 POSTPRANDIAL EFFECTS OF POTASSIUM SUPPLEMENTATION ON VASCULAR FUNCTION AND BLOOD PRESSURE**
N. Blanch, School of Pharmacy and Medical Science, University of South Australia, Adelaide, Australia
- PO1953 PREVALENCE OF INSULIN RESISTANCE IN AN OBESE EGYPTIAN YOUNG POPULATION**
M. Zaki, National Research Centre, Biological Anthropology Department, Medical Research Division, Cairo, Egypt
- PO1954 THE EFFECT OF SPARC ON INSULIN-SENSITIVE GLUCOSE METABOLISM IN SKELETAL MUSCLE**
N. Hirano, Laboratory of Health Science, Graduate School of Life and Environmental Sciences, Kyoto Prefectural University, Kyoto, Japan
- PO1955 GENETIC LINKAGE BETWEEN FATTY ACID DESATURASE POLYMORPHISM AND OBESITY IN A SOUTHERN ITALY POPULATION**
B. Varriale, Department Experimental Medicine, Lab. Molecular Genetics, Second University of Naples, Naples, Italy
- PO1956 CARBOHYDRATE DEPRIVATION AND BODY WEIGHT IN THYROID AUTOIMMUNITY**
T. Esposito, Department Experimental Medicine, Dietetics, Faculty of Medicine, Second University of Naples, Naples, Italy
- PO1957 PREVALENCE AND RELATED KNOWLEDGE OF HYPERTENSION AMONG ADULTS OF SHIJIAZHUANG**
F. Chen, Shijiazhuang Center For Disease Prevention and Control, Shijiazhuang, Hebei, China
- PO1958 CONVERSION OF GASTRIC BYPASS TO SLEEVE AS A TREATMENT OF SEVERE AND PERSISTENT HYPOGLYCEMIA**
M. Gonzalo-Marin, Endocrinology and Nutrition Service, Carlos Haya Hospital, Malaga, Spain
- PO1959 PROCESSED FOOD CONSUMPTION AND ESOPHAGEAL SQUAMOUS CELL CARCINOMA IN CHINESE**
S. Lin, The Chinese University of Hong Kong, Hong Kong, China
- PO1960 PLASMA RETINOL BINDING PROTEIN STATUS IN RELATION TO OCULAR CHANGES IN CYSTIC FIBROSIS PATIENTS TREATED WITH VITAMIN A SUPPLEMENTS**
M. Mrugacz, Department of Pediatric Ophthalmology, Medical University of Bialystok, Bialystok, Poland
- PO1961 FRIED FOODS CONSUMPTION AND THE INCIDENCE OF HYPERTENSION IN A SPANISH COHORT: THE SUN STUDY**
C. Sayon-Orea, Dept. of Preventive Medicine and Public Health, University of Navarra, Pamplona, Spain, CIBER Fisiopatología de la Obesidad y Nutrición (CIBERObn), Instituto de Salud Carlos III, Madrid, Spain
- PO1962 DIETARY INTAKE OF ACRYLAMIDE AND OESOPHAGEAL CANCER (OC) RISK IN THE EUROPEAN PROSPECTIVE INVESTIGATION INTO CANCER AND NUTRITION (EPIC) COHORT**
L. Lujan-Barroso, Unit of Nutrition, Environment and Cancer, Catalan Institute of Oncology (ICO-IDIBELL), Barcelona, Spain
- PO1963 DIETARY INTAKE OF ACRYLAMIDE AND PANCREATIC CANCER RISK IN THE EUROPEAN PROSPECTIVE INVESTIGATION INTO CANCER AND NUTRITION (EPIC) COHORT**
M. Obon-Santacana, Unit of Nutrition, Environment and Cancer, Cancer Epidemiology Research Program, Catalan Institute of Oncology (ICO-IDIBELL), Barcelona, Spain
- PO1964 CHANGES IN MICROBIOTA AND EPIGENETIC METHYLATION OF INFLAMMATION RELEVANT GENES IN TYPE 2 DIABETES AND OBESITY**
M. Remely, Dep. Nutritional Sciences, Univ. of Vienna, Vienna, Austria
- PO1965 IS THE ONE-ANASTOMOSIS GASTRIC BYPASS (OAGB) USEFUL IN NORMALIZING WEIGHT, BMI AND LIPID PROFILE IN THE SHORT AND THE MEDIUM TERMS?**
M.J. Castro, Institute Endocrinology Nutrition (IENVA), University of Valladolid, Valladolid, Spain
- PO1966 EFFECTS OF LIFESTYLE INTERVENTION AND MEAL REPLACEMENT ON GLYCEMIC AND BODY WEIGHT CONTROL IN CHINESE SUBJECTS WITH IMPAIRED GLUCOSE REGULATION**
D. Xu, Clinical Nutrition Center, Huadong Hospital, Fudan University, Shanghai, China
- PO1967 IMPROVEMENT OF THE PLASMA AND ERYTHROCYTES LIPID PROFILE IN OVERWEIGHT/OBESE AND DYSLIPIDEMIC PATIENTS AFTER CONSUMPTION OF A NATURALLY PUFA-ENRICHED CHEESE**
M.V. Calvo, Instituto de Investigación en Ciencias de la Alimentación (CIAL), CSIC-UAM, Madrid, Spain
- PO1968 AN EVALUATION OF SATIETY, AND WEIGHT CHANGES FOR THE TREATMENT OF PRIMARY OBESITY WITH THE P.O.S.E PROCEDURE**
M. Sanchez Bohorques, Unidad de Endoscopia y Pruebas Funcionales Digestivas, Centro Medico Teknon, Barcelona, Spain

- PO1969 ALKYLRESORCINOLS (BIOMARKERS OF WHOLE-GRAIN INTAKE) AND RISK OF COLORECTAL CANCER IN THE EUROPEAN PROSPECTIVE INVESTIGATION INTO CANCER AND NUTRITION**
C. Kyro, Danish Cancer Society Research Center, Danish Cancer Society, Copenhagen, Denmark
- PO1970 ASSOCIATION BETWEEN PROTEIN INTAKE AND OBESITY AMONG CHILDREN**
J. Armstrong, Glasgow Caledonian University, Scotland, UK
- PO1971 EXCESS WEIGHT AND BREAST DENSITY AT PUBERTY, AN UNKNOWN ASSOCIATION: EVIDENCE FROM THE GROWTH AND OBESITY CHILEAN COHORT**
A. Pereira, Institute of Nutrition and Food Technology, University of Chile, Santiago, Chile
- PO1972 WAIST CIRCUMFERENCE AS PREDICTOR FACTOR FOR LOW-GRADE INFLAMMATION IN MIDDLE-AGED BRAZILIAN MEN**
A. Oliveira, Department of Sciences of Physical Education and Health, Federal University of São João del Rei, São João del Rei, Minas Gerais, Brazil
- PO1973 THE CONSUMPTION OF LEGUMES AND WHITE MEATS IS RELATED WITH ADIPOSITY AND LIPID BIOMARKERS: CROSS-SECTIONAL STUDY IN MIDDLE-AGED BRAZILIAN MEN**
P G. Cocate, Departament of Nutrition and Health, Federal University of Viçosa, Viçosa, Minas Gerais, Brazil
- PO1974 BODY FAT, INFLAMMATION AND GUT MICROBIOTA IN CUBAN ADOLESCENTS**
V. Ruiz-Alvarez, Department of Biochemistry and Physiology, Institute of Nutrition and Food Hygiene, La Habana, Cuba
- PO1975 B-VITAMINS AND BONE HEALTH AMONG COELIAC DISEASE PATIENTS**
M. Clarke, Northern Ireland Centre for Food and Health, University of Ulster, Coleraine, Northern Ireland
- PO1976 PREVALENCE OF METABOLIC SYNDROME IN INDIAN ADULTS FROM MUMBAI CITY AND ITS CORRELATION TO THEIR DIETARY PATTERN**
R. Battalwar, Department of Food and Nutrition, SVT College of HomeScience, SNDT Women's University, Mumbai India
- PO1977 EFFECT OF DIET ON LIPIDS BLOOD LEVELS**
M. Lara, School of Public Health, Faculty of Medicine, University of Chile, Santiago, Chile
- PO1978 THE ASSOCIATION BETWEEN URINARY SODIUM AND POTASSIUM EXCRETION AND CAROTID INTIMA MEDIA THICKNESS IN PEOPLE WITH DIABETES**
K S. Petersen, School of Pharmacy and Medical Sciences, University of South Australia, Adelaide, Australia
- PO1979 PERCENTILES OF FRUIT AND VEGETABLE INTAKE ACCORDING TO AGE AND NUTRITIONAL STATUS IN ADULTS AND ELDERLY IN SÃO PAULO, BRAZIL**
J. Pereira, Departamento de Nutrição, Faculdade de Saude Publica, Universidade de São Paulo, São Paulo, Brazil
- PO1980 RISK FACTOR OF IRON INTAKE, CALCIUM INHIBITOR AND BIRTH SPACE TO INCIDENT OSTEOPOROSIS FOR PREGNANT WOMEN**
H. Hardinsyah, Nutrition Departement, Health Polytechnic of Malang, Malang, Indonesia
- PO1981 EFFECT OF CALCIUM SUPPLEMENTATION ON BONE MASS AND CALCIUM METABOLISM IN ADOLESCENTS, LACTATING AND POSTMENOPAUSAL WOMEN: A 2-YEAR RANDOMIZED TRIAL**
Y. Chen, Department of Medical Statistics & Epidemiology, Sun Yat-sen University, Guangzhou, China
- PO1982 GLYCEMIC RESPONSES FOLLOWING A MIXED-MEAL TOLERANCE TEST AMONG CHINESE, MALAY AND ASIAN-INDIANS IN SINGAPORE**
V. Tan, Clinical Nutrition Research Centre, Singapore Institute For Clinical Sciences, A*STAR, Singapore
- PO1983 GLUTAMINE ADMINISTRATION MODULATES T LYMPHOCYTE POLARIZATION IN DEXTRAN SULFATE SODIUM-INDUCED COLITIS**
C. Hsiung, School of Nutrition and Health Sciences, Taipei Medical University, Taipei, Taiwan
- PO1984 EFFECTS OF EICOSAPENTAENOIC ACID AND DOCOSAHEXAENOIC ACID ON PROSTATE CANCER CELL MIGRATION INDUCED BY TUMOR-ASSOCIATED MACROPHAGE**
C C. Li, School of Nutrition and Health Sciences, Taipei Medical University, Taipei, Taiwan
- PO1985 GABA TEA ON CARDIAC FIBROSIS AND FAS DEATH RECEPTOR DEPENDENT APOPTOTIC PATHWAY IN STREPTOZOTOCIN-INDUCED DIABETIC RATS**
S H. Cherng, Department of Biotechnology, Hungkuang University, Taichung, Taiwan
- PO1986 BETTER BITTER GOURD: A HOLISTIC EVIDENCE- AND FOOD-BASED APPROACH TO MANAGE TYPE-2 DIABETES AND PROMOTE HEALTH IN DEVELOPING COUNTRIES**
R Y. Yang, Nutrition, AVRDC - The World Vegetable Center, Shanhua, Tainan, Taiwan
- PO1987 SATISFACTION WITH CLINICAL USE OF CONTINUOUS GLUCOSE MONITORING SYSTEM (CGMS) IN JAPANESE PEOPLE WITH DIABETES AND WITH NORMAL GLUCOSE TOLERANCE**
S. Imai, College of Health and Human Science, Osaka Prefecture University, Osaka, Japan
- PO1988 TEN-YEAR CARDIOVASCULAR RISK PREDICTION AMONG 194 THAI MIDDLE-AGED ADULTS**
S. Putadechakum, Research Center, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
- PO1990 DIABETES: A RISING PROBLEM IN TANZANIA. WHAT CAN WE DO?**
C. Ludwig, Institute of International Nutrition, Justus-Liebig-University Giessen, Giessen, Germany
- PO1991 FOOD AND ALCOHOL INTAKE IN JAPANESE TYPE 2 DIABETES**
Y. Takano, Prefectural University of Kumamoto, Kumamoto, Japan
- PO1992 THE DEVELOPMENT OF A PORTABLE MEAL CARD TO COMPLEMENT NUTRITION EDUCATION FOR PERSONS WITH DIABETES**
K. Fujisawa, Department of Food and Nutrition, Okayama Gakuin University, Kurashiki, Japan
- PO1994 KNOWLEDGE AND PRACTICES ON HOME MANAGEMENT OF DIARRHEA (HMD) AMONG CAREGIVERS OF CHILDREN 6-24 MONTHS IN URBAN AREA JAKARTA**
Y. Novrianto, Seameo Recfon, Faculty Medicine University of Indonesia, Jakarta, Indonesia
- PO1995 EFFECTS OF DIETARY MANAGEMENT AFTER BARIATRIC SURGERY ON BODY COMPOSITION CHANGES IN TAIWAN**
I C. Cheng, Comprehensive Weight Management Center, Taipei Medical University, Taipei, Taiwan
- PO1996 NUTRITIONAL STATUS OF HOSPITALIZED CANCER PATIENTS IN TAIWAN**
I C. Cheng, Comprehensive Weight Management Center, Taipei Medical University, Taipei, Taiwan
- PO1997 EATING RATE IS ASSOCIATED WITH EATING BEHAVIORS ACCORDING TO GENDER AND OBESITY**
S. Park, Department of Oriental Medical Food and Nutrition, Semyung University, Chungcheongbuk-do, Republic of Korea
- PO1998 PERCEPTIONS AND SATISFACTION ON HOSPITAL FOODSERVICE AND DIETARY INTAKE AMONG HOSPITALIZED DIABETIC DIET RECEIVERS**
R. Jamaluddin, Universiti Putra Malaysia, Selangor Darul Ehsan, Malaysia

- PO1999 OVERWEIGHT AND OBESITY TRENDS AMONG ELDERLY MEN LIVING IN UMLAZI -DURBAN SOUTH AFRICA**
X. Mkhize, Mangosuthu University of Technology, Umlazi, South Africa
- PO2000 BETAINE IMPROVES GENOMIC HYPOMETHYLATION AND ALLEVIATES THE HEPATIC STEATOSIS INDUCED BY HIGH FAT DIET IN MICE**
H. Zhu, Department of Nutrition, Sun Yat-Sen University, Guangzhou, Guangdong, China
- PO2001 BODY ADIPOSITY INDEX IS A GOOD PREDICTOR FOR INCIDENT HYPERTENSION IN ADULTS**
D. Moliner-Urdiales, Department of Education, University Jaume I, Castellon, Spain
- PO2002 ASSOCIATION BETWEEN BODY ADIPOSITY INDEX AND CARDIOVASCULAR DISEASE RISK FACTORS IN ADULTS: THE AEROBICS CENTER LONGITUDINAL STUDY**
D. Moliner-Urdiales, University Jaume I, Castellon, Spain
- PO2003 THE IMPACT OF OBESITY ON SPIROMETRIC LUNG FUNCTION OF THAI SCHOOL AGED CHILDREN**
U. Udomsubpayakul, Section for Clinical Epidemiology & Biostatistics, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
- PO2004 DIETARY RESTRAINT AND COMPLIANCE TO EXERCISE REGIMEN ARE KEY PREDICTORS OF WEIGHT LOSS**
S Q. Chen, Department of Obstetrics & Gynaecology, National University of Singapore (NUS), Singapore
- PO2005 ENVIRONMENTAL FACTORS ASSOCIATED WITH OVERWEIGHT AND OBESITY IN UNIVERSITY STUDENTS OF THE BASQUE COUNTRY**
I. Donis, Department of Pharmacy and Food Sciences, Faculty of Pharmacy, University of the Basque Country UPV/EHU, Vitoria-Gasteiz, Spain
- PO2006 DIET QUALITY AND LIFESTYLE IN COLORECTAL CANCER PATIENTS POST-SURGERY: A PILOT STUDY**
M. Escalante, Department of Digestive, Alava University Hospital-Santiago Apostol, Osakidetza, Vitoria-Gasteiz, Spain
- PO2007 METABOLIC AND MORPHOLOGIC COMPLICATIONS ASSOCIATED WITH HIV INFECTION AND ANTIRETROVIRAL MEDICATION: A SURVEY IN MALAYSIA**
N. Hejazi, Department Nutrition and Dietetics, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Serdang, Selangor Darul Ehsan, Malaysia
- PO2008 INVESTIGATION OF LYCOPENE INTAKE IN THE DIFFERENT LITHUANIAN ETHNOLINGUISTIC GROUPS**
A. Mazeikiene, Faculty of Medicine, Vilnius University, Vilnius, Lithuania
- PO2009 NUTRITIONAL STATUS OF PATIENTS WITH CARDIOVASCULAR DISEASES IN HOSPITALS**
M. Jarosz, National Food and Nutrition Institute, Warsaw, Poland
- PO2010 PROSTATE CANCER MORBIDITY AND CHANGES IN THE DIET IN POLAND IN THE YEARS 1970-2010**
M. Jarosz, National Food and Nutrition Institute, Warsaw, Poland
- PO2011 EFFECT OF KALE JUICE SUPPLEMENTATION ON THE LYMPHOCYTE DNA DAMAGE OF KOREAN SUBCLINICAL HYPERTENSIVE PATIENTS**
M H. Kang, Dept. of Food and Nutrition, Hannam University, Daejeon, South Korea
- PO2012 DARK CHOCOLATE RICH IN POLYPHENOLS AND ITS INFLUENCE ON BLOOD PRESSURE AND BMI IN NORMOTENSIVE ADULTS: A PRELIMINARY STUDY**
G. Farhat, Department of Dietetics, Nutrition and Biological Sciences, Queen Margaret University, Musselburgh, UK
- PO2013 NUTRITIONAL STATUS OF PATIENTS WITH OBSTRUCTIVE SLEEP APNEA SYNDROME (OSAS) TREATED BY POSITIVE AIRWAY PRESSURE (PAP)**
P. Jesus, Regional Care Centre for Severe Obesity, University Hospital, Limoges, France
- PO2014 BODY MASS INDEX, GLYCEMIC CONTROL AND MACRO-ALBUMINURIA IN TYPE 2 DIABETIC PATIENTS IN IBADAN, NIGERIA**
G. Fadupin, Department of Human Nutrition, University of Ibadan, Ibadan, Oyo State, Nigeria
- PO2015 SALT INTAKE AND SALT REDUCTION IN SECONDARY SCHOOL-AGE STUDENTS OF PRINCESS CHULABHORN'S COLLEGE CHIANGRAI (REGIONAL SCIENCE SCHOOL)**
W. Puengputtho, Graduate Program In Nutrition, Ramathibodi Hospital, Bangkok, Thailand
- PO2016 BIOACTIVE COMPOUNDS OF ROSMARINUS OFFICINALIS AGAINST COLON CANCER CELLS LINES**
M^a I. Borrás Linares, Department of Analytical Chemistry, University of Granada, Granada, Spain
- PO2017 INTAKE OF LONG-CHAIN OMEGA-3 FATTY ACIDS AND RISK OF CORONARY HEART DISEASE IN THE SPANISH EPIC COHORT STUDY**
G. Buckland, Unit of Nutrition, Environment and Cancer, Cancer Epidemiology Research Programme, Catalan Institute of Oncology (ICO-IDIBELL), Barcelona, Spain
- PO2018 DISTRIBUTION OF FAECALIBACTERIUM PRAUSNITZII PHYLOTYPES IN OBESE, DIABETIC PATIENTS AND CONTROLS COMPARED WITH HRMA AND ARISA.**
B. Hippe, Department of Nutritional Sciences, University of Vienna, Vienna, Austria
- PO2019 EFFECT OF HIV INFECTION ON WEIGHT GAIN DURING TREATMENT OF MALNUTRITION IN MARASMIC CHILDREN BETWEEN 6 AND 59 MONTHS OF AGE**
M. Sanchez, Accion Contra El Hambre, Madrid, Spain
- PO2020 ORAL HYGIENE STATUS AND PREVALENCE OF GUM DISEASE IN OBESE CHILDREN**
T. Ndanu, University of Ghana Dental School, Korle Bu, Ghana
- PO2021 DAIRY PRODUCTS INTAKE AND CARDIOMETABOLIC RISK FACTORS: IS THERE A RELATIONSHIP?**
R. Fisberg, Department of Nutrition, School of Public Health, University of São Paulo, São Paulo, Brazil
- PO2022 RELATIONSHIP BETWEEN INDICATORS OF LIPID, GLUCOSE, AND OXIDATIVE METABOLISM AND BODY WEIGHT IN AUSTRIAN ADULTS**
A. Meyer, Institute of Nutritional Sciences, University of Vienna, Vienna, Austria
- PO2023 IMMUNOMODULATORY EFFECTS OF DHA AND ARA IN THE TREATMENT OF COW'S MILK ALLERGY IN ALLERGIC INFANTS**
E. Matencio, Hero Global Technology Center, Hero Spain, S.A., Alcantarilla, Spain
- PO2024 GREATER BODY MASS INDEX IS ASSOCIATED WITH LOWER PERCENTAGE OF IRON ABSORPTION, BUT NOT WITH IRON STATUS IN CHILEAN WOMEN**
M F. Mujica, AMicronutrients Laboratory, Institute of Nutrition and Food Technology (INTA), Universidad de Chile, Santiago, Chile
- PO2025 NUTRITION RISK FACTORS ASSOCIATED WITH HIV IN RURAL AND URBAN COMMUNITIES IN SOUTH AFRICA**
C M. Walsh, Department of Nutrition and Dietetics, University of The Free State, Bloemfontein, South Africa
- PO2026 EFFECTS OF CONJUGATED LINOLEIC ACID ISOMERS ON PPAR-GAMMA AND ADIPOCYTE-SPECIFIC GENES IN ADIPOCYTES TREATED WITH ANTIRETROVIRAL DRUGS**
C. Loonam, Diabetes & Nutritional Sciences Division, King's College London, London, UK

- PO2027 THE SPANISH FOOD PYRAMID SCORE AND ITS ASSOCIATION WITH OVERWEIGHT/OBESITY IN THE GRANADA-EPIC STUDY (EUROPEAN PROSPECTIVE INVESTIGATION INTO CANCER AND NUTRITION)**
E. Molina-Montes, Andalusian School of Public Health, Granada, Spain
- PO2028 POMEGRANATE AND ITS DERIVATIVES CAN IMPROVE BONE HEALTH THROUGH DECREASED INFLAMMATION AND OXIDATIVE STRESS IN AN ANIMAL MODEL OF POSTMENOPAUSAL OSTEOPOROSIS**
M. Spilmont, Inra, UMR1019, UNH, CRNH Auvergne, Clermont-Ferrand, France
- PO2029 POMEGRANATE SEED OIL PREVENTS OSTEOPENIA ESTABLISHMENT IN A PRECLINICAL MODEL OF OSTEOPOROSIS AND IN BONE CELLS CULTURE**
M. Spilmont, Inra, UMR1019, UNH, CRNH Auvergne, Clermont-Ferrand, France
- PO2030 POMEGRANATE PEEL EXTRACT IMPROVES BONE IMPAIRMENT IN A PRECLINICAL MICE MODEL OF POSTMENOPAUSAL OSTEOPOROSIS STIMULATING OSTEOBLASTIC DIFFERENTIATION IN VITRO**
M. Spilmont, Inra, UMR1019, UNH, CRNH Auvergne, Clermont-Ferrand, France
- PO2031 A NEW ROLE FOR THE FREE FATTY ACID RECEPTOR GPR40 IN PRESERVING BONE HEALTH**
C. Philippe, Inra, UMR 1019, UNH, CRNH Auvergne, Clermont Ferrand, France
- PO2032 NUTRITIONAL STATUS AND HYPERFERRITINEMIA IN PATIENTS WITH GAUCHER DISEASE ON ENZYME REPLACEMENT THERAPY**
D. Doneda, LTD Laboratory, Medical School, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil
- PO2033 NUTRITIONAL STATUS AND LIPID PROFILE OF PATIENTS WITH TYPE I GAUCHER DISEASE FROM THE SOUTH F BRAZIL**
D. Doneda, Postgraduation Program in Medicine: Medical Sciences, Federal University of Rio Grande do Sul (UFRGS), Porto Alegre, Brazil
- PO2034 IRON STATUS DURING PREGNANCY AND THE RISK OF GESTATIONAL DIABETES MELLITUS**
W W. Pang, Department of Obstetrics & Gynaecology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore
- PO2035 PREVALENCE OF OVERWEIGHT, CENTRAL OBESITY AND EXCESS OF BODY FAT AMONG HIV-INFECTED ADULTS IN THE DOMINICAN REPUBLIC: A CROSS SECTIONAL STUDY**
L. Escala, Policy, Planning and External Relation Unit, World Food Programme, United Nations, Regional Bureau for Latin America and the Caribbean, Panama City, Panama
- PO2036 DIETARY INTAKE OF PHYLLOQUINONE IS ASSOCIATED TO LOWER CONCENTRATIONS OF METABOLIC MARKERS IN ELDERLY SUBJECTS AT HIGH CARDIOVASCULAR RISK**
M. Juanola-Falgarona, Human Nutrition Unit, Faculty of Medicine and Health Sciences, IISPV, Universitat Rovira I Virgili, Tarragona, Spain
- PO2037 SERUM FERRITIN IS ASSOCIATED TO OSTEOCALCIN: A POTENTIAL MECHANISM OF IRON-INDUCED INSULIN RESISTANCE**
M. Juanola-Falgarona, Human Nutrition Unit, Faculty of Medicine and Health Sciences, IISPV, Universitat Rovira I Virgili, Tarragona, Spain
- PO2038 URTICACEAE FAMILY HERBAL TEAS AS ANTI-INFLAMMATORY AGENTS**
M. Franciscovic, Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Sciences, University of Novi Sad, Serbia
- PO2039 EFFECTIVENESS OF DIET BASED ON SIGE TESTS USED AS SOLE METHOD OR IN COMBINATION WITH CLA IN IBS PATIENTS**
M. Jarosz, Department of Dietetics and Nutrition in Hospitals with Clinic of Metabolic Diseases and Gastroenterology, National Food and Nutrition Institute, Warsaw, Poland
- PO2040 DIET MODIFICATION BASED ON THE RESULTS OF SIGE CONCENTRATION AGAINST FOOD ANTIGENS AND QUALITY OF LIFE IN IBS PATIENTS**
M. Jarosz, Department of Dietetics and Nutrition in Hospitals with Clinic of Metabolic Diseases and Gastroenterology, National Food and Nutrition Institute, Warsaw, Poland
- PO2041 MARGINAL ZINC DEFICIENCY MAY WORSEN DIABETES IN ZUCKER DIABETIC FATTY RATS**
L. Rech, Department of Human Nutritional Sciences, University of Manitoba; Canadian Centre for Agri-Food Research in Health and Medicine, St. Boniface Research Centre, Winnipeg, Manitoba, Canada
- PO2042 OBESITY IS ASSOCIATED WITH REDUCED IRON STATUS AND INCREASED HEPcidIN CONCENTRATIONS IN WOMEN IN SOUTHERN INDIA**
I. Aeberli, Human Nutrition Laboratory, ETH Zurich, Zurich, Switzerland
- PO2043 EFFECTIVENESS OF THE GLUTEN REDUCTION INTAKE, WITH AND WITHOUT PRIOTOTIC, IN IBS PATIENTS WITH POSITIVE SEROLOGICAL TEST FOR COELIAC DISEASE**
W. Respondek, Department of Dietetics and Nutrition in Hospitals with Clinic of Metabolic Diseases and Gastroenterology, National Food and Nutrition Institute, Warsaw, Poland
- PO2044 PROCYANIDINS EXTRACTED FROM THE LITCHI PERICARP ATTENUATE ATHEROSCLEROSIS AND REGULATE GENES CONTROLLING LIPID METABOLISM IN APOLIPOPROTEIN-E KNOCKOUT MICE**
S. Rong, Department of Food Nutrition Assessment, Institute of Nutrition and Food Safety, Chinese Center For Disease Control and Prevention, China
- PO2045 ASSOCIATION BETWEEN EATING BEHAVIOR AND NIGHTTIME SLEEP AMOUNT IN OBESE CHILDREN**
M. Gutierrez, University of Chile, Santiago, Chile
- PO2046 IS FOOD ALLERGY A CAUSE OF SYMPTOMS WHICH IN IBS PATIENTS OPINION ARE INDUCED BY CONSUMPTION OF CERTAIN FOOD PRODUCTS?**
I. Traczyk, Department of Dietetics and Nutrition in Hospitals with Clinic of Metabolic Diseases and Gastroenterology, National Food and Nutrition Institute, Warsaw, Poland
- PO2047 HINOKITOL SUPPRESSES METASTASIS OF HUMAN HEPATOMA SK-HEP1 CELLS BY INHIBITING MATRIX METALLOPROTEINASE-2/9 AND UROKINASE-PLASMINOGEN ACTIVATOR**
W. Yu-Ling, School of Nutrition, Chung Shan Medical University, Taichung City, Taiwan
- PO2048 ASSESSMENT OF THE RELATIONSHIP BETWEEN IBS OCCURRENCE AND SELECTED FACTORS SUSPECTED TO BE RELATED TO THIS DISEASE**
W. Respondek, Department of Dietetics and Nutrition in Hospitals with Clinic of Metabolic Diseases and Gastroenterology, National Food and Nutrition Institute, Warsaw, Poland
- PO2049 ASSOCIATION BETWEEN GRAIN CONSUMPTION AND SEVERITY OF NON-ALCOHOLIC FATTY LIVER DISEASE (NAFLD)**
M. Georgoulis, Department of Nutrition & Dietetics, Harokopio University, Athens, Greece

- PO2050 EFFECT OF ORAL ADMINISTRATION OF DRY PURSLANE LEAVES ON ACUTE INTESTINAL INFLAMMATION INDUCED IN MICE**
H. Oduro-Obeng, Nutrition and Socio-Economic Division, CSIR-Food Research Institute, Accra, Ghana
- PO2051 THE PREVALENCE OF OBESITY AMONG FEMALE TEACHERS OF CHILD-BEARING AGE IN GHANA**
R. Pobee, CSIR-Food Research Institute, Accra, Ghana
- PO2052 EFFECTS OF SOY BAR OR OAT BRAN, ALONE OR ASSOCIATED, ON CHOLESTEROLEMIA AND OXIDATIVE STRESS IN DYSLIPIDEMIC SUBJECTS**
C. Carreira, Universidade Estadual de Londrina, Londrina, Brazil
- PO2053 NUTRITIONAL ASSESSMENT IN ONCOLOGICAL AND NON-ONCOLOGICAL HOSPITALIZED PATIENTS**
D V. Popova, Clinic of Metabolic Diseases and Dietetics, University Hospital Queen Giovanna-ISUL, Medical University of Sofia, Sofia, Bulgaria
- PO2054 BLOOD LIPID PROFILES OF GHANAIAN SCHOOLCHILDREN**
H. Nti, Department of Nutrition and Food Science, University of Ghana, Legon, Accra, Ghana
- PO2055 TOMATOES AS FUNCTIONAL FOOD: ANTI-INFLAMMATORY EFFECTS OF TOMATO KETCHUP AND IT'S MAIN MICRONUTRIENTS.**
M. Hazewindus, Department of Toxicology, Maastricht University, Maastricht, The Netherlands
- PO2056 EFFECT OF TOMATO JUICE CONSUMPTION ON LIVER FATTY ACID PROFILE OF RATS WITH HIGH FAT DIET-INDUCED HEPATIC STEATOSIS**
G. Martin-Pozuelo, Department of Food Science and Nutrition, Faculty of Veterinary, University of Murcia, Murcia, Spain
- PO2057 ELEVATED LEVELS OF FERRITIN, TBARS AND EXPRESSION OF HEPICIDIN ARE RISK FACTOR FOR TYPE 2 DIABETES DEVELOPMENT**
M. Andrews, Micronutrients Laboratory, Institute of Nutrition and Food Technology, University of Chile, Santiago, Chile
- PO2058 SUBJECTIVE PATIENTS' ASSESSMENT OF QUALITY OF FEEDING PRACTICE IN SELECTED POLISH HOSPITALS**
W. Lysiak-Szydłowska, Faculty of Health Sciences, Powianski College, Kwidzyn, Poland
- PO2059 ASSOCIATION OF FOOD GROUPS CONSUMPTION WITH CENTRAL OBESITY AMONG IRANIAN WOMEN**
A. Rezazadeh, Community Nutrition Department, Faculty of Nutrition and Food Technology, Shahid Beheshti University of Medical Sciences and Health Services, Tehran, Iran
- PO2060 THE ASSOCIATION OF DIETARY LIPID PROFILE WITH HAVING HISTORY OF HYPERLIPIDEMIA IN IRANIAN WOMEN**
A. Rezazadeh, Department of Community Nutrition, Faculty of Nutrition and Food Technology, Shahid Beheshti University of Medical Sciences, Tehran, Iran
- PO2061 ROLE OF ANTIOXIDANTS IN THE TREATMENT OF MULTIPLE SCLEROSIS**
P. Nieto, Department of Pharmacy, Torrecardenas Hospital, Almeria, Spain
- PO2062 ARGININE, GLUTAMIN AND β -HYDROXY- β METHYLBUTIRATE ADDED TO BROCHOPLEURO CUTANEOUS FISTULA TREATMENT**
R. Guida, Intensive Respiratory Care Unit, Hospital del Torax 'Dr. Antonio A. Cetrangolo', Vicente Lopez, Buenos Aires, Argentina
- PO2063 BODY COMPOSITION, CENTRAL ADIPOSITY, BIOCHEMICAL INDICATORS AND BLOOD PRESSURE IN CUBAN ADOLESCENTS**
ME. Diaz-Sanchez, Instituto de Nutricion e Higiene de Los Alimentos, La Habana, Cuba
- PO2064 COMPARATIVE STUDY OF CHILDHOOD OBESITY IN CHILDREN (6-12YEARS) LIVING IN THE RURAL AND URBAN COMMUNITIES OF ENUGU STATE, NIGERIA**
N M. Oly-Alawuba, Department of Nutrition and Dietetics, Imo State University Owerri, Imo State, Nigeria
- PO2065 LOWER ASPARTATE AMINOTRANSFERASE TO ALANINE AMINOTRANSFERASE RATIO IS ASSOCIATED WITH CARDIOMETABOLIC RISK MARKERS IN OVERWEIGHT AND OBESE CHILDREN**
I. Labayen, Department of Nutrition and Food Science, University of the Basque Country, Vitoria, Spain
- PO2066 PREVALENCE OF METABOLIC SYNDROME IN THE SOUTHERN CONE OF LATIN AMERICA**
V. Irazola, CESCAS-Institute for Clinical Effectiveness and Health Policy, Buenos Aires, Argentina
- PO2067 EFFECTS OF RICE BRAN OIL AND PERILLA OIL ON DMH/DSS-INDUCED COLON CARCINOGENESIS IN RATS**
P C. Chen, School of Nutrition and Health Sciences, Taipei Medical University, Taipei, Taiwan
- PO2068 PREVALENCE AND RISK FACTORS FOR CARDIOMETABOLIC SYNDROME IN YOUNG ADULTS OF TABASCO, MEXICO**
A. E. Sierra-Ovando, Centro de Investigacion de la Division Academica de Ciencias de la Salud Universidad Juarez Autonoma de Tabasco, Villahermosa, Tabasco, Mexico
- PO2069 ORAL TREATMENT WITH GABA IMPROVES THE SPLEEN AND PBMC IMMUNE DISTURBANCE IN OBESE MICE**
Y. Shi, The State Key Laboratory of Food Science and Technology, JiangNan University, Wuxi, China
- PO2070 RESVERATROL REVERSED THYROID HORMONES AND LIPID METABOLISM DISORDER INDUCED BY HIGH-FAT DIET: POSSIBLE ROLES FOR GSK-3 β AND NRF2**
Y. Shi, The State Key Laboratory of Food Science and Technology, JiangNan University, Wuxi, China
- PO2071 GAMMA-LINOLENIC ACID IMPROVES PALMITATE-INDUCED INSULIN RESISTANCE IN C2C12 SKELETAL MUSCLE CELLS VIA AMPK/AS160 PATHWAY**
P Y. Chen, School of Nutrition, Chung Shan Medical University, Taichung, Taiwan
- PO2072 DIETARY GERANYLGERANIOL ALLEVIATES ATOPIC DERMATITIS IN NC/NGA MICE**
N. Watanabe, Showa Women's University, Tokyo, Japan
- PO2073 INVOLVEMENT OF THE ESTROGEN RECEPTOR AND PI3K/AKT SIGNALING PATHWAYS IN S(-)-EQUOL-INDUCED ACTIVATION OF NRF2/ARE IN ENDOTHELIAL CELLS**
T. Zhang, Research Center for Nutrition and Food Safety, The Third Military Medical University, Chongqing City, China
- PO2074 INITIATION OF AUTOPHAGY THROUGH UNFOLDED PROTEIN RESPONSE DURING CANCER-PREVENTIVE GERANYLGERANOIC ACID-INDUCED CELL DEATH OF HUMAN HEPATOMA CELLS**
Y. Shidoji, Molecular and Cellular Biology, Graduate School of Human Health Science, University of Nagasaki, Nagayo, Nagasaki, Japan
- PO2074 INITIATION OF AUTOPHAGY THROUGH UNFOLDED PROTEIN RESPONSE DURING CANCER-PREVENTIVE GERANYLGERANOIC ACID-INDUCED CELL DEATH OF HUMAN HEPATOMA CELLS**
Y. Shidoji, Molecular and Cellular Biology, Graduate School of Human Health Science, University of Nagasaki, Nagayo, Nagasaki, Japan
- PO2075 LYCOPENE CONTENT OF THE EGYPTIAN FOODSTUFFS, DAILY INTAKE ESTIMATION AND COMPLICATIONS DEVELOPMENT OF TYPE II DIABETES MELLITUS, RATS MODEL**
A. Ezz El-Arab, Department of Food Science and Nutrition, National Research Center, Egypt
- PO2076 EFFECT OF PAPAYA YOGHURT (CARICA PAPAYA) TO SERUM LIPID PROFILE LEVEL OF HYPERLIPIDEMIC SPRAGUE DAWLEY RAT MODEL**
N. Oktoviani, Undergraduate Medical Student, Faculty of Medicine, Semester VI, Gadjah Mada University, Indonesia

- PO2077 VEGETABLES AND PLANT OIL IMPROVE RISK FACTOR FOR SECONDARY COMPLICATIONS IN SUBJECTS WITH TYPE 2 DIABETES**
E. Müllner, Department of Nutritional Sciences, University of Vienna, Austria
- PO2078 DIETARY LIPID DYNAMICS IN THE THORACIC LYMPH REGULATED BY FOOD COMPONENTS AND DRUG IN THE INTESTINAL LUMEN**
B. Shirouchi, Department of Bioscience and Biotechnology, Faculty of Agriculture, Graduate School of Kyushu University, Fukuoka, Japan
- PO2079 MASTICATION EFFECTS ON GLYCAEMIA: PRACTICAL IMPLICATIONS FOR DIET ADVOCACY**
V. Ranawana, Clinical Nutrition Research Centre, Singapore Institute for Clinical Sciences, Singapore
- PO2081 EFFECT OF A DIET-INDUCED WEIGHT LOSS PROGRAM ON CARDIOMETABOLIC RISK IN OVERWEIGHT AND OBESE ADULTS**
L. Grandisoli, Department of Nutrition and Dietetics, University Hospital, Sao Paulo University, Brazil
- PO2082 EFFECTS OF COFFEE INTAKE ON INSULIN SIGNALLING PATHWAY IN SKELETAL MUSCLE OF HIGH FAT DIET INDUCED OBESE MICE**
W. Aw, Graduate School of Biomedical Science, Tokyo Medical and Dental University, Japan
- PO2083 SELF-REPORTED RATE OF EATING IS ASSOCIATED WITH ACCUMULATED VISCERAL FAT AND CIRCULATING ALT ACTIVITY IN MIDDLE-AGED APPARENTLY HEALTHY JAPANESE MEN**
M. Yamada, Graduate School of Integrated Pharmaceutical and Nutritional Sciences, University of Shizuoka, Shizuoka, Japan
- PO2084 RUTIN HAS BENEFICIAL EFFECTS IN THE CD4+CD62L+ T CELL TRANSFER INDUCED MODEL OF COLITIS IN THE MOUSE**
C. Mascaraque, University of Granada, Granada, Spain
- PO2085 EFFECT OF THE INTAKE OF A HIGH-FAT SUCROSE DIET ON GUT MICROBIOTA COMPOSITION IN RATS**
U. Etzeberria, Department of Nutrition, Food Science and Physiology, University of Navarra, Spain
- PO2086 EFFECT OF AHCC ON CD4+CD62L+ T CELL-TRANSFER INDUCED COLITIS IN RAG MICE**
C. Mascaraque, University of Granada, Granada, Spain
- PO2087 THE ASSOCIATION BETWEEN BODY MASS INDEX AND BLOOD PRESSURE AMONG SCHOOL CHILDREN IN MALAYSIA**
S. Shohaimi, Universiti Putra Malaysia
- PO2088 WEIGHT LOSS AND DIET CHANGE AS RESULT OF A 12-WEEK DIET AND PHYSICAL ACTIVITY INTERVENTION IN BREAST CANCER SURVIVORS**
L. Hurtos, Clinical Nutrition Unit, Catalan Institute of Oncology (ICO-IDIBELL), L'Hospitalet de Llobregat (Barcelona), Spain
- PO2089 EFFECTS OF ALPERUJO EXTRACT ON β -CELL FUNCTION UNDER STRESS WITH GLUCOSE AND HYDROGEN PEROXIDE**
C. Gonzalez, Faculty of Sciences of Health, University of Talca, Talca, Chile
- PO2090 PREDICTIVE FACTORS OF ARTERIAL BLOOD PRESSURE IN YOUNG UNIVERSITY STUDENTS, CORDOBA, ARGENTINA**
M. Defago, Escuela de Nutricion, Facultad de Ciencias Medicas, Universidad Nacional de Cordoba, Argentina
- PO2091 MAPPING OF CIVIL SOCIETY ORGANIZATIONS IN LATIN AMERICA AND THE CARIBBEAN**
M V. Tiscornia, Fundacion InterAmericana del Corazon Argentina, Buenos Aires, Argentina
- PO2092 EFFICACY OF A NUTRITION EDUCATION PROGRAM FOR RURAL THAI PREDIABETICS**
S. Songchitsomboon, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Thailand
- PO2093 PREDICTORS OF CARDIOVASCULAR DISEASE IN MULTI-ETHNIC ASIAN PATIENTS WITH TYPE 2 DIABETES MELLITUS**
M C. Tan, Department of Nutrition and Dietetics, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Selangor Darul Ehsan, Malaysia
- PO2094 DIETARY COMPLIANCE, DIETARY SUPPLEMENTATION AND TRADITIONAL REMEDY USAGE AMONG TYPE 2 DIABETIC PATIENTS WITH AND WITHOUT CARDIOVASCULAR DISEASE: AN UPDATE**
M C. Tan, Department of Nutrition and Dietetics, Faculty of Medicine and Health Sciences, University Putra Malaysia, Selangor Darul Ehsan, Malaysia
- PO2095 ASSOCIATIONS BETWEEN DISORDERED EATING AND BODY WEIGHT STATUS AMONG ADOLESCENTS IN KUALA LUMPUR, MALAYSIA**
K. Sanker, Department of Nutrition & Dietetics, Faculty of Medicine & Health Sciences, University Putra Malaysia
- PO2096 NUTRITION KNOWLEDGE AND DIETARY LIFESTYLE AS CANCER RISK FACTORS AMONG UNIVERSITY OF IBADAN UNDERGRADUATES, NIGERIA**
K. Ajayi, Department of Human Nutrition, University of Ibadan, Ibadan, Oyo State, Nigeria
- PO2097 GENDER MODERATES THE RELATIONSHIP BETWEEN PSYCHOLOGICAL DISTRESS AND DISORDERED EATING AMONG MALAYSIAN UNIVERSITY STUDENTS**
W Y. Gan, Department of Nutrition and Dietetics, Universiti Putra Malaysia, Serdang, Selangor, Malaysia
- PO2098 NATURAL KILLER T CELLS IN OBESITY -RELATED LIVER DISEASE**
R R. Mabrouk, Faculty of Medicine, Ain Shams University, Cairo, Egypt
- PO2099 POTENTIAL IMPACTS ON NUTRITIONAL MANAGEMENT IN CANCER: COMPLEMENTARY AND ALTERNATIVE THERAPY USAGE IN A SCOTTISH PAEDIATRIC COHORT**
R. Revuelta Iniesta, Dietetics, Nutrition and Biological Health Sciences, Queen Margaret University, Edinburgh, UK
- PO2100 THE LONG-TERM GREEN OR BLACK TEA DECOCTION CONSUMPTION IMPROVED OMEGA N-3 FATTY ACIDS COMPOSITION OF PLASMA AND LIVER IN RATS**
C. Snoussi, Research Unit, High School of Health Sciences, Tunis EL Manar University, Tunisia
- PO2101 ANTI-INFLAMMATORY EFFECTS OF FARNESOL, A SESQUITERPENE, ON OVALBUMIN-SENSITIZED AND -CHALLENGED ASTHMATIC MICE**
J Y. Lin, Department of Food Science and Biotechnology, National Chung Hsing University, Taichung, Taiwan, ROC
- PO2102 GLUCOSE DISPOSITION INDEX BASED ON THE ORAL GLUCOSE TOLERANCE TEST IN CHILEAN ADULTS**
M. Morales, Department of Nutrition, Diabetes and Metabolism, School of Medicine, Pontificia Universidad Catolica de Chile, Santiago, Chile
- PO2103 TYPE OF VEGETARIAN DIET AND PREVALENCE OF DIABETES IN ADULT MEN AND WOMEN IN INDIA**
S. Agrawal, South Asia Network For Chronic Disease, New Delhi, India
- PO2104 EFFECT OF CONSUMPTION OF DARK CHOCOLATE ON THE EXPRESSION OF PROINFLAMMATORY CYTOKINES IN OLDER ADULTS WITH DIABETES MELLITUS II**
M. Pita-Lopez, Molecular Biology and Immunology Unit, South University Center, University of Guadalajara, Guzman City, Jalisco, Mexico
- PO2105 DIETARY PATTERNS AND BMI AND SERUM LIPIDS IN A POLISH WOMEN**
K. Przybylowicz, Department of Human Nutrition, University of Warmia and Mazury, Olsztyn, Poland

- PO2106 PREVALENCE OF ANEMIA IN CHILDREN AND ADOLESCENTS AFTER NUTRITIONAL INTERVENTION**
L. Ribeiro, Unirio, Rio de Janeiro, Brazil
- PO2107 INTERNET-BASED WEIGHT LOSS PROGRAMS: A REVIEW**
C. Torreglosa, Department of Food Sciences and Experimental Nutrition/ Faculty of Pharmacy/ University of São Paulo, São Paulo, Brazil
- PO2108 OBESITY HAS LEVELED OFF IN FINLAND: FORTY-YEAR TRENDS OF OBESITY FROM THE NATIONAL FINRISK STUDY**
S. Männistö, Department of Chronic Disease Prevention, National Institute For Health and Welfare, Helsinki, Finland
- PO2109 NUTRITIONAL ASSESSMENT, SUPPORT AND DIET INDICATED IN ONCOLOGY INPATIENTS.**
L. Arribas, Clinical Nutrition Unit, Institut Català D' Oncologia, L'Hospitalet de Llobregat, Barcelona, Spain
- PO2110 INTERMITTENT FASTING MODULATION OF THE DIABETIC NEPHROPATHY SYNDROME IN STREPTOZOTOCIN-INJECTED RATS**
L. Belkacemi, Laboratory of Food Technology and Nutrition, Mostaganem University, Mostaganem, Algeria
- PO2111 IDENTIFICATION OF NUTRITION TRANSITION IN PATIENTS TREATED BY DIALYSIS IN A BRAZILIAN HOSPITAL**
F P. Maniglia, Faculty of Medicine of Ribeirão Preto (University of São Paulo), Ribeirão Preto, São Paulo, Brazil
- PO2112 NUTRITIONAL KNOWLEDGE AND ASSOCIATION WITH DIETARY PRACTICES AMONG CANCER PATIENTS: A CASE STUDY OF KENYATTA NATIONAL HOSPITAL CANCER TREATMENT CENTER**
C. Muthike, University of Nairobi, Nairobi, Nigeria
- PO2113 ASSOCIATION BETWEEN IRON NUTRITION AND INFLAMMATION WITH TYPE 2 DIABETES DEVELOPMENT**
M. Arredondo-Olguin, INTA, University of Chile, Santiago, Chile
- PO2114 METABOLIC SYNDROME AND ITS COMPONENTS, AND ADHERENCE TO THE MEDITERRANEAN DIET AMONG THE BALEARIC ISLANDS' ADULT POPULATION**
M. Gonzalez, Research Group on Community Nutrition and Oxidative Stress, University of Balearic Islands, E-07122 Palma de Mallorca, Spain, and CIBER: CB12/03/30038 Fisiopatología de la Obesidad y la Nutrición, CIBERobn, Instituto de Salud Carlos III (ISCIII), Spain
- PO2115 TEN-YEAR TRENDS IN THE PREVALENCE OF OVERWEIGHT AND OBESITY, AND EXCESS ABDOMINAL FAT AMONG THE BALEARIC ISLANDS' ADULT POPULATION (1999-2010)**
J L I. Coll, Research Group on Community Nutrition and Oxidative Stress, University of Balearic Islands, E-07122 Palma de Mallorca, Spain, and CIBER: CB12/03/30038 Fisiopatología de la Obesidad y la Nutrición, CIBERobn, Instituto de Salud Carlos III (ISCIII), Spain
- PO2116 ACID ACETYL SALICYLIC AND DECREASE OF HIGH-SENSITIVITY C-REACTIVE PROTEIN IN INDIVIDUALS TREATED BY DIALYSIS IN A BRAZILIAN HOSPITAL**
F. P. Maniglia, Faculty of Medicine of Ribeirão Preto (University of São Paulo), Ribeirão Preto, São Paulo, Brazil
- PO2117 NUTRITIONAL ASSESMENT IN PATIENTS WITH CHRONIC MALNUTRITION AND ANXIETY**
D V. Popova, Clinic of Metabolic and Endocrine Diseases and Dietetics, University Hospital Queen Giovanna-ISUL, Medical University of Sofia, Bulgaria
- PO2118 SENSITIVITY ANALYSES ON HEALTH IMPACT ASSESSMENT OF SALT REDUCTION: EFFECTS OF MODIFYING SALT INTAKE, BLOOD PRESSURE OR RELATIVE RISKS**
M. Hendriksen, National Institute For Public Health and The Environment (RIVM), Bilthoven, the Netherlands
- PO2119 DIETARY INDICES, CARDIOVASCULAR RISK FACTORS AND MORTALITY IN MIDDLE-AGED ADULTS: FINDINGS FROM THE AEROBICS CENTER LONGITUDINAL STUDY**
M. Cuenca-Garcia, Department of Physiology, University of Granada, Spain
- PO2120 INFLAMMATORY AND OXIDATIVE EVALUATION OF INDIVIDUALS TREATED BY DIALYSIS IN A BRAZILIAN HOSPITAL**
F P. Maniglia, Faculty of Medicine of Ribeirão Preto (University of São Paulo), Ribeirão Preto, São Paulo, Brazil
- PO2121 ASSOCIATION BETWEEN FOOD PATTERNS AND BIOMARKERS OF ENDOTHELIAL FUNCTION: A SYSTEMATIC REVIEW**
M. Defago, Southern Cone American Center For Cardiovascular Health (CESCAS/SACECH), Institute For Clinical Effectiveness and Health Policy (IECS), Buenos Aires, Argentina
- PO2122 DOES VITAMIN D STATUS PREDICT ERECTILE DYSFUNCTION AND CARDIOVASCULAR RISK IN AGEING MEN? A NEW ZEALAND PILOT STUDY**
M. Quilter, Institute of Food Nutrition and Human Health, Massey University, Palmerston North, Manawatu, New Zealand
- PO2123 ASSOCIATION BETWEEN RS1137100 SNP IN LEPR GENE AND WAIST-TO-HEIGHT RATIO IN BRAZILIAN OVERWEIGHT CHILDREN AND ADOLESCENTS**
C T H. Fujiwara, League of Childhood Obesity, Discipline of Endocrinology & Metabolism Hospital Das Clinicas, Faculty of Medicine, Sao Paulo, Sao Paulo, Brazil
- PO2124 RS1137101 SNP IN LEPR GENE IS NOT ASSOCIATED WITH BINGE EATING AND CARDIOMETABOLIC RISK IN BRAZILIAN OVERWEIGHT CHILDREN AND ADOLESCENTS**
C T H. Fujiwara, League of Childhood Obesity, Discipline of Endocrinology & Metabolism Hospital das Clinicas, Faculty of Medicine, University of Sao Paulo, Sao Paulo, Sao Paulo, Brazil
- PO2125 THE DIETS' NUTRITIONAL VALUE OF WOMEN WITH NORMAL WEIGHT BUT OBESE**
J W. Szczepanska, Department of Human Nutrition, University of Warmia and Mazury, Olsztyn, Poland
- PO2126 ASSOCIATIONS BETWEEN ADIPOSITY AND MICRONUTRIENT DEFICIENCIES IN MEXICAN WOMEN**
K. Long, School of Population Health, University of Queensland, Australia
- PO2127 LOW VITAMIN B12 AND FOLATE SERUM CONCENTRATIONS, AND B-VITAMIN INTAKE ARE ASSOCIATED WITH GREATER ADIPOSITY IN MEXICAN AMERICAN CHILDREN**
K. Long, School of Population Health, University of Queensland, Australia
- PO2128 EFFECT OF OBESITY ON SELF-ESTEEM IN SECONDARY SCHOOL-AGE STUDENTS OF NORTHERN REGION OF THAILAND**
S. Satoh, Graduate Program In Nutrition, Ramathibodi Hospital
- PO2129 MICRONUTRIENT STATUS AND IMMUNITY: A CASE STUDY AMONG INDONESIAN ACTIVE PULMONARY TUBERCULOSIS PATIENTS**
D. Dillon, SEAMEO RECFON, Jakarta, Indonesia
- PO2130 VITAMIN D STATUS OF HEMODIALYSIS PATIENTS IN KOREA**
S S. Lee, Department of Food and Nutrition, College of Human Ecology, Hanyang University
- PO2131 METABOLIC AND BONE DISORDERS IN VERTICALLY HIV-INFECTED CHILDREN**
C. Torrejon, Departamento de Pediatría Norte, Hospital Roberto del Río, Universidad de Chile, Santiago, Chile
- PO2132 EFFECT OF SWEETENERS ON THE PEYER'S PATCHES OF THE SMALL INTESTINE OF BALB/C MICE**
B E. Martinez-Carrillo, Center For Research and Graduate Studies In Health Sciences, Faculty of Medicine, UAEM, Mexico
- PO2133 NUTRITIONAL AND DIETARY FACTORS AND RISK OF HIP FRACTURES IN ELDERLY CHINESE: A MATCHED CASE-CONTROL STUDY**
Y. Chen, Department of Medical Statistics and Epidemiology, Sun Yat-Sen University, Guangzhou, China

- PO2134 ASSOCIATION OF DIETARY FACTORS AND DIETARY QUALITY WITH RISK OF NASOPHARYNGEAL CARCINOMA IN CHINESE ADULTS: A CASE-CONTROL STUDY**
Y. Chen, Department of Medical Statistics and Epidemiology, Sun Yat-Sen University, Guangzhou, China
- PO2135 BINGE EATING DISORDER IN OBESE WOMEN: A QUALITATIVE STUDY IN BRAZIL**
M J. Teixeira, Faculty of Medicine, Federal University of Ceara, Brazil
- PO2136 THE EFFECT OF FRUIT INTAKE ON BLOOD LIPID PROFILE IN HEMODIALYSIS PATIENTS**
S H. Yang, Department of Internal Medicine, Keelung Hospital, Department of Health Executive Yuan, Taiwan
- PO2137 GENDER DIFFERENCE IN DIETARY PATTERN BETWEEN NON-DIALYSIS DAY IN WEEKDAY AND WEEKEND OF HEMODIALYSIS PATIENTS IN NORTH TAIWAN.**
P Y. Wu, School of Nutrition and Health Sciences, Taipei Medical University, Taipei, Taiwan, R.O.C.
- PO2138 INCREASE OF SERUM CHOLESTEROL LEVEL INDUCED BY DIETARY CHOLSTEROL INVOLVES SECRETION OF TRIACYLGLYCEROL FROM LIVER IN EXHC RATS**
Y. Tanaka, Department of Bioresource and Bioenvironmental Sciences, Faculty of Agriculture, Graduate School of Kyushu University, Fukuoka, Japan
- PO2139 DNA MICROARRAY STUDY REVEALING THE GENE ALTERATIONS UNDER ANTI-DIABETIC EFFECT OF DECAFFEINATED COFFEE ON DIABETIC KKAY MICE**
S. Takahashi, Department of Applied Biological Chemistry, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Japan
- PO2140 EFFECT OF CHIA (SALVIA HISPANICA L) CONSUMPTION ON TNF- α LEVELS AND NUTRITIONAL STATUS IN BREAST CANCER PATIENTS**
L. Solano, Behavioral Feeding and Nutrition Research Center, Universidad de Guadalajara-CUSUR, Ciudad Guzman, Jalisco, Mexico
- PO2141 PROTEOMIC ANALYSIS OF GLUCOSE AND LIPID METABOLISM IN LIVER OF DIABETIC MICE FED WITH TOONA SINENSIS LEAF ETHANOL EXTRACT**
B C. Yu, Department of Life Sciences, National Cheng Kung University, Tainan, Taiwan
- PO2142 INDEPENDENT CONTRIBUTION OF NECK CIRCUMFERENCE TO THE RISKS OF CARDIO-METABOLIC SYNDROME IN PEOPLE OF SOUTHERN CHINA**
H. Zhu, Department of Nutrition, Sun Yat-Sen University, Guangzhou, Guangdong, China
- PO2143 COMPARATIVE ASSESSMENT OF NUTRITIONAL STATUS OF PATIENTS WITH END STAGE RENAL DISEASE ON HAEMODIALYSIS AND CONSERVATIVE THERAPY IN IBADAN, NIGERIA**
O. Fabusoro, Department of Human Nutrition, University of Ibadan, Ibadan, Nigeria
- PO2144 ASSOCIATIONS BETWEEN DIETARY FAT AND SERUM LIPID PROFILE DEPEND ON BODY FAT AND GENDER IN EUROPEAN ADOLESCENTS: THE HELENA STUDY**
S. Bel-Serrat, Growth, Exercise, Nutrition and Development" (GENUD) Research Group, Faculty of Health Sciences, University of Zaragoza, Zaragoza, Spain
- PO2145 PINE BARK EXTRACT ATTENUATES COX-2 EXPRESSION IN INFLAMED CACO-2 CELLS**
C. Frontela-Saseta, University of Murcia, Spain
- PO2146 LONG TERM INTAKE OF CARBOXYMETHYL-LYSINE GIVE RISE TO LOW-GRADE GUT INFLAMMATION**
S. Pastoriza, Institute of Animal Nutrition, EEZ-CSIC, Granada, Spain
- PO2147 PROPIONIC ACID AND CARBOXYMETHYL-LYSINE REGULATES THE INFLAMMASOME AXIS IN GUT CELLS**
S. Pastoriza, Institute of Animal Nutrition, EEZ-CSIC, Granada, Spain
- PO2148 A RAT MODEL OF GENETIC OBESITY SHOWS CHANGES IN SECRETION OF CYTOKINES (BASAL AND CON A STIMULATED) BY SPLEEN LEUCOCYTES**
N M. De Castro, Department of Physiology, Faculty of Biology, Complutense University of Madrid, Spain
- PO2149 WEIGHT LOSS METHODS IN RELATION TO WEIGHT MAINTENANCE STATUS: FOCUS GROUPS RESULTS**
E. Karfopoulou, Department of Nutrition and Dietetics, Harokopio University, Athens, Greece
- PO2150 CONSUMPTION OF PHENOL-RICH VIRGIN OLIVE OIL IMPROVES HIGH FAT DIET-INDUCED TYPE 2 DIABETES MELLITUS**
E. Jurado, Andalusian Center of Molecular Biology and Regenerative Medicine (CABIMER), Seville, Spain
- PO2151 S- ADENOSYLMETHIONINE AS A MODULATOR OF HEPATOCYTE SURVIVAL IN NON- ALCOHOLIC FATTY LIVER DISEASE IN RATS**
K. Bratoeva, Department of Pathophysiology, Medical University, Varna, Bulgaria
- PO2152 PREDICTIVE POWER OF DIFFERENT ANTHROPOMORPHIC MEASUREMENTS OF CENTRAL FAT DISTRIBUTION IN HAEMODIALYZED PATIENTS**
M. Ruperto, Universidad Complutense de Madrid, Madrid, Spain
- PO2153 LEUCINE AND GLUTAMINE AS KEY AMINO ACIDS IN THE PREVENTION OF CANCER, RHEUMATISM, HIGH BLOOD PRESSURE AND DIABETES**
P. Ximenes, Area De Dietetica Y Nutricion Aplicada, Colegio Oficial Tecnicos Superiores Sanitarios Comunidad De Valencia, España, Spain
- PO2154 FREE INTAKE OF SOME VEGETABLES AND FRUITS IN TREATMENT OF PHENYLKETONURIA (PKU)**
V. Cornejo, Laboratorio de Genetica y Enfermedades Metabolicas, INTA, Universidad De Chile, Santiago, Chile
- PO2155 EFFECT OF SUPPLEMENTATION WITH OMEGA-3 ON DYSLIPIDEMIA IN CHILDREN AND ADOLESCENTS INFECTED WITH HIV ON ANTIRETROVIRAL TREATMENT**
M. Araujo, Hospital Nacional De Pediatria J P Garrahan, Buenos Aires, Argentina
- PO2156 NUTRITIONAL PROFILE OF PATIENTS TREATED IN AN ENDOCRINOLOGY OUTPATIENT CLINIC IN SOUTHERN BRAZIL**
E I. Rabito, Department of Nutrition, Universidade Federal de Ciências da Saude de Porto Alegre, Porto Alegre, Brazil
- PO2157 DIETARY INTAKE IN ADULTS WITH CHRONIC HEPATITIS C**
E I. Rabito, Department of Nutrition, Universidade Federal de Ciências Da Saude De Porto Ale
- PO2158 CARDIOVASCULAR OUTCOMES OF REFINED CARBOHYDRATES ARE INFLUENCED BY THE TYPE OF DIETARY FAT**
M. Abeywardena, CSIRO - Animal, Food & Health Sciences, Adelaide, S A, Australia
- PO2159 RESVERATROL PROTECTS VASCULAR ENDOTHELIAL CELLS FROM HIGH GLUCOSE-INDUCED APOPTOSIS THROUGH INHIBITION OF NADPH OXIDASE ACTIVATION DRIVEN OXIDATIVE STRESS**
F. Chen, Key Laboratory of Nutrition and Metabolism, Institute for Nutritional Sciences, SIBS, Chinese Academy of Sciences, Shanghai, China

- PO2160 DIETETIC PRACTICES IN THE MANAGEMENT OF CHILDHOOD OBESITY IN MALAYSIA**
N B. Md. Yusop, Department of Nutrition and Dietetics, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Serdang, Selangor, Malaysia
- PO2161 DIETARY HABIT AND PREVALENCE OF GUM DISEASE IN OBESE CHILDREN**
T A. Ndanu, University of Ghana Dental School, Korle Bu, Ghana
- PO2162 SYSTEMATIZATION OF NUTRITIONAL ASSISTANCE TO PATIENTS OF THE ONCOLOGY AND HEMATOLOGY UNIT, UNIVERSITY HOSPITAL VIRGEN DE LAS NIEVES IN GRANADA**
K. Borges Mustafa, Hospital Universitario Virgen de Las Nieves, Granada, Spain
- PO2163 PERCEPTION OF PAIN IN CHILDREN, ITS IMPACT ON LIFESTYLE AND DIETARY HABITS**
M I. Aguirre Gallego, Hospital Universitario Virgen de Las Nieves, Granada, Spain
- PO2164 PREVALENC OF METABOLIC AND BEHAVIOR CARDIOVASCULAR RISK FACTORS IN INDONESIAN POPULATION 2007**
R. Sukirna, Department of Epidemiology, School of Public Health University of Indonesia
- PO2165 DIETARY INTAKE OF VITAMIN A, E, C, MAGNESIUM, ZINC AND SELENIUM IN ASTHMATIC PATIENTS**
L. Maghsumi Noroozabad, MSc Students' Research Committee, Faculty of Health & Nutrition, Tabriz University of Medical Sciences, Tabriz, Iran
- PO2166 INFLAMMATORY RESPONSE AFTER PARENTERAL NUTRITION LIPID EMULSIONS IN CHILDREN WITH BONE MARROW TRANSPLANTATION**
M A. Baena-Gomez, Reina Sofia University Hospital, IMIBIC, Cordoba, Spain
- PO2167 IMPACT OF NUTRITION EDUCATION ON PATIENTS UNDERGOING CHRONIC HEMODIALYSIS AT GENERAL HOSPITAL OF DOUALA**
P N. Zebaze, National Advanced School of Agro Industrial Sciences, Ngaoundere, Cameroon
- PO2168 ASSOCIATION BETWEEN ABO BLOOD GROUPS AND BODY MASS INDEX AMONG ADULT PARTICIPANTS IN EAST AZERBAIJAN, IRAN**
N. Mesri, Department of Biochemistry and diet therapy, Student Research Center, Faculty of Nutrition, Tabriz University of Medical Sciences, Tabriz, Iran
- PO2169 ZINC, COPPER AND MAGNESIUM CONCENTRATIONS IN IMPAIRED GLUCOSE TOLERANCE: THEIR RELATION**
N. Roshan Ravan, Department of Biochemistry and diet therapy, Student Research Center, Faculty of Nutrition, Tabriz University of Medical Sciences, Tabriz, Iran
- PO2171 REDUCED ACID LOAD OF THE MACROBIOTIC MA-PI DIET IMPROVES GLYCEMIC CONTROL AND CARDIOVASCULAR RISK FACTOR IN TYPE 2 DIABETES**
C. Porrata-Maury, Macrobiotic Diet Service, Finlay Institute, La Havana, Cuba
- PO2172 EFFECT OF AMARANTH GRAIN CONSUMPTION ON HEALTH AND NUTRITION STATUS OF ADULTS LIVING WITH HIV IN MWEIGA, NYERI -KENYA**
Z. Ndungu, Department of Foods, Nutrition and Dietetics, Kenyatta University, Nairobi, Kenya
- PO2173 URBANIZATION AND RISK FACTORS FOR NON-COMMUNICABLE DISEASES IN THE WESTERN CAPE PROVINCE, SOUTH AFRICA**
i. Lombard, NICUS, Division of Human Nutrition, Stellenbosch University, Stellenbosch, South Africa
- PO2174 FACTORS INFLUENCING NUTRITION EDUCATION OF FARM WORKERS IN THE WESTERN CAPE PROVINCE, SOUTH AFRICA**
M. Lombard, NICUS, Division of Human Nutrition, Stellenbosch University, Stellenbosch, South Africa
- PO2175 NUTRITIONAL MANAGEMENT OF CHILDREN WITH CANCER: CASE OF KENYATTA NATIONAL HOSPITAL - KENYA**
R. Shikuri, Masinde Muliro University of Science and Technology, Kakamega, Kenya
- PO2176 RESISTANT STARCH AND DIETARY FIBRE CONTENT OF COMMON INDIAN COOKED FOODS AND ITS EFFECT ON GLYCEMIC INDEX**
K. Krishnaswamy, Madras Diabetes Research Foundation, Gopalapuram, Chennai, Tamil Nadu, India
- PO2177 THE RELATION BETWEEN SOCIOECONOMIC SITUATION, ECONOMIC ENVIRONMENT AND OBESITY IN TURKISH ADULTS**
E. Sezer, Baskent University, Faculty of Health Science, Department of Nutrition and Dietetics, Ankara, Turkey
- PO2178 PREVALENCE AND DETERMINANTS OF OBESITY AMONG SCHOOL CHILDREN 13-17YEARS OF BHILAI CITY**
A. Joglekar, Department of Nutrition/ Govt. G.N.A. College, Bhatapara, Pt.R.S. University, Raipur, Chhattisgarh, India
- PO2179 L-ARGININE SUPPLEMENTATION PREVENTS ALLODYNIA AND HYPERALGESIA IN A RAT MODEL OF DIABETIC NEUROPATHIC PAIN BY NORMALIZING PLASMA NITRIC OXIDE CONCENTRATIONS**
L. Rondon, Laboratorio de Fisiologia Molecular, Centro de Bioquimica y Biofisica, IVIC, Altos de Pipe, Estado Miranda, Venezuela
- PO2180 EFFICACY OF GLUTAMINE IN THE PREVENTION OF OXIDATIVE STRESS IN CANCER PATIENTS UNDERGOING RADIOTHERAPY IN THE ABDOMINAL OR PELVIC REGION**
B. San-Miguel, Institute of Biomedicine (IBIOMED) and CIBERehd, University of Leon, Leon, Spain
- PO2181 STUDY ON RELATIONSHIP BETWEEN DIETARY SODIUM INTAKE AND HYPERTENSION IN HEILONGJIANG RESIDENTS**
G. Jiang, Department of Nutrition and Food Safety, Heilongjiang Center For Disease Control and Prevention, Beijing, China
- PO2182 DYNAMICS OF NUTRITION TRANSITION AND RISK OF DIABETES IN HUBEI, 1991-2009**
S. Liu, Institute of Health Surveillance, Analysis and Protection, Hubei Center For Disease Control and Prevention, Hubei, China
- PO2183 SMOKING MAY INCREASE THE RISK OF DIABETES AMONG ADULTS**
Department of Nutrition and Food Safety, Huairou District Centre For Disease Prevention and Control, Beijing, China
- PO2184 RELATIONSHIP BETWEEN BODY MASS INDEX, WAIST CIRCUMFERENCE AND HYPERTENSION**
Z. Tang, Guangxi Zhuang Autonomous Region Center For Disease Control and Prevention, Beijing, China
- PO2185 STUDIES ON PHYSICOCHEMICAL AND BIOLOGICAL ACTIVITIES OF OPHICEPHALUS STRIATUS BLOCH COLLECTED FROM THE FRESH WATER IN THE BANGLADESH**
E. Mollik, Department of Biological Sciences, Peoples Integrated Alliance, Dhaka, Bangladesh
- PO2186 OVERWEIGHT AND OBESITY: A COMPARATIVE STUDY BETWEEN PREDOMINANTLY STATIONARY MARKET WOMEN AND THEIR MOBILE COUNTERPARTS IN TAMALE METROPOLIS OF GHANA**
P. Aryee, Community Nutrition Department, University For Development Studies, Tamale, Ghana
- PO2187 CARDIOMETABOLIC RISK MARKERS IN ADULT ARGENTINE WOMEN WITH INSULIN RESISTANCE**
M E. Torresani, School of Nutrition, Faculty of Medicine, University of Buenos Aires, UBACYT Proje 2010-2012, Buenos Aires, Argentina
- PO2188 THE EFFECT OF MILK AND MILK PRODUCTS ON THE CHILD' S OSTEOPOROSIS**
G. Enkhtaivan, Nutrition and Food Services Department, School of Food Engineering and Biotechnology, Mongolian University of Science and Technology, Ulaanbaatar, Mongolia

- PO2189 DOCOSAHEXAENOIC ACID REBALANCES STAT3/PPAR_γ EQUILIBRIUM IN ADIPOCYTES OF OBESE PATIENTS AFFECTED BY COLON CANCER EXERTING ANTI-INFLAMMATORY ACTIVITY**
M. D'Archivio, Department Veterinary Public Health and Food Safety, Nutrition Unit, Italian National Institute of Health, Rome, Italy
- PO2190 ASSOCIATION BETWEEN OBESITY AND COMMON MENTAL DISORDERS AMONG NUTRITIONISTS, RIO DE JANEIRO, BRASIL**
T. Muzy, Josue de Castro Nutrition Institute, Rio de Janeiro Federal University, Rio de Janeiro, Brazil
- PO2191 THE DIETARY POLYPHENOL PROTOCATECHUIC ACID EXERTS INSULIN-LIKE ACTIVITIES BY IRS-1 ACTIVATION IN HUMAN PRIMARY ADIPOCYTES**
B. Scazzocchio, Department Veterinary Public Health and Food Safety, Nutrition Unit, Italian National Institute of Health, Rome, Italy
- PO2192 CONSUMPTION FREQUENCY OF SELECTED GROUPS OF FOOD PRODUCTS AND THE PREVALENCE OF COLORECTAL POLYPS**
M. Jarosz, Department of Dietetic and Nutrition in Hospitals with Clinic of Metabolic Diseases and Gastroenterology, National Food and Nutrition Institute, Warsaw, Poland
- PO2193 DXA MEASURES OF BONE MASS IN MORBIDLY OBESE YOUNG ADULT WOMEN**
M. Crivelli, Instituto de Nutrição, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil
- PO2194 VITAMIN D AND DIABETIC RETINOPATHY**
Z. Aslani, Students' Research Committee, Faculty of Health & Nutrition, Tabriz University of Medical Sciences, Tabriz, Iran
- PO2195 ASSESSMENT OF RISK FACTORS OF LIPID IN CARDIOVASCULAR COMPLICATIONS FOR 121 DIABETIC WOMEN TYPE II**
B. Loubna, Institut of Nutrition, Food and Food Technology- INATAA, Depok, West Java Province, Indonesia
- PO2196 EVOLUTION OF NUTRITIONAL STATUS IN CHILDREN WITH CYSTIC FIBROSIS IN EASTERN ROMANIA**
L. Trandafir, Department of Pediatrics, University of Medicine and Pharmacy Grigore T. Popalasi, Romania
- PO2197 RELATIONSHIP AMONG TG/HDL-C RATIO, NUTRITIONAL STATUS AND INTAKE OF OMEGA-6 AND OMEGA-3 FATTY ACIDS IN PRE AND POSTMENOPAUSAL WOMEN**
E. Torresani, School of Nutrition, Faculty of Medicine - University of Buenos Aires, UBACYT Project 2010-2012, Buenos Aires, Argentina
- PO2198 EFFECT OF THE TEMPORAL PATTERNS OF FOOD INTAKE ON GLYCEMIC CONTROL IN JAPANESE MALE TYPE 2 DIABETIC PATIENTS**
S. Wada, Kyoto Prefectural University, Kyoto, Japan
- PO2199 A GENE VARIANT IN THE TRANSCRIPTION FACTOR 7-LIKE 2 (TCF7L2) IS ASSOCIATED WITH AN INCREASED RISK OF GESTATIONAL DIABETES MELLITUS**
A. Pagan, Physiology Department, Faculty of Biology, University of Murcia, Murcia, Spain
- PO2200 VITAMIN D STATUS AND MORTALITY IN PATIENTS WITH STABLE ANGINA**
E. M. Degerud, Department of Clinical Medicine, University of Bergen, Bergen, Norway
- PO2201 PREVALENCE OF OBESITY IN THE "INMA: ENVIRONMENT AND CHILDHOOD" SPANISH COHORT, ACCORDING TO DIFFERENT CRITERIA**
I. Calvente, Laboratory of Medical Investigations, San Cecilio University Hospital, University of Granada, Granada, Spain
- PO2202 EFFECTS OF FRUCTOOLIGOSACCHARIDES IN THE CD4+CD62L+ T CELL TRANSFER MODEL OF COLITIS**
F. Capitan-Cañadas, Department of Biochemistry and Molecular Biology II, School of Pharmacy, University of Granada, Granada, Spain
- PO2203 EFFECT OF PRE/POST RICE CONSUMPTION OF MILK AND FERMENTED SOYBEAN ON POSTMEAL GLYCEMIA AND INSULIN RESPONSES IN HEALTHY STUDENTS**
K. Sueda, Department of Health and Nutrition, Aichi Gakuin University, Nisshin, Japan
- PO2204 FOOD PATTERN, BMI, BODY COMPOSITION AND CD4 CELL COUNT OF ADULT LIVING WITH HIV/AIDS IN EAST JAVA (INDONESIA)**
S. R. Nadhiroh, Nutrition Department, Public Health Faculty, Universitas Airlangga, Surabaya, East Java, Indonesia
- PO2205 RETINOL, TOCOPHEROL AND β -CAROTENE STATUS AND OXIDATIVE STRESS IN CHINESE PATIENTS WITH PULMONARY TUBERCULOSIS**
A. Ma, The Institution of Human Nutrition, Medical College, Qingdao University, Shandong, China
- PO2206 EFFECT OF RETINOL AND VITAMIN D TREATMENT ON THE GROWTH OF MYCOBACTERIUM TUBERCULOSIS FROM TUBERCULOSIS PATIENTS**
A. Ma, The Institute of Human Nutrition, Medical College of Qingdao University, Shandong, China
- PO2207 EFFECT OF AMMONIA AND GLUTAMINE ON BRANCHED-CHAIN AMINO ACID OXIDATION AND PROTEIN METABOLISM IN HEALTHY AND ENDOTOXEMIC RATS**
M. Holecek, Charles University Prague Medical Faculty In Hradec Kralove Hradec Kralove, Prague, Czech Republic
- PO2208 CLEAR KEFIR PROBIOTICS REDUCED POTENTIALLY ON GLYCEMIC STATUS, LIPID PEROXIDATION OF THE DIABETES MELLITUS PATIENTS IN WEST JAVA, INDONESIA**
J. Judiono, The Bandung Health Polytechnic, MOH RI. Nutrition Faculty, Java, Indonesia
- PO2209 MICRONUTRIENTS DIETS MODIFICATION REDUCED ON BLOOD GLUCOSE OF THE TYPE 2 DIABETES MELLITUS (T2DM) IN WEST JAVA, INDONESIA (STUDY ON ENRICHMENT DIET OF ZINC, SELENIUM AND ZINC AND SELENIUM SELENIUM COMBINED)**
J. Judiono, The Bandung Health Polytechnic, MOH RI. Nutrition Faculty, Java, Indonesia
- PO2210 RELATIONSHIP BETWEEN SLEEP, HUNGER, CRAVINGS FOR FOOD, SEDENTARY LIFESTYLE AND WEIGHT IN ADOLESCENTS**
V. M. Cardenas-Villarreal, Universidad Autonoma De Nuevo Leon, Monterrey, Mexico
- PO2211 RELATIONSHIP BETWEEN SLEEP AND OBESITY IN ADOLESCENTS IN NORTHEASTERN MEXICO**
V. M. Cardenas-Villarreal, Universidad Autonoma de Nuevo Leon, Monterrey, Mexico
- PO2212 OATS AS HIGH-VALUE CEREAL ADDITIVE FOR COELIAC SUBJECTS: DEVELOPMENT OF NEW VARIETIES NON-TOXIC FOR THE COELIAC POPULATION**
C. Sousa, Departamento Microbiologia y Parasitologia, Facultad de Farmacia, Universidad de Sevilla, Sevilla, Spain
- PO2213 ROLE OF NUTRITIONAL INTERVENTION, AS ONE OF THE PACKAGE OF SERVICES PROVIDED TO HIV INFECTED PATIENTS**
G. Saleh, National Nutrition Institute, Cairo, Egypt
- PO2214 CLINICAL-NUTRITIONAL STATUS OF OBESE POST-MENOPAUSAL WOMEN ON A WEIGHT LOSS PROGRAM BASED ON PREPARED DISHES**
J. Molina-Lopez, Department of Physiology, Institute of Nutrition and Food Technology, University of Granada, Granada, Spain
- PO2215 DOCOSAHEXAENOIC ACID SUPPLEMENTATION AND INSULIN RESISTANCE IN OBESE CHILDREN IN A DOUBLE-BLIND RANDOMISED CONTROLLED CLINICAL TRIAL: A PILOT STUDY**
E. Verduci, Department of Pediatrics, San Paolo Hospital, University of Milan, Milan, Italy

PO2216 POLYMORPHISM RS17782313 IN MC4R GENE IS NOT ASSOCIATED WITH BINGE EATING BEHAVIOR IN A BRAZILIAN COHORT OF OVERWEIGHT CHILDREN

A E. Fernandes, Laboratory of Carbohydrates and Radioimmunoassay/LIM-18, Faculty of Medicine, University of Sao Paulo, Sao Paulo, SP, Brazil

PO2217 RS12970134 IN MC4R GENE IS NOT RELATED TO WORST METABOLIC PROFILE IN OVERWEIGHT CHILDREN

A E. Fernandes, Laboratory of Carbohydrates and Radioimmunoassay/LIM-18, Faculty of Medicine, University of Sao Paulo, Sao Paulo, SP, Brazil

PO2218 ASTHMA AND EXCESS BODY WEIGHT

F. Benedetti, Centro Universitario Franciscano – Unifra, Rio Grande do Sul, Brazil

PO2219 ASSOCIATION BETWEEN INTAKE OF FRUITS AND BETA-CAROTENE AND AMYOTROPHIC LATERAL SCLEROSIS RISK IN KOREANS: A CASE-CONTROL STUDY

Y. Park, Department of Food and Nutrition, Hanyang University, Seoul, Korea

PO2220 ROLE OF TYPE OF DIETARY FAT IN THE ETIOPATHOGENESIS OF CARCINOGEN-INDUCED BREAST NEOPLASM IN FEMALE FISCHER RATS

U. Putcha, Pathology Division, National Institute of Nutrition, Hyderabad, Andhra Pradesh, India

PO2222 ADEQUACY OF SHROB RATS AS A MODEL FOR THE METABOLIC SYNDROME IN NUTRITIONAL STUDIES

E. Molinar-Toribio, Institute of Advanced Chemistry of Catalonia (IQAC-CSIC), Barcelona, Spain

PO2223 THE FLAVONOID RUTIN ATTENUATES RAT ILEITIS INDUCED BY TRINITROBENZENE SULFONIC ACID

C. Mascaraque Molina, University of Granada, Granada, Spain

PO2224 APIGENIN K HAS INTESTINAL ANTI-INFLAMMATORY EFFECT IN TWO EXPERIMENTAL MODELS COLITIS IN THE RAT.

R. Gonzalez, University of Granada/ CIBERehd, Granada, Spain

PO2225 EFFECTS OF REDUCED FAT FRANKFURTERS AND PÂTES ON METABOLIC SYNDROME COMPONENTS OF VOLUNTEERS AT INCREASED CARDIOVASCULAR RISK. A PLACEBO-CONTROLLED STUDY

P. Celada, Departamento de Nutricion y Bromatologia I (Nutricion). Facultad de Farmacia, Universidad Complutense, Madrid

PO2226 POSITIVE INTERACTION BETWEEN PREBIOTIC NUTRIENTS AND THIAZOLIDINEDIONE IN THE CONTROL OF ADIPOSITY

M. Alligier, Metabolism and Nutrition Research Group, Louvain Drug Research Institute, Universite Catholique de Louvain, Louvain-La-Neuve, Belgium

PO2227 NUTRITIONAL KNOWLEDGE AND ASSOCIATION WITH DIETARY PRACTICES AMONG CANCER PATIENTS: A CASE STUDY OF KENYATTA NATIONAL HOSPITAL CANCER TREATMENT CENTER

C. Muthike, University of Nairobi, Nairobi, Kenya

PO2228 HEALTH IMPLICATIONS OF RICE CULTIVAR DIVERSITY AND CARBOHYDRATE DIGESTIBILITY IN CAMBODIA

S. Sar, Centre for Nutrition and Food Sciences, Queensland Alliance for Agriculture and Food Innovation, The University of Queensland, Brisbane, QLD 4072, Australia

PO2229 FISH OIL INTAKE ENHANCES ENERGY UTILIZATION BY INDUCTION OF UCPI EXPRESSION IN ADIPOSE TISSUE

M J. Kim, Laboratory of Molecular Function of Food, Division of Food Science and Biotechnology, Graduate School of Agriculture, Kyoto University, Uji, Japan

PO2230 TOBACCO SMOKE AND SIDE-STREAM CIGARETTE SMOKE INDUCE THE RISK OF CARDIOVASCULAR DISEASE

D. Viroonudomphol, Department of Chemical Metrology and Biometry, National Institute of Metrology (Thailand), Pathumthani, Thailand

PO2231 CEREAL FOODS AND COMPONENTS IN OUR DAILY DIETS AND THEIR IMPORTANCE FOR HEALTH

G. Riccardi, Federico II University, Napoli, Italy

PO2232 ACTIVATION MECHANISM OF DRUG-METABOLIZING PHASE II ENZYMES BY 3-O-[2-O-(α -D-XYLOPYRANOSYL)- β -D-GALACTOPYRANOSYL]-KAEMPFEROL

S. Iwami, Graduate School of Agricultural Science, Kobe University, Japan

PO2233 6-METHYLSULFINYL HEXYLISOTHIOCYANATE INHIBITS CELL CYCLE PROGRESSION ACCOMPANIED BY INTERACTION WITH GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE

M. Ishimura, Graduate School of Agriculture, Kobe University, Japan

PO2234 OSTEOPOROSIS RISK FACTORS CONNECTED WITH NUTRITION AMONG ADULTS WITH CARDIOVASCULAR DISEASES

A. Ostachowska-Gasior, Jagiellonian University Medical College Hygiene and Dietetics Dpt, Poznan, Poland

PO2235 DAIRY PRODUCTS IN A DIET OF OBESE MEN WITH CARDIAC DISORDERS AND HYPERCHOLESTEROLEMIA

A. Ostachowska-Gasior, Department of Hygiene and Dietetics, Medical College, Jagiellonian University, Krakow, Poland

PO2236 EVOLUTION OF LYMPHOCYTE SUBSETS IN FIRST-EPISODE ANOREXIA NERVOSA PATIENTS DURING THE FIRST YEAR OF TREATMENT

A. Gheorghe, Department of Metabolism and Nutrition, Institute of Food Science and Technology and Nutrition (ICTAN)-CSIC, Madrid, Spain

PO2237 EFFECT OF WHOLE GRAIN WHEAT VERSUS REFINED WHEAT DIET ON METABOLIC HEALTH IN ZUCKER FA/FA RATS

J P. Godin, Nestlé Research Center, Lausanne, Switzerland

PO2238 DAILY INCLUSION OF ALMONDS (1.5 OUNCES) IN A CHOLESTEROL-LOWERING DIET MAINTAINS HDL-CHOLESTEROL AND HDL SUBCLASSES IN MILDLY HYPERCHOLESTEROLEMIC ADULTS

C E. Berryman, Department of Nutritional Sciences, The Pennsylvania State University, University Park, Pennsylvania, United States

PO2239 DIETARY PATTERNS AND NUTRITIONAL STATUS IN METABOLIC SYNDROME PATIENTS

J. Mulero, Universidad Catolica San Antonio, Guadalupe, Murcia, Spain

PO2240 FLAXSEED LIGNAN METABOLITES ELICIT ANTI-HYPERTENSIVE EFFECTS IN PAD PATIENTS IN THE FLAX-PAD TRIAL

A. Edel, Department of Physiology, Institute of Cardiovascular Sciences, University of Manitoba and St. Boniface Research Centre, Winnipeg, Manitoba, Canada

PO2241 NUTRITIONAL MANAGEMENT OF BLOOD GLUCOSE LEVELS

W. Russell, Rowett Institute of Nutrition and Health, University of Aberdeen, Aberdeen, UK

PO2242 DIETARY AND URINARY PHYTOESTROGENS AND PLASMA LIPIDS IN MEXICAN WOMEN

G. Caire-Juvera, Direction of Nutrition, Centro de Investigacion en Alimentacion y Desarrollo, Hermosillo, Mexico

PO2243 ANTHROPOMETRIC INDICATORS IN A REPRESENTATIVE SAMPLE OF SPANISH ADULTS: DIFFERENCES BY HYDRATION STATUS

L. Gonzalez-Rodriguez, Department of Nutrition, Faculty of Pharmacy, Complutense University of Madrid, Madrid, Spain

- PO2244 ASSOCIATION OF SUBCLINICAL ATHEROSCLEROSIS WITH DIFFERENT STANDARDS OF THE METABOLIC SYNDROME AND INSULIN RESISTANCE**
P. Arnai, Pontificia Universidad Catolica de Chile, Santiago de Chile, Chile
- PO2245 EFFECT OF HASS AVOCADO INTAKE ON POST-INGESTIVE SATIETY AND SUBSEQUENT ENERGY INTAKE IN HEALTHY OVERWEIGHT ADULTS**
M. Wien, Department of Nutrition, Loma Linda University, Loma Linda, California, USA
- PO2246 EFFECT OF HASS AVOCADO INTAKE ON POST-INGESTIVE GLUCOSE AND INSULIN LEVELS IN HEALTHY OVERWEIGHT ADULTS**
E. Haddad, Department of Nutrition, Loma Linda University, Loma Linda, California, USA
- PO2247 METHIONINE ADENOSYLTRANSFERASE EXPRESSION DEPENDS ON METHIONINE CONCENTRATIONS IN THE CULTURE MEDIA**
M P. Gonzalez, Department of Pharmaceutical and Food Sciences, Universidad CEU San Pablo, Madrid, Spain
- PO2248 HYPERTENSION AND LIPID TRIAD ARE THE MOST IMPORTANT ATTRIBUTABLE RISKS FOR MYOCARDIAL INFARCTION IN A MIDDLE CLASS URBAN MEXICAN POPULATION**
T. Estrada-Garcia, Cinvestav-IPN, Mexico
- PO2249 INSULIN RESISTANCE AND METABOLIC SYNDROME ASSOCIATED TO BANKING EMPLOYEES IN SOUTHEASTERN BRAZIL**
L. Salaroli, Physiological Sciences, Postgraduate Program, Federal University of Espirito Santo, Vitoria, Brazil
- PO2250 ASSOCIATION OF AREA, INCOME, OCCUPATION AND EDUCATION LEVELS WITH OBESITY IN JILIN PROVINCE IN CHINA**
Q. Wei, Department of Cardiology, The First Hospital of Jilin University, Changchun, Jilin Province, China
- PO2251 INFLUENCE OF BODY COMPOSITION IN BONE MASS**
P. Freitas, Institute of Community Health of Fluminense Federal University, Niteroi, Rio de Janeiro, Brazil
- PO2252 NUTRITIONAL CARE OF A HEMODIALYTIC PATIENT WITH LIVER CIRRHOSIS: A CASE REPORT**
M L. Lu, Department of Dietetics & Nutrition, Taipei City Hospital Zhongxiao Branch, Taipei, Taiwan
- PO2253 THE BRIGHT AND HEALTHY THAI KID PROJECT, A THREE-YEAR STUDY TO COMBAT CHILDHOOD OBESITY**
C. Sirikulchayanonta, Department of Nutrition, Faculty of Public Health, Mahidol University, Nakhon Pathom, Thailand
- PO2255 DIETARY EGG YOLK PROTEINS SUPPRESS INFLAMMATION OF DEXTRAN SULFATE SODIUM-INDUCED COLITIS IN MICE**
S I. Ishikawa, School of Food, Agricultural and Environmental Sciences, Miyagi University, Miyagi, Japan
- PO2256 DIETARY PECTIC-OLIGOSACCHARIDES FROM BEET PULP MODULATE THE GUT MICROBIOTA AND CONTROL CANCER ASSOCIATED CACHEXIA IN MICE**
A. Neyrinck, Metabolism and Nutrition Research Group, Louvain Drug Research Institute, Universite catholique de Louvain, Brussels, Belgium
- PO2257 HIGHER DIETARY QUALITY IS ASSOCIATED WITH LOWER RISK FOR TYPE 2 DIABETES IN A MIDDLE-AGED AND OLDER CHINESE POPULATION**
X. Ye, Institute For Nutritional Sciences, Shanghai Institute For Biological Sciences, Chinese Academy of Sciences, Shanghai, China
- PO2258 MODERATE MISO SOUP CONSUMPTION MAY REDUCE THE RISK OF CARDIOVASCULAR RISK FACTORS IN JAPANESE PROSPECTIVE COHORT STUDY: THE SUITA STUDY**
Y. Kokubo, National Cerebral and Cardiovascular Center, Osaka, Japan
- PO2259 EFFECTS OF PERILLA OIL ON BONE LOSS IN OVARECTOMIZED RATS**
Y S. Chiu, School of Nutrition and Health Sciences, Taipei Medical University, Taipei, Taiwan
- PO2260 FACILITATORS AND BARRIERS TO ADOPTING RECOMMENDATIONS OF THE HEBAT! PROGRAMME (A FAMILY-BASED CHILDHOOD OBESITY INTERVENTION): FINDINGS FROM FOCUS GROUP DISCUSSION**
B S Sabariah, Department of Nutrition & Dietetics, Centre For Study of Disease Prevention & Healthcare Services, Faculty of Health Sciences, MARA University of Technology, Selangor, Malaysia
- PO2261 DO VEGETARIANS HAVE A LOWER RISK OF OBESITY THAN NON-VEGETARIANS IN HIGH AND LOW OBESITY ENVIRONMENTS?**
N. Rizzo, Department of Nutrition, School of Public Health, Loma Linda University, Loma Linda, USA
- PO2262 DIETARY PATTERNS AND THEIR ASSOCIATION WITH THE METABOLIC SYNDROME AND ITS COMPONENT RISK FACTORS**
N. Rizzo, Nutrition Department, School of Public Health, Loma Linda University, California, Loma Linda, USA
- PO2263 ANTIHYPOGLYCEMIC ACTIVITY OF MYRTUS COMMUNIS IN ALLOXAN-INDUCED DIABETIC RATS**
H. Berredjem, University of Badji Mokhtar, Annaba, Algeria
- PO2264 FORMULATION AND OPTIMIZATION BY EXPERIMENTAL DESIGN OF LOW-FAT MAYONNAISE BASED ON SOY LECITHIN AND WHEY**
N. Zaouadi, Department of Agronomy, Faculty of Veterinary and Agro Biology, SAAD DAHLAB University, BP 270, soumâa, Blida, Algeria
- PO2265 PREVALENCE AND PREDICTING CLINICAL OUTCOME OF CARDIAC PATIENTS BY NUTRITION RISK SCREENING (NRS)**
R. Jayawardena, Diabetes Research Unit, Department of Clinical Medicine, Faculty of Medicine, University of Colombo, Colombo, Sri Lanka
- PO2266 DIFFERENCES BETWEEN FEMALE AND MALE DIABETIC PATIENTS IN FACTORS ASSOCIATED WITH HYPERTRIGLYCERIDEMIA**
B. Muktabhant, Research Group on Prevention and Control of Diabetes in the Northeast, Faculty of Public Health, Khon Kaen University, Khon Kaen, Thailand
- PO2267 BIRTH WEIGHT AND BREASTFEEDING: PROTECTIVE FACTORS AGAINST OBESITY**
F. Tebbani, Institute of Nutrition, Food and Food Technologies, Constantine, Algeria
- PO2268 STRAIN-DEPENDENT ANTIBODY AND ANAPHYLACTIC RESPONSES TO WHEAT GLIADIN IN A/J MICE: AN ANIMAL MODEL FOR WHEAT-INDUCED FOOD ALLERGY**
K. Hirano, Department of Applied Molecular Biosciences, Graduate School of Bioagricultural Sciences, Nagoya University, Chikusa-ku, Nagoya, Japan
- PO2269 EVALUATION OF THE HYPOCHOLESTEROLEMIC EFFECT OF ANTIOXIDANT EXTRACTS FROM SOME ALGERIAN DATE VARIETIES (PHOENIX DACTYLIFERA) IN RATS**
S. Ouardia, Departement of food sciences, faculty of sciences, Blida University, Blida, Algeria
- PO2270 EFFECT OF HIGH OLIVE OIL DIETS ON PLASMA GLP1 LEVEL AND ADIPOCYTE DPP4 ACTIVITY**
A B. Segarra, Department of Health Sciences, University of Jaen, 23071 Jaen, Spain
- PO2271 HIGH FAT DIETS AND PLASMA LEVELS OF ADIPOKINES: EFFECT OF DIETARY FATTY ACIDS**
A B. Segarra, Department of Health Sciences, University of Jaen, Jaen, Spain
- PO2272 PREVALENCE OF FOOD INTOLERANCE AND DUMPING SYNDROME IN BARIATRIC SURGERY PATIENTS**
R F. Simony, Mackenzie University, São Paulo, Brazil

- PO2273 MULTIPLE MICRONUTRIENT SUPPLEMENTATION IMPROVES SMALL BOWEL HISTOLOGICAL ARCHITECTURE AND ABSORPTIVE AREA IN ZAMBIAN ADULTS**
J. Louis-Auguste, Centre for Digestive Diseases, Queen Mary University of London, London, UK
- PO2274 PARAOXONASE 1 ACTIVITY AND ITS RELATIONSHIP WITH OBESITY AND CARDIOVASCULAR RISK IN ADOLESCENTS**
A. Mello, School of Public Health, University of Sao Paulo, USP, Brazil
- PO2275 ELETRONEGATIVE LDL AND ITS AUTOANTIBODIES IN ADOLESCENTS WITH RISK FOR CORONARY ARTERY DISEASE**
A. Mello, School of Public Health, University of Sao Paulo, USP, Brazil
- PO2276 ASSOCIATION OF TRANS-FATTY ACIDS IN ABDOMINAL SUBCUTANEOUS AND VISCERAL FAT WITH DIABETES MELLITUS AND CARDIOVASCULAR RISK FACTORS IN MEXICAN WOMEN**
M. Ballesteros-Vasquez, Departamento de Nutricion y Metabolismo, Centro de Investigacion en Alimentacion Y Desarrollo A.C (CIAD AC), Hermosillo, Sonora, Mexico
- PO2277 THE RELATIONSHIP BETWEEN DIETARY CALCIUM INTAKE, PHYSICAL ACTIVITY AND BONE LOSS RATE AMONG CHINESE PERIMENOPAUSAL WOMEN**
J. Deng, Department of Epidemiology and Health Statistics, School of Public Health, Central South University, Changsha, Hunan, China
- PO2278 NUTRITION SUPPORT IN OLDER INPATIENTS AND ITS ASSOCIATION WITH NUTRITIONAL STATUS AND CLINICAL OUTCOME**
H. P. West China Hospital, Sichuan University, Sichuan, China
- PO2279 RESVERATROL UPTAKE BY VASCULAR ENDOTHELIAL CELLS IS THROUGH PASSIVE DIFFUSION AND AN SGLT1-MEDIATED PROCESS**
Y. Long, Research Center For Nutrition and Food Safety, Institute of Military Preventive Medicine, Third Military Medical University, Chongqing, P.R. China
- PO2280 SUPPRESSION OF DIABETES-ASSOCIATED GLOMERULAR ANGIOGENESIS BY ANTHOCYANIN-RICH PURPLE CORN EXTRACT**
M K. Kang, Department of Food Science and Nutrition, Hallym University, Chuncheon, Republic of Korea
- PO2281 ANTIOXIDANT SUPPLEMENT HAD A LOWER EFFECT OF ATOPIC DERMATITIS IN YOUNG CHILDREN: A RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, CLINICAL TRIAL**
S Y. Oh, Department of Food and Nutrition, Kyung Hee University, Seoul, Korea
- PO2282 MARKERS OF INFLAMMATION ASSOCIATED WITH NAFLD**
R. Leis, Department of Pediatrics, University Clinic Hospital of Santiago-Santiago De Compostela University, Santiago De Compostela, Spain
- PO2283 KAEMPFEROL ATTENUATES AIRWAY FIBROSIS BY DISTURBING TGF- β -PAR-1 SIGNALING IN HUMAN BRONCHIAL EPITHELIAL CELLS AND OVALBUMIN-CHALLENGED MICE**
J H. Gong, Department of Food Science and Nutrition, Hallym University, Chuncheon, Republic of Korea
- PO2284 A BETTER WAY TO REDUCE CARDIOVASCULAR RISK AMONG PATIENTS WITH METABOLIC SYNDROME? STUDY PROTOCOL FOR A HOSPITAL-BASED RANDOMIZED CONTROLLED TRIAL**
P. Amarasekara, National Hospital of Sri Lanka, Colombo, Sri Lanka
- PO2285 SOY FIBER IMPROVES WEIGHT LOSS AND LIPID PROFILE IN OVERWEIGHT AND OBESE ADULTS: A RANDOMIZED CONTROLLED TRIAL**
X. Hu, Zhejiang University, Zhejiang, China
- PO2286 CALCIUM INTAKE IN SPANISH ADOLESCENTS IS RELATED WITH THEIR LEVEL OF BONE MINERAL DENSITY**
B. Rueda, Department of Nursing, Granada Health Sciences Faculty, University of Granada, Granada, Spain
- PO2287 BONE MINERAL DENSITY AND PHYSICAL ACTIVITY ARE RELATED IN SPANISH ADOLESCENTS**
J. SchmidtRio-Valle, Department of Nursing, Granada Health Sciences Faculty, University of Granada, Granada, Spain
- PO2288 IMPACT OF OBESITY AND PHYSICAL INACTIVITY ON FASTING BLOOD GLUCOSE, LIPID PROFILE AND HOMEOSTATIC MODEL ASSESSMENT (HOMA) AMONG CHILDREN**
N. Aboul Ella, National Nutrition Institute, Cairo, Egypt
- PO2289 HYPOVITAMINOSIS D AND OBESITY**
R. Leis, Department of Pediatrics, University Clinic Hospital of Santiago-Santiago De Compostela University, Santiago De Compostela, Spain
- PO2291 PREDICTORS OF WEIGHT LOSS AND/OR WEIGHT LOSS MAINTENANCE: AN INTERNET BASED SURVEY**
K. Myrissa, Institute of Psychological Sciences, University of Leeds, Leeds, UK
- PO2292 ANTHROPOMETRIC EVOLUTION IN PEDIATRIC PATIENTS TREATED WITH HOME ENTERAL NUTRITION**
P. Malillos, Division of Pediatric Gastroenterology and Nutrition, Hospital Infantil Universitario Niño Jesus, Madrid, Spain
- PO2293 DOWNREGULATION OF EPIDERMAL GROWTH FACTOR RECEPTOR BY CURCUMIN-INDUCED UBE1L IN LUNG CARCINOGENESIS**
Q. Feng, Department of Nutrition and Food Safety, School of Public Health, Nanjing Medical University, Nanjing, China
- PO2294 PREVALENCE AND FACTORS ASSOCIATED WITH OVERWEIGHT AND OBESITY AMONG HIV-INFECTED PATIENTS IN DAR ES SALAAM, TANZANIA**
H. Semu, Ministry of Health and Social Welfare, Dar es Salaam, Tanzania
- PO2295 LIQUIRITIGENIN INHIBITS SERUM-INDUCED HIF-1 α AND VEGF EXPRESSION VIA THE AKT/MTOR-P70S6K SIGNALLING PATHWAY IN HELA CELLS**
X. Si-Rou, Department of Nutrition and Food Hygiene, School of Public Health, Nanjing Medical University, Nanjing, China
- PO2296 FEEDING PROBLEMS OF THE DIABETICS AND ITS IMPLICATIONS IN THE TREATMENT OF DIABETES IN IDEMILI NORTH L.G.A OF ANAMBRA STATE, NIGERIA**
N. Anene, Nutrition Society of Nigeria, Nigeria
- PO2297 NUTRITIONAL STATUS ASSESSMENT OF CELIAC CHILDREN FROM THE BASQUE COUNTRY**
A. Lasa, Gluten Analysis Laboratory, Dpt. Nutrition & Food Sciences, Faculty of Pharmacy, University of the Basque Country (UPV/EHU), Vitoria, Spain
- PO2298 EVALUATION OF BODY COMPOSITION AND DIETARY BEHAVIOUR IN ADULT CELIAC WOMEN FROM THE BASQUE COUNTRY**
J. Miranda, Gluten Analysis Laboratory, Dpt. Nutrition & Food Sciences, Faculty of Pharmacy, University of the Basque Country (UPV/EHU), Vitoria, Spain
- PO2299 EFFECT OF ALMOND SUPPLEMENTATION ON THE CARDIO-VASCULAR RISK FACTORS IN TYPE 2 DIABETES**
S. Gulati, Diabetes Foundation (India), New Delhi, India
- PO2300 DETECTION OF S-(2-SUCCINYL) CYSTEINE (2SC) IN ADIPOCYTES AND IN SERUM BY LC-MS/MS AS A MARKER FOR ADIPOSE TISSUE METABOLISM**
i. Nagai, Tokai University, Kanagawa, Japan

- PO2301 THE EFFECT OF COMBINATION OF LAURIC AND OLEIC ACIDS ON LIPOTOXICITY**
Y. Kitaura, Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, Japan
- PO2302 INSULIN RESISTANCE IN GLUCOSE TOLERANT OBESE ADOLESCENTS ARE ASSOCIATED WITH INCREASED LEVEL OF PLASMA HSCR P AND URIC ACID**
A. Bukhari, Department of Nutrition, Faculty of Medicine, Hasanuddin University, Sulawesi Selatan, Indonesia
- PO2303 OBESITY AND MASTICATORY EFFICIENCY**
C H. Malek-Zadeh, Department of Internal Medicine, Faculty of Medicine of Ribeirão Preto, University of São Paulo, Ribeirão Preto, SP, Brazil
- PO2304 "KIDS IN MOTION" PROGRAM FOR OBESE MEXICAN POPULATION: A CASE REPORT**
E. Escalante-Izeta, Health department, Universidad Iberoamericana, Mexico DF, Mexico
- PO2305 APPLICATION OF NUTRITION CARE PROCESS FOR HIV POSITIVE PATIENTS IN INDONESIA: AN EXPLORATORY STUDY**
M T P L. Kusuma, School of Health Nutrition, Faculty of Medicine, Universitas Gadjah Mada, Yogyakarta, Indonesia
- PO2306 THE MAGNITUDE OF OVERWEIGHT AND OBESITY AMONG UNDER-FIVE CHILDREN IN IDO AND IBADAN NORTH LOCAL GOVERNMENT AREAS NIGERIA**
B. Bamisaye, Department of Human Nutrition, College of Medicine, Faculty of Public Health, University of Ibadan, Nigeria
- PO2307 LIFESTYLE INTERVENTIONS IN OBESITY TREATMENT**
M. Andjelkovic, Sports Medicine Association of Serbia, Belgrade, Serbia
- PO2308 PROTEIN AND CALCIUM INTAKE AND ITS RELATIONSHIP WITH BONE REMODELING MARKERS DURING THE REPRODUCTIVE AGING OF WOMEN**
A L. Carvalho, Department of Internal Medicine, School of Medicine of Ribeirão Preto, University of São Paulo, Ribeirão Preto, São Paulo, Brazil
- PO2309 INCREASING WHOLE GRAIN FOOD CONSUMPTION SEEMS TO BE A PROMISING STRATEGY IN PROMOTING WEIGHT LOSS IN OVERWEIGHT OR OBESE ADULTS**
E. Fappa, Department of Nutrition and Dietetics, Harokopio University, Athens, Greece
- PO2310 EFFECT OF NUTRITIONAL COUNSELING BASED ON QUALITY AND QUANTITY OF CARBS ON METABOLIC PARAMETERS IN INSULIN-RESISTANT ADOLESCENTS (IR)**
P. Ortiz, Carrera Nutricion y Dietetica, Facultad de Farmacia, Universidad de Valparaiso, Valparaiso, Chile
- PO2311 RELATIONSHIP BETWEEN ENERGY INTAKE, BODY COMPOSITION AND RISK OF HYPERTENSION IN AN ADULT MALE PUNJABI MIGRANT POPULATION IN KENT, UK**
S. Sarkar, School of Science, University of Greenwich, Greenwich, UK
- PO2312 EXERCISE IS A LEPTIN SIGNALLING MIMETIC, AND WHEY PROTEIN INGESTION FACILITATES LEPTIN SIGNALLING IN HUMAN SKELETAL MUSCLE**
J G. Ponce-Gonzalez, Department of Physical Education, University of Las Palmas de Gran Canaria, Campus Universitario de Tafira s/n, Las Palmas de Gran Canaria, Spain
- PO2313 WEIGHT LOSS BEFORE BARIATRIC SURGERY: HOW LONG PATIENTS REACH THE GOAL?**
L. Galdino Dos Santos, Hospital Regional Da Asa Norte SES-DF, Brasília, Brazil
- PO2314 VARIABLES ASSOCIATED WITH ABDOMINAL OBESITY IN ADULTS: POPULATION-BASED STUDY IN CAMPINAS/SP**
D F. Mendes Camargo, Department of Public Health, State University of Campinas - UNICAMP, Campinas, Brazil
- PO2315 OPPORTUNITIES AND CHALLENGES IN OBESITY PREVENTION AND CONTROL: STUDY DESIGN AND BASELINE FINDINGS FROM A PILOT STUDY IN CHINA**
M. Yang, Institute of Child & Adolescent Health, School of Public Health, Peking University Health Science Center, Beijing, China
- PO2316 ASSESSMENT OF DIETARY KNOWLEDGE AND INTAKE AMONG PEOPLE LIVING WITH HIV/AIDS IN NEPAL**
D. Upreti, Institute of Applied Health Sciences, University of Aberdeen, Aberdeen, UK
- PO2317 EVALUATION OF PLASMA ANTIOXIDANT STATUS AND ANTIOXIDANT ENZYME ACTIVITY IN TYPE 2 DIABETES MELLITUS PATIENTS AND NON-DIABETIC CONTROLS**
K D R R. Silva, Department of Applied Nutrition, Faculty of Livestock, Fisheries & Nutrition, Wayamba University of Sri Lanka, Kuliyaipitiya, Sri Lanka
- PO2318 BODY COMPOSITION AND CARDIOVASCULAR RISK FACTORS IN PATIENTS WITH SCHIZOPHRENIA**
B. Vidovic, Department of Bromatology, Faculty of Pharmacy, University of Belgrade, Belgrade, Serbia
- PO2319 COMORBIDITIES ASSOCIATED WITH OBESITY BEFORE AND ONE YEAR AFTER BARIATRIC SURGERY IN A PUBLIC HOSPITAL IN BRASILIA, BRAZIL**
L. Jorge, Hospital Regional Da Asa Norte SES-DF, Brasília, Brazil
- PO2320 HYPERTRIGLYCERIDEMIC WAIST PHENOTYPE AND LIPID MARKERS OF CARDIOMETABOLIC RISK IN ADOLESCENTS**
M E. Conceição-Machado, Department of Nutritional Science, Nutrition School, Universidade Federal Da Bahia (ENUFBA), Salvador de Bahia, Brazil
- PO2321 PREVALENCE OF UNDETECTED COELIAC DISEASE IN CHILDREN BETWEEN 2 AND 4 YEARS OLD, STUDIED BY A RAPID IMMUNOCROMATOGRAPHIC TEST**
V. Almazan Fernandez De Bobadilla, Maracena Primary Care Center (Pediatrician), Granada, Spain
- PO2322 VITAMIN C DEFICIENCY DURING CHEMOTHERAPY FOR COLORECTAL CANCER**
S. Ribeiro, Nutrology Division, Department of Internal Medicine, Ribeirão Preto School of Medicine, University of São Paulo, Brazil
- PO2323 ABETALIPOPROTEINEMIA: VENEZUELA CASE REPORT**
N. Colina, Unit of Pediatric Gastroenterology and Nutrition, Dr. Carlos Arvelo Military Hospital, Caracas, Venezuela
- PO2324 EFFECT OF SUPPLEMENTATION WITH BETA-GLUCAN FROM PLEUROTUS OSTREATUS IN CHILDREN WITH RECURRENT RESPIRATORY TRACT INFECTIONS**
L. Pico, Hospital Casa Salud, Valencia, Spain
- PO2325 GLYCEMIC INDEX DIET AND RELATION WITH WEIGHT LOSS IN WOMEN WITH SEVERE AND MORBID OBESITY UNDERGOING BARIATRIC SURGERY**
C. Vega, Departamento Nutricion Y Alimentos, Facultad De Farmacia, Universidad De Valparaiso, Valparaiso, Chile
- PO2326 EFFECTS B-GLUCAN IN GENE EXPRESSION OF MCF-7 CELL ON NUTRITIONAL ASSESSMENT, HEMATOLOGICAL, BIOCHEMICAL AND OXIDATIVE STRESS, WOMEN WITH BREAST CANCER**
C. Carreira, Universidade Estadual de Londrina, Londrina, Brazil
- PO2327 THERMAL IMAGE OF BROWN ADIPOSE TISSUE ACTIVITY IN CHILDREN BORN TO OVERWEIGHT, OBESE AND DIABETIC PREGNANT WOMEN**
D. Campos, EURISTIKOS Excellence Centre for Paediatric Research, University of Granada, Granada, Spain

- PO2328 NUTRITIONAL PROFILE OF PATIENTS IN PREOPERATIVE CARDIAC SURGERY.**
L. Brito, Federal University Aracaju, Sergipe, Brazil
- PO2329 SELENATE PREVENTS DIET-INDUCED OBESITY WITH IMPROVED INSULIN SENSITIVITY IN VIVO**
K H. Kim, Department of Food Science, Purdue University, West Lafayette, Indiana, USA
- PO2330 CORRELATION OF NUTRITIONAL FACTORS WITH THE QUALITY OF LIFE AND FATIGUE INTENSITY AMONG PATIENTS UNDERGOING CHEMOTHERAPY CYCLES**
S. Ribeiro, Medical Nutrition Division, Department of Internal Medicine, Ribeirão Preto, Medical School, University of São Paulo, Ribeirão Preto, São Paulo, Brazil
- PO2331 REGULATION OF HEPATIC BRANCHED-CHAIN ALPHA-KETOACID DEHYDROGENASE COMPLEX IN RATS FED A HIGH-FAT DIET**
Y. Kadota, Department of Applied Molecular Biosciences, Graduate School of Bioagricultural Sciences, Nagoya University, Nagoya, Japan
- PO2332 EARLY INDICATORS OF CHRONIC DISEASE IN OVERWEIGHT MEXICAN CHILDREN**
R. Arellano, Maestria De Nutricion, Facultad de Ciencias Naturales, Universidad Autonoma de Queretaro, Mexico
- PO2333 ASSOCIATION OF MACRONUTRIENT INTAKE WITH OVERWEIGHT AND OBESITY AMONG BANGLADESHI POPULATION: A HOSPITAL BASED STUDY**
S. Hossain, Department of Health Promotion and Health Education, Bangladesh Institute of Health Sciences, Dhaka, Bangladesh
- PO2334 EFFECTS OF A DIET RICH IN OLIVE OIL AND AN EPA + DHA PHARMACEUTICAL COMPOUND IN THE RHEUMATOID ARTHRITIS**
J. Caballero-Villarraso, IMIBIC/Reina Sofia Hospital/University of Cordoba, Cordoba, Spain
- PO2335 FUNCTIONAL COMPOUNDS IN COMBINATION WITH NANO-GOLD PARTICLES MODULATE APOPTOSIS AND MIGRATION POTENTIAL IN HUMAN COLORECTAL CARCINOMA CELLS**
R F. Shu Huang, Department of Ph.D. Program In Nutrition and Food Science, Fu Jen Catholic University, Xinzhuang, Taiwan, Republic of China
- PO2336 RECOMMENDATIONS FOR CANCER PREVENTION WORLD CANCER RESEARCH FUND (WCRF): ANALYSIS FOR CHILE**
M. Crovetto, Facultad de Ciencias de La Salud, Centro De Estudios Avanzados. Universidad de Playa Ancha, Valparaiso, Chile
- PO2337 REDUCED SERUM CONCENTRATIONS OF OSTEOCALCINARE ASSOCIATED WITH RISK OF DEVELOPING TYPE-2 DIABETES MELLITUS IN A HIGH CARDIOVASCULAR RISK POPULATION**
A. Diaz Lopez, Human Nutrition Unit, Sant Joan Hospital, IISPV, Universitat Rovira I Virgili, Reus, Tarragona, Spain
- PO3146 INCIDENCE OF INSTITUTIONAL FOOD SERVICE PRACTICE MANAGEMENT ERRORS IN THE KITCHEN OF A GENERAL HOSPITAL, CHUBU REGION, JAPAN**
S. Maruyama, College of Human Life and Environment, Kinjo Gakuin University, Nagoya, Aichi, Japan
- PO3344 DEVICE INVENTION FOR ASSESSMENT AND TRAINING BETWEEN HOSPITALS BASED ON PRACTICE PROBLEMS**
V. Schejter, Hospital De Pediatria 'Prof. Dr.J.P.Garrahan', Buenos Aires, Argentina
- PO3345 THE KETOGENIC DIET FOR THE TREATMENT OF DRUG-RESISTANT EPILEPSY AND OTHER SYNDROMES: STRATEGIES TO IMPROVE COMPLIANCE AND THERAPEUTIC EFFECT**
G. Mestre, Hospital de Pediatria 'Prof. Dr.J.P.Garrahan' Buenos Aires, Argentina
- PO3346 THE KETOGENIC DIET: A RETROSPECTIVE STUDY OF THE EXPERIENCE OF NUTRITION SUPPORT SERVICES**
G. Mestre, Hospital de Pediatria 'Prof. Dr.J.P.Garrahan' Buenos Aires, Argentina
- PO3347 EFFICACY OF A LOW-FAT YOGURT SUPPLEMENTED WITH A ROOSTER COMB EXTRACT ON JOINT FUNCTION IN MILD KNEE PAIN PATIENTS: A SUBJECT-LEVEL META-ANALYSIS**
D. Moriña, CTNS-TECNIO-Technology Center of Nutrition and Health, Reus, Spain
- PO3348 DIETARY INTAKE OF FOLATE, VITAMIN B6 AND RIBOFLAVIN AND RISK OF DEVELOPMENT OF DIFFERENT MOLECULAR SUBTYPES OF BREAST CANCER IN THE ORDET COHORT**
S. Sieri, Epidemiology and Prevention Unit, Fondazione IRCCS Istituto Nazionale Dei Tumori, Milan, Italy
- PO3349 DRINKING RAW MILK: DOES THIS AFFECT ALLERGY RESPONSES?**
A. Hodgkinson, Food and Bio-based Products, AgResearch Ruakura, Hamilton, New Zealand
- PO3350 INADEQUATE MICRONUTRIENT INTAKE FOR FOOD SECURITY SITUATION OF BENEFITING PRESCHOOL CHILDREN OF BOLSA FAMILIA PROGRAM, VIÇOSA, MINAS GERAIS, BRAZIL**
S. Priore, Federal University of Viçosa, Viçosa, Minas Gerais, Brazil
- PO3351 POST-PRANDIAL GUT HORMONE RELEASE AFTER A HIGH-FAT MEAL CHALLENGE DIFFERS BETWEEN HEALTHY NORMAL WEIGHT AND OBESE VOLUNTEERS**
T. Yeh, Human Development & Health Academic Unit, Faculty of Medicine, University of Southampton, UK
- PO3352 ANTIOXIDANT EFFECT EXERTED BY MEAT EXTRACTS IN A CELL MODEL OF ANGIOTENSIN II INDUCED DAMAGE**
M C. Asensio-Lopez, Cardiology Department, University Hospital Virgen De La Arrixaca, Murcia, Spain
- PO3353 ASSOCIATION BETWEEN CENTRAL BODY ANTHROPOMETRIC MEASURES AND CARDIOVASCULAR RISK FACTORS IN ADOLESCENTS**
S. Priore, Federal University of Viçosa, Viçosa, Minas Gerais, Brazil
- PO3354 COMPARISON OF TREATMENT EFFECTS BETWEEN STERIOD THERAPY AND STEROID-TCM THERAPY IN IGA NEPHROPATHY USING QUANTITATIVE PROTEOMICS**
R X. Li, Key Laboratory of Systems Biology, Institute of Biochemistry and Cell Biology, Shanghai Institutes for Biological Science, Chinese Academy of Sciences, Shanghai, China
- PO3355 EFFECTS OF DIETARY INDUCED WEIGHT LOSS ON PLASMA AMINO ACID PROFILES**
R. Zeng, Key Laboratory of Systems Biology, Institute of Biochemistry and Cell Biology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, China
- PO3356 EFFECTS OF INDIVIDUAL BRANCHED-CHAIN AMINO ACIDS DEPRIVATION ON INSULIN SENSITIVITY AND GLUCOSE METABOLISM IN MICE**
F. Xiao, Institute For Nutritional Sciences, SIBS, CAS, China
- PO3357 HEALTH BENEFITS OF VITAMIN E IN HUMAN STUDIES: EPIDEMIOLOGY VERSUS RANDOMIZED CLINICAL TRIALS**
S. Peter, DSM Nutritional Products Ltd., Kaiseraugst, Switzerland
- PO3358 INTERACTION BETWEEN BMI AND PERSONALITY SUBTYPES IS ASSOCIATED WITH CHANGES IN HPA-AXIS REACTIVITY**
D. Hoogeboom, Alan Turing Institute Almere, Amere, The Netherlands
- PO3359 MEAT PORK EXTRACTS PROTECT CARDIOMYOCYTE AGAINST DAMAGE INDUCED BY ISCHEMIA**
M C. Asensio-Lopez, Cardiology Department, University Hospital Virgen De La Arrixaca, Murcia, Spain

- PO3360 RAPID INCREASES IN PLASMA ANTI-INFLAMMATORY AND PRO-RESOLVING LIPID MEDIATOR SPECIES WITH OMEGA-3 EPA AND DPA SUPPLEMENTATION**
D. Cameron-Smith, Liggins Institute, Auckland, New Zealand
- PO3361 ROLE OF EDUCATION IN THE MANAGEMENT OF TYPE 2 DIABETES DURING RAMADAN FASTING**
M B. Khaled, Djillali Liabes University, Sidi Bel Abbas, Algeria
- PO3362 SELECTED DIETARY NUTRIENTS AND THE PREVALENCE OF METABOLIC SYNDROME IN ADULT MALES AND FEMALES IN SAUDI ARABIA**
N. Khan, Biomarkers Research Program, Biochemistry Department, College of Science, King Saud University, Riyadh, Kingdom of Saudi Arabia
- PO3363 S-EQUOL ENHANCES THE PROLIFERATION OF PANCREATIC BETA-CELLS**
N. Harada, Osaka Prefecture University, Japan
- PO3364 VITAMIN D IN BARIATRIC SURGERY PATIENTS**
M R. Alhambra Exposito, Reina Sofia University Hospital, Murcia, Spain
- PO3365 REPRODUCTIVE FACTORS AND THE RISK OF BREAST CANCER: STUDY OF A POPULATION OF WOMEN IN GRANADA (SPAIN)**
E Gonzalez-Jimenez, Universidad De Garanda, Granada, Spain

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- PO2338 MACRONUTRIENTS AND ENERGY INTAKE OF ADULTS WITH SICKLE CELL DISEASE**
J. Anglin, College of Health and Human Services, California State University, Long Beach, USA
- PO2339 COMPARISON BETWEEN BIOELECTRICAL IMPEDANCE ANALYSIS AND BODY MASS INDEX METHODS IN DETERMINATION OF OBESITY PREVALENCE AMONG IRANIAN WOMEN**
M. Shaneshein, Community Nutrition Department, Faculty of Nutrition Sciences and Food Technology, National Nutrition and Food Technology Research Institute, Shahid Beheshti University of Medical Sciences and Health Services, Tehran, Iran
- PO2341 VALIDITY OF ENERGY INTAKE REPORTS IN RELATION TO DIETARY PATTERNS**
M. Shaneshein, Community Nutrition Department, Faculty of Nutrition Sciences and Food Technology, National Nutrition and Food Technology Research Institute, Shahid Beheshti University of Medical Sciences and Health Services, Tehran, Iran
- PO2342 DIETARY DIVERSITY AND NUTRITIONAL STATUS OF URBAN PRIMARY SCHOOL CHILDREN FROM IRAN AND INDIA**
S. Hooshmand, Department of Food Science and Nutrition, SNDT Women's University, Mumbai, Maharashtra, India
- PO2343 ANTHROPOMETRIC MEASUREMENTS AND NUTRITIONAL STATUS OF URBAN PRIMARY SCHOOL CHILDREN IN SELECTED AREAS OF IRAN AND INDIA: A COMPARATIVE STUDY**
S. Hooshmand, Department of Food Science and Nutrition SNDT Women's University, Mumbai, Maharashtra, India
- PO2344 ZINC, RETINOL AND CD4 STATUS OF HIV/AIDS PATIENTS IN ABEOKUTA, NIGERIA**
T. Bello, Department of Human Nutrition, University of Pretoria, Pretoria, South Africa
- PO2346 COMPARISON OF HEIGHT FOR AGE BY STANDING AND ESTIMATED HEIGHT BY SHOULDER-ELBOW, KNEE-HEEL AND TIBIA-MALLEOLUS, IN COLOMBIAN SCHOOL CHILDREN**
N. Sepulveda, Pontificia Universidad Javeriana, Bogota Colombia
- PO2347 INCREASING DIETARY CALCIUM IN THE FACE OF CALORIC RESTRICTIONS IN HUMANS**
J N D. Sasraku, Pantang Nursing Training College, Accra, Ghana
- PO2348 NEED FOR TRACE ELEMENTS IN THE PARENTERAL NUTRITION AFTER ABDOMINAL SURGERY IN CHILDREN**
K. Masumoto, Department of Pediatric Surgery, Faculty of Medicine, University of Tsukuba, Tsukuba, Ibaraki, Japan
- PO2349 ROLE OF SUB-CLINICAL INFLAMMATION ON IRON SUPPLEMENTATION**
M K. Htet, South East Asian Ministers of Education Organization, Regional Center For Food and Nutrition, University of Indonesia, Indonesia
- PO2350 EFFECT OF ZINC ON IMMUNE FUNCTIONS IN PATIENTS WITH PULMONARY TUBERCULOSIS**
M. Guzman-Rivero, Biomedical Nutrition, Pure and Applied Biochemistry, Lund University, Lund, Sweden
- PO2351 FOOD DIVERSITY IN RELATION TO SCHOOLCHILDREN'S GROWTH IN MOROCCO**
Y. Aboussaleh, Nutrition and Heath Laboratory, Ibn Tofail University, Kenitra, Kenia, Morocco
- PO2352 NUTRITIONAL STATUS IN COLOMBIAN CHILDREN WITH LIVER ABSCESS**
C. Velasco, Universidad Del Valle, Cali, Colombia
- PO2353 NUTRITIONAL STATUS OF COLOMBIAN GIRLS CHILDREN WITH HELICOBACTER PYLORI GASTRITIS**
C. Velasco, Universidad Del Valle, Cali, Colombia
- PO2354 THE EFFECT OF AGE AND SEX DIFFERENCES ON MAGNESIUM ABSORPTION IN RATS**
M. Hanai, Department of Nutrition and Life Science, Kanagawa Institute of Technology, Atsugi, Kanagawa, Japan
- PO2355 THE DOUBLE BURDEN OF MALNUTRITION AMONG UNDERGRADUATE STUDENTS IN SOUTH WESTERN NIGERIA**
C. Badejo, Home Economics Unit, Department of Vocational and Technical Education, Tai Solarin University of Education, Ijebu-Ode, Ogun State, Nigeria
- PO2356 FACTORS AFFECTING THE NUTRITIONAL STATUS OF UNDER-FIVE CHILDREN IN IJEBU-ODE, OGUN STATE, NIGERIA**
R. Akano, Home Economics Unit, Department of Vocational and Technical Education, Tai Solarin University of Education, Ijebu-Ode, Ogun State, Nigeria
- PO2357 NATIONAL NUTRITION SURVEY IN THE STATE OF KUWAIT**
J. Al-Ghanim, Biotechnology Department, Kuwait Institute for Scientific Research, Safat, Kuwait
- PO2358 UNDERREPORTING OF ENERGY INTAKE FROM 24-HOUR DIETARY RECALL IN KOREAN NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY**
H. Moon, Department of Food and Nutrition, Dankook University, Yongin, Gyeonggi, Korea
- PO2359 ASSESSMENT OF THE DIETARY INTAKE OF WOMEN OF REPRODUCTIVE AGE IN THE GA EAST DISTRICT, ACCRA-GHANA**
M. Anim-Fofie, Department of Nutrition and Food Science, University of Ghana, Accra, Ghana
- PO2360 NEW TRENDS IN NUTRITIONAL STATUS ASSESSMENT IN A GROUP OF CHILDREN WITH CANCER FROM ROMANIA**
M. Chincesan, University of Medicine and Pharmacy Tg-Mures, Targu Mures, Romania
- PO2361 ANEMIA, IRON DEFICIENCY AND RELATIONSHIP WITH NUTRITIONAL STATUS IN CHILDREN AGED 2-5 YEARS OLD**
N. Dung, Department of Nutritional Biochemistry and Metabolism, National Institute of Nutrition, Hanoi, Vietnam

- PO2362 DIETARY INTAKE AND MAJOR FOOD SOURCES OF FOLATE OF ADULTS LIVING IN REPUBLIC OF KOREA**
Y N. Kim, Department of Food and Nutrition, Duksung Women's University, Seoul, Republic of Korea
- PO2363 A SYSTEMATIC REVIEW ON THE EFFECTS OF MULTI-MICRONUTRIENT FORTIFIED BEVERAGES ON NUTRITIONAL STATUS OF CHILDREN IN LOWER-INCOME COUNTRIES**
G J. Aaron, Global Alliance For Improved Nutrition (GAIN), PO Box 55, 1211 Geneva, Switzerland
- PO2364 CHINESE CHILD DIET QUALITY INDEX**
X. Zhou, Department of Nutrition and Food Hygiene, West China School of Public Health, Sichuan University, Chengdu, Sichuan, P.R. China
- PO2365 VERY YOUNG NIGERIAN INFANTS FIT INTO THE WHO CHILD GROWTH STANDARDS WELL, AS LONG AS THEY ARE HEALTHY**
I. Ezeofor, Paediatric Epidemiology and Community Health (PEACH) Unit, University of Glasgow/Royal Hospital for Sick Children, Yorkhill, Glasgow, UK
- PO2366 SCHOLASTIC ACHIEVEMENT LEVEL OF THE EDUCATIONAL ESTABLISHMENT AND ITS ASSOCIATION WITH POSTNATAL GROWTH AND DEVELOPMENT OF SCHOOL-AGE CHILDREN**
D. Ivanovic, Institute of Nutrition and Food Technology (INTA), University of Chile, Santiago, Chile
- PO2367 THE ANALYSIS OF IMBALANCES WITHIN LIPID COMPONENT OF STUDENTS' DIET**
A. Korolev, Department of Human Ecology and Environmental Hygiene, I.M. Sechenov First Moscow State Medical University, Moscow, Russia
- PO2368 CACO-2 CELL AND ANIMAL MODEL (GALLUS-GALLUS) STUDIES ARE EFFECTIVE AT SCREENING AND DEVELOPING STAPLE FOOD CROPS WITH IMPROVED FE-BIOAVAILABILITY**
E. Tako, USDA-ARS, Robert Holley Center For Agriculture and Health, Cornell University, New York, USA
- PO2369 MELATONIN TREATMENT ENHANCES PLASMA VANADIUM LEVELS IN YOUNG MALE ZUCKER DIABETIC FATTY (ZDF) RATS**
M. Navarro-Alarcon, Department of Nutrition and Food Science, University of Granada, Granada, Spain
- PO2370 PLASMA SELENIUM, ZINC AND COPPER LEVELS IN PATIENTS WITH INFLAMMATORY BOWEL DISEASE: RELATIONSHIP WITH DISEASE SEVERITY AND BIOCHEMICAL BIOMARKERS**
M. Navarro-Alarcon, Department of Nutrition and Food Science, University of Granada, Granada, Spain
- PO2371 OPTIMAL CUTOFFS OF BMI, PERCENTAGE BODY FAT, AND WAIST CIRCUMFERENCE FOR PREDICTING METABOLIC SYNDROME AMONG LEBANESE ADULTS**
N. Bachir, American University of Beirut, Beirut, Lebanon
- PO2372 BODY COMPOSITION AND FAT DISTRIBUTION IN RELATION TO BALANCED CALORIC DIET AND PHYSICAL ACTIVITY AMONG OBESE EGYPTIAN ADOLESCENT GIRLS**
N E. Hassan, Biological Anthropology Department, National Research Centre, Cairo, Egypt
- PO2373 VALIDATION OF FOOD FREQUENCY QUESTIONNAIRE FOR LOCAL SOY BASED PRODUCTS AND ISOFLAVONES INTAKES WITH THREE-DAY FOOD RECORD**
H. Haron, Nutrition Science Programme, School of Health Care, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia
- PO2374 COMPARISON OF THE IDEAL DIET IN JAPAN AND IN THE KINGDOM OF SAUDI ARABIA BASED UPON THE DRAWING METHOD**
M. Hasegawa, Kyorin University, Tokyo, Japan
- PO2375 ROTATION CRITERIA FOR EXPLORATORY FACTOR ANALYSIS: IMPLICATIONS FOR INTERPRETABILITY AND VALIDITY OF EMPIRICALLY DERIVED DIETARY PATTERNS**
M. Castro, Department of Nutrition, School of Public Health, University of São Paulo, São Paulo, Brazil
- PO2376 EVALUATION OF THE IMPACT OF VITAMIN A AND ZINC SUPPLEMENTATION ON MALARIAL MORBIDITY IN GHANA**
S. Newton, Kintampo Health Research Centre, Kintampo, Ghana
- PO2377 ASSESSMENT OF FOLATE STATUS USING BIOMARKERS AND NUTRIENT INTAKE DATA AMONG AUSTRIAN SCHOOL CHILDREN AGED 7—14 YEARS**
N. Weidl, Institute of Nutritional Sciences, University of Vienna, Vienna, Austria
- PO2378 ASSOCIATION BETWEEN CONSUMPTION OF FORTIFIED FIRST GRADE FLOUR AND IRON AND FOLATE STATUS OF WOMEN OF REPRODUCTIVE AGE IN UZBEKISTAN**
C. Northrop-Cleaves, Global Alliance for Improved Nutrition, Geneva, Switzerland
- PO2379 THE EFFECTS OF VITAMIN E ANALOGS AND METABOLITES ON RAT FATTY LIVER**
C. Muto, Department of Nutrition and Life Science, Kanagawa Institute of Technology, Kanagawa, Japan
- PO2380 LONG TERM FOLLOW-UP STUDY OF REFINED SUGAR CONSUMPTION FOR CHILDREN AGED 2 TO 5 YEARS IN TAIWAN**
L C. Lyu, Department of Human Development and Family Studies, National Taiwan Normal University, Taipei, Taiwan
- PO2381 EFFECTIVENESS OF COMMUNITY MALNUTRITION SCREENING FOR CHILDREN AGED 6 TO 59 MONTHS IN THE HEALTH DISTRICT OF DIAPAGA (BURKINA FASO)**
E W R. Compaore, Department of Biochemistry-Microbiology, CRSBAN, University of Ouagadougou, Ouagadougou, Burkina Faso
- PO2382 MICRONUTRIENT DEFICIENCIES AMONG OVERWEIGHT/OBESE VIETNAMESE WOMEN: AN ISSUE NOT TO UNDERESTIMATE**
A. Laillou, Global Alliance for Improved Nutrition, Geneva, Switzerland
- PO2383 ASSESSMENT OF A DEVICE TO QUANTIFY IRON CONTENT IN FISH AND SOY SAUCE – A TOOL FOR DAILY MONITORING**
A. Laillou, Global Alliance for Improved Nutrition, Geneva, Switzerland
- PO2384 HIGH PREVALENCE OF HYPOVITAMINOSIS D AND MILD HYPOCALCAEMIA CALCIUM AMONG YOUNG VIETNAMESE CHILDREN AND WOMEN**
A. Laillou, Global Alliance for Improved Nutrition, Geneva, Switzerland
- PO2385 A REVIEW OF VITAMIN D FORTIFICATION- IMPLICATIONS FOR NUTRITION PROGRAMMING IN SOUTH EAST ASIA**
Z. Yang, Nutrition and Food Safety, China Center for Disease Control, Xuanwu, Beijing, China
- PO2386 VITAMIN D DEFICIT AND METABOLIC SYNDROME**
I. Gonzalez-Molero, Endocrinology and Nutrition Service, Carlos Haya Hospital, Malaga, Spain
- PO2387 WEIGHT-FOR-AGE CHARTS AND Z-SCORES DEVELOPED FOR 10-15 YEAR OLD ADOLESCENTS IN NORTH-WEST PROVINCE SOUTH AFRICA**
W. Dube, Centre of Excellence for Nutrition, Potchefstroom Campus, Northwest University, South Africa
- PO2388 BODY IMAGE OF ADOLESCENTS AND ITS CORRELATION WITH BODY MASS INDEX**
H. Yardimci, Department of Nutrition and Dietetics, Ankara University, Ankara, Turkey
- PO2389 VITAMIN D DEFICIT AND DYSLIPIDEMIA**
I. Gonzalez-Molero, Endocrinology and Nutrition Service, Carlos Haya Hospital, Malaga, Spain

- PO2390 VITAMIN D AND OBESITY**
I. Gonzalez-Molero, Endocrinology and Nutrition Service, Carlos Haya Hospital, Malaga, Spain
- PO2391 VITAMIN D DEFICIENCY IN MORBID OBESITY BEFORE AND AFTER BARIATRIC SURGERY**
M. Gonzalo-Marin, Endocrinology and Nutrition Service, Carlos Haya Hospital, Malaga, Spain
- PO2392 ACHIEVING ADEQUATE VITAMIN D STATUS IN GUATEMALAN PRESCHOOL CHILDREN**
M. Bonorden, Research and Development, Hormel Foods Corporation, Austin, Minnesota, USA
- PO2393 QUALITY ASSURANCE OF IODISED SALT AT PRODUCTION END IN INDIA AND PARTNERSHIP OF PRIVATE, NGOS AND GOVERNMENT AGENCIES**
K. Yadav, All India Institute of Medical Sciences, New Delhi, India
- PO2394 SEASONAL DIFFERENCES OF VITAMIN D STATUS IN AUSTRIAN CHILDREN (7-14 YEARS)**
D. Wottawa, Department of Nutritional Science, University of Vienna, Vienna, Austria
- PO2395 DIETARY PATTERNS AND ANTHROPOMETRIC INDICES AMONG IRANIAN WOMEN WITH MAJOR DEPRESSIVE DISORDER**
Z. Kargernovin, Department of Community Nutrition, National Nutrition and Food Technology Research Institute, Faculty of Nutrition Sciences and Food Technology Shahid Beheshti University of Medical Sciences, Tehran, Iran
- PO2396 ASSOCIATION BETWEEN DIET AND CVD AND MORTALITY RISK IN FRANCE AND NORTHERN IRELAND: THE PRIME STUDY**
N. McCloskey, Centre of Public Health, Queen's University Belfast, Belfast, Northern Ireland
- PO2397 CHANGES IN BODY COMPOSITION IN RELATION TO THE STAGE OF DEMENTIA IN A GROUP OF INSTITUTIONALIZED ELDERLY**
M C. Martin, Area de Nutricion y Bromatologia, Departamento de pediatria, Facultad de Medicina, Universidad de Valladolid, Valladolid, España
- PO2399 TRENDS IN PERCENT CONTRIBUTION OF CARBOHYDRATES, PROTEINS AND FATS TO ENERGY INTAKES AND ITS ASSOCIATION WITH BODY MASS INDEX CATEGORIES**
B. Nagalla, Department of Bio-statistics, National Institute of Nutrition, Hyderabad, India
- PO2400 COMPILATION OF A PROVISIONAL TABLE ON COPPER AND MANGANESE CONTENT OF FOODS FOR USE IN EPIDEMIOLOGICAL STUDIES IN SPAIN**
A. Farran, Department of Nutrition and Food Sciences, Universitat de Barcelona, Barcelona, Spain
- PO2401 ON THE ACCUMULATION PROCESSES OF IRON, MAGNESIUM, MANGANESE AND ZINC DURING THE GROWTH OF HIJIKI PLANTS**
M. Katayama, Department of Health and Nutrition, Osaka Aoyama University, 2-11-1 Niina, Minoo, Osaka, Japan
- PO2402 SEGMENTAL BIOELECTRICAL IMPEDANCE ANALYSIS IN NORTHERN THAI SECONDARY SCHOOL-AGE STUDENTS (PCCCR)**
P. Leelahagul, Graduate Program in Nutrition, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
- PO2403 INSIGHT IN IODINE INTAKE IN THE NETHERLANDS: ESPECIALLY CHILDREN OF LOWER EDUCATED PARENTS AT RISK OF INADEQUATE IODINE INTAKES**
J. Verkaik-Kloosterman, National Institute for Public Health and The Environment (RIVM), Bilthoven, The Netherlands
- PO2404 FOOD CONSUMPTION SURVEY IN A GROUP OF ADULTS AT RISK OF POVERTY IN LITHUANIA: DAILY INTAKE OF ENERGY AND NUTRIENTS**
V. Hendrixson, Faculty of Medicine, Vilnius University, Vilnius, Lithuania
- PO2405 COULD LEAFY VEGETABLES BE USEFUL TO FIGHT AGAINST IRON DEFICIENCY IN SUB-SAHARAN AFRICA?**
C. Mouquet-Rivier, IRD UMR 204 Nutripass « Prevention des Malnutritions et des Pathologies associees, France
- PO2406 NUTRITIONAL ASSESSMENT OF UNIVERSITY STUDENTS OF UNIVERSITY OF MURCIA (LORCA, SPAIN)**
J A. Latorre, School of Health Science, Department of Food Technology, Nutrition and Food Science, University of Murcia, Lorca-Murcia, Spain
- PO2407 EVALUATION OF MEDITERRANEAN DIET QUALITY INDEX (KIDMED) IN STUDENTS OF UNIVERSITY OF MURCIA (LORCA) AND THEIR ADHERENCE TO MEDITERRANEAN DIET PATTERN**
P. Jimeno, School of Health Science, Department of Food Technology, Nutrition and Food Science, University of Murcia, Lorca-Murcia, Spain
- PO2408 CHANGES IN BODY COMPOSITION IN ONCOLOGY PATIENTS AFTER ABDOMINAL SURGERY**
E. Peklaj, Institute of Oncology Ljubljana, Clinical Nutrition Unit, Ljubljana, Slovenia
- PO2409 A RELIABLE METHOD OF EVALUATING NUTRITIONAL INTAKE OF MALE MINeworkERS RESIDING IN MINE ACCOMMODATION ON A PLATINUM MINE (SOUTH AFRICA)**
M. Marais, Division of Human Nutrition, Stellenbosch University, Tygerberg, Western Cape, South Africa
- PO2411 A SCREENING TOOL FOR EARLY DETECTION OF MALNUTRITION IN INDIVIDUALS WITH INTELLECTUAL DISABILITY IN A PSYCHIATRIC HOSPITAL (SOUTH AFRICA)**
M. Marais, Division of Human Nutrition, Stellenbosch University, Tygerberg, Western Cape, South Africa
- PO2412 ABSENCE OF GEOGRAPHIC-SETTING CONTRASTS IN BODY COMPOSITION ACROSS STUNTED AND LOW-STATUE GUATEMALAN PRESCHOOLERS OFFERED COMMON DIETARY FARE**
M J. Soto-Mendez, Center for Studies of Sensory Impairment, Aging and Metabolism -CESSIAM-, Guatemala
- PO2413 THE INFLUENCE OF VITAMIN A STATUS ON IRON-DEFICIENCY ANAEMIA IN ANAEMIC ADOLESCENT SCHOOLGIRLS IN MYANMAR**
M K. Htet, South East Asian Ministers of Education Organization, Regional Center for Food and Nutrition, University of Indonesia, Indonesia
- PO2414 INTRODUCING INFANT AND YOUNG CHILD FEEDING INDICATORS INTO NATIONAL NUTRITION SURVEILLANCE SYSTEMS- LESSONS FROM VIETNAM**
N. Hajeebhoy, FHI 360, Hanoi, Vietnam
- PO2415 INTERACTION OF PARASITE PREVALENCE AND LINEAR GROWTH IN PRESCHOOL CHILDREN ATTENDING DAY-CARE CENTERS IN THE WESTERN HIGHLANDS OF GUATEMALA?**
J. Alvey, Center For Studies of Sensory Impairment, Aging and Metabolism -CESSIAM-, Guatemala
- PO2416 ASSOCIATION OF A POTENTIAL BIOMARKER OF INTESTINAL GIARDIAL-INFESTATION INTENSITY AND GROWTH AMONG INFECTED PRESCHOOLERS IN THE WESTERN HIGHLANDS OF GUATEMALA**
J. Alvey, Center For Studies of Sensory Impairment, Aging and Metabolism -CESSIAM-, Guatemala
- PO2417 RELATIONSHIP OF RBC MEMBRANE OMEGA-3 AND OMEGA-6 FATTY ACIDS TO INFLAMMATORY BIOMARKERS IN A GUATEMALAN POPULATION ON THE PACIFIC COAST**
R. Campos, Center For Studies of Sensory Impairment, Aging and Metabolism -CESSIAM-, Guatemala

- PO2418 PROTEIN-ENERGY AND MINERAL NUTRITIONAL STATUS OF SOLDIERS SERVING IN THE CAVALRY SQUADRON OF THE POLISH ARMED FORCES REPRESENTATIVE BATTALION**
J. Bertrandt, Military Institute of Hygiene and Epidemiology, Warsaw, Poland
- PO2419 CAN MOBILE PHONES BE USED TO ROUTINELY MONITOR NUTRITION INDICATORS? EXPERIENCE FROM LIBERIA**
A. Guyon, Research & Training Inc., Arlington, USA
- PO2420 INFLUENCE OF DIET AND BLOOD LOSS ON THE IRON STATUS OF AUSTRALIAN PREMENOPAUSAL WOMEN**
K. Lim, Centre for Physical Activity and Nutrition Research, School of Exercise and Nutrition Sciences, Deakin University, Burwood, Victoria, Australia
- PO2421 ROLE OF NUTRITIONISTS/DIETITIANS FOR SELF-CARE TO PREVENTION OF CHRONIC DISEASES**
S. Nopchinda, Research Center, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
- PO2422 IODINE DEFICIENCY DISORDER AND IODIZED SALT CONSUMPTION IN THE PHILIPPINES**
L. Perlas, Food and Nutrition Research Institute, Bicutan, Taguig City, Philippines
- PO2423 FACTORS ASSOCIATED WITH DETERIORATION OF MINI NUTRITIONAL ASSESSMENT-SHORT FORM STATUS OF NURSING HOME RESIDENTS DURING A 2-YEAR PERIOD**
S. Izawa, Department of Health and Nutrition, Faculty of Psychological and Physical Science, Aichi Gakuin University, Nisshin, Aichi, Japan
- PO2424 CORRELATION BETWEEN MACRONUTRIENT INTAKES BASED ON FOOD FREQUENCY QUESTIONNAIRES AND 24-HOUR RECALLS: RESULTS FROM A BREAST CANCER SURVIVORS INTERVENTION STUDY**
A. Agudo, Catalan Institute Of Oncology (ICO-IDIBELL), Barcelona, Spain
- PO2425 GROWTH MONITORING AND PROMOTION PRACTICES IN PRIMARY HEALTH CARE FACILITIES IN THE WESTERN CAPE PROVINCE, SOUTH AFRICA**
R. Blaauw, Division of Human Nutrition, Faculty of Medicine and Health Sciences, Stellenbosch University, Cape Town, South Africa
- PO2426 INNOVATION ON DEVELOPMENT, RELIABILITY AND VALIDITY TEST OF DIGITAL INFANT LENGTH MEASURER WITH SONAR SENSOR PRECISION**
A. Syafiq, Department of Nutrition, Faculty of Public Health, University of Indonesia, Indonesia
- PO2427 GLUTEN INTAKE IN SPANISH INFANTS AS ASSESSED BY SPECIFIC DEVELOPED FOOD FREQUENCY QUESTIONNAIRES**
P. Crespo, Pediatric Gastroenterology unit, La Fe University Hospital, Valencia, Spain
- PO2428 IS THE BMI A GOOD PREDICTOR OF ADIPOSITY IN HEALTHY PEOPLE?**
S. De La Cruz, Department of Nutrition and Bromatology, Faculty of Medicine, University of Valladolid, Valladolid, Spain
- PO2429 IMPLICATION OF THE APICAL SODIUM-DEPENDENT BILE ACID TRANSPORTER IN THE UPTAKE OF FAT-SOLUBLE VITAMINS**
A. Goncalves, NORT, UMR 1062 INSERM / 1260 INRA / Université d'Aix-Marseille, Marseille, France
- PO2430 IMPACT OF NUTRITION EDUCATION PROGRAMME ON NUTRITIONAL STATUS OF CHILDREN AGED 3 TO 5 YEARS IN OF LIMPOPO PROVINCE**
L. Mushaphi, Department of Nutrition, University of Venda, South Africa
- PO2431 PREVENTING ACUTE MALNUTRITION THROUGH VOLUNTEERS COMMUNITY HEALTH WORKER IN CONAKRY, GUINEA 2008-2011**
M. Sanchez, Accion Contra El Hambre, Madrid, Spain
- PO2432 IODINE INTAKE IN SCHOOLCHILDREN IN POLAND**
K. Stos, Department of Food and Food Supplements, National Food and Nutrition Institute, Warsaw, Poland
- PO2433 SEVENTH NATIONAL NUTRITION SURVEY, PHILIPPINES 2008: ZINC STATUS OF FILIPINOS BY SERUM ZINC LEVEL**
J. Marcos, Department of Science and Technology, Food and Nutrition Research Institute, Taguig City, Philippines
- PO2434 IRON BIOAVAILABILITY FROM NUTRITION ENTERAL THERAPY MEASURED IN ADULTS THROUGH SERUM IRON LEVELS**
J. E. Dutra-De-Oliveira, Medical School of Ribeirão Preto, Department of Medicine, University São Paulo, São Paulo, Brazil
- PO2435 IMPACT OF BODY COMPOSITION METHODOLOGY ON THE COMPOSITION OF WEIGHT LOSS AND WEIGHT GAIN**
M. Pourhassan, Institute of Human Nutrition and Food Science, Christian-Albrechts University, Schleswig-Holstein, Kiel, Germany
- PO2436 EFFECT OF THERMAL PROCESSING ON FAT SOLUBLE VITAMIN CONTENTS IN BLACK SEA SHAD (ALOSA PONTICA)**
M. Stancheva, Medical University of Varna, Varna, Bulgaria
- PO2437 FATTY ACID COMPOSITION OF BLACK SEA SHAD (ALOSA PONTICA) UNDER DIFFERENT COOKING PROCESSES**
M. Stancheva, Medical University of Varna, Varna, Bulgaria
- PO2438 EVALUATION OF HACETTEPE UNIVERSITY DEPARTMENT OF NUTRITION AND DIETETIC FEMALE STUDENTS' EATING ATTITUDES AND HEALTHY LIFESTYLE BEHAVIORS**
A. Cakmak, Hacettepe University, Health Science Faculty, Nutrition and Dietetics Department, Ankara, Turkey
- PO2439 NUTRITION SITUATION IN THE OCCUPIED PALESTINIAN TERRITORY: REVIEW AND NUTRITION ASSESSMENT**
E. Rivero, Accion Contra El Hambre, Madrid, Spain
- PO2440 FOLATE STATUS OF FILIPINO WOMEN OF CHILDBEARING AGE**
J. Desnaco, Food and Nutrition Research Institute, Taguig City, Philippines
- PO2441 COMPARISON OF THE DESCRIPTION LEVEL OF FOOD CONSUMPTION DATA COLLECTED FROM 24-HOUR DIETARY RECALLS AND A 7-DAY FOOD RECORD**
S. Havard, Dietary Survey Unit, French Agency for food, Environmental and Occupational Health Safety (ANSES), Maisons-Alfort, France
- PO2442 EFFICACY OF FERROUS GLUCONATE AND FERROUS BISGLYCINATE CHELATE AS FORTIFICANTS IN MAIZE-BASED COMPLEMENTARY FOOD ON IRON STATUS IN CHILDREN 24-59 MONTHS**
O. Sinisterra, Department of Nutrition, Direction of Provision of Services of Health, Ministry of Health, Panama
- PO2443 MICRONUTRIENT STATUS AND INTAKE IN OMNIVORES, VEGETARIANS AND VEGANS IN SWITZERLAND**
I. Aeberli, Human Nutrition Laboratory, ETH Zurich, Zurich, Switzerland
- PO2444 THE USUAL DIET IS CAPABLE OF MAINTAINING THE APPROPRIATE LEVEL OF VITAMINS IN THE NORTH AMERICAN POPULATION?**
R. Lima, Nutrition department, Universidade of Sao Paulo, Sao Paulo, Brasil
- PO2445 VITAMIN D STATUS AMONG FAMILIES IN DENMARK: BASELINE DATA FROM THE VITMAD STUDY**
K. H. Madsen, Division of Nutrition, National Food Institute, Technical University of Denmark, Kongens Lyngby, Denmark
- PO2446 GROWTH ATTAINMENT AND HEMATOLOGICAL STATUS OF LOW-INCOME PRESCHOOL CHILDREN OF METROPOLITAN GUATEMALA CITY**
J. Casimiro de Almeida, Hildegard Grunow Foundation, Munich, Germany

- PO2447 DEVELOPMENT AND COMPARISON OF AN ONLINE DIETARY ASSESSMENT TOOL FOR USE IN THE FOOD4ME STUDY**
H. Forster, Institute of Food and Health, University College Dublin, Ireland
- PO2448 STUNTING AND WASTING ASSOCIATED WITH MICRONUTRIENT DEFICIENCIES IN NORTHERN ETHIOPIA**
L. Fernandez-de Armas, Escuela Nacional de Sanidad, Instituto de Salud Carlos III, Madrid, Spain
- PO2449 IMPACT OF DIFFERENT SUGARY BEVERAGES ON THIRST**
P. Carvalho, Faculdade de Ciências da Nutrição e Alimentação, Universidade do Porto, Porto, Portugal
- PO2450 IMPACT OF MORNING INGESTION OF SUGARY AND SWEETENED BEVERAGES ON ENERGY AND FLUID INTAKE THROUGHOUT DAY**
P. Carvalho, Faculdade de Ciências da Nutrição e Alimentação, Universidade do Porto, Porto, Portugal
- PO2451 IRON-BIOFORTIFIED PEARL MILLET PROVIDES ADDITIONAL BIOAVAILABLE IRON COMPARED TO REGULAR-IRON MILLET BUT TO A LESSER EXTENT THAN POST-HARVEST IRON-FORTIFIED MILLET**
R. Hurrell, Laboratory of Human Nutrition, ETH Zurich, Zurich, Switzerland
- PO2452 MICRONUTRIENTS AND PREGNANCY; EFFECT OF SUPPLEMENTATION ON PREGNANCY AND PREGNANCY OUTCOMES: A SYSTEMATIC REVIEW**
T. Alemu, Dilla University, Dilla, Ethiopia
- PO2453 REVIEW OF THE STATE OF MICRONUTRIENT FORTIFICATION OF WEANING FOODS IN GHANA AND THE WAY FORWARD**
R. Pobee, CSIR-Food Research Institute, Accra, Ghana
- PO2454 ANTIOXIDANT ACTIVITIES OF DIFFERENT FRUITS CULTIVATED AND MARKETING IN ANDALUCIA**
C. Rodriguez-Perez, Department of Analytical Chemistry, Faculty of Sciences, University of Granada, Granada, Spain
- PO2455 WATER FROM FLUIDS IS THE MAIN DRIVER OF TOTAL WATER INTAKE IN HEALTHY FRENCH ADULTS**
E. Perrier, Danone Research, Palaiseau, France
- PO2456 VALIDATION OF A FOOD FREQUENCY AND PHYSICAL ACTIVITY QUESTIONNAIRE IN KILIMANJARO REGION, TANZANIA**
A. Fongar, Institute of International Nutrition, Justus-Liebig-University Giessen, Hesse, Germany
- PO2457 BODY COMPOSITION IN RELATION TO MICRONUTRIENT STATUS IN CAMBODIAN INFANTS: THE WINFOOD PROJECT**
C. Chamnan, Dept of Fisheries Post-harvest Technologies and Quality Control (DFPTQ), Fisheries Administration, Ministry of Agriculture Forestry and Fisheries, Phnom Penh, Cambodia
- PO2458 NUTRITIONAL STATUS IN CHILDREN WITH SICKLE CELL DISEASE**
P. Mataratzis, Institute of Nutrition, State University of Rio de Janeiro, Rio de Janeiro, Brazil
- PO2459 NUTRITIONAL STATUS AND DIETARY INTAKE IN CHILDREN WITH SICKLE CELL DISEASE**
P. Mataratzis, Institute of Nutrition, State University of Rio de Janeiro, Rio de Janeiro, Brazil
- PO2460 NUTRITIONAL STATUS AND BODY COMPOSITION OF UGANDAN WOMEN LIVING WITH HIV/AIDS**
H. Namusoke, Mwanamugimu Nutrition Unit, National Referral, Mulago Hospital, Kampala, Uganda
- PO2461 PLASMA SOLUBLE TRANSFERRIN RECEPTOR CONCENTRATION IS ASSOCIATED WITH ABSOLUTE RETICULOCYTE COUNTS, INFLAMMATION, AND MALARIA INFECTION IN URBAN CAMEROONIAN CHILDREN**
R. Engle-Stone, Program in International and Community Nutrition, University of California, Davis, CA, USA
- PO2462 APPARENT OBESITY AT A LOWER BODY MASS INDEX IN BANGLADESHI WOMEN**
S. Shaikh, Jivita Project, Gaibandha, Bangladesh
- PO2463 ADEQUACY TO FIBER INTAKE ACCORDING TO BODY MASS INDEX IN ADULT POPULATION OF ROSARIO (ARGENTINA)**
M E. Zapata, Licenciatura en Nutricion, Facultad de Quimica, Universidad del Centro Educativo Latinoamericano, Rosario, Santa Fe, Argentina
- PO2464 MICRONUTRIENT STATUS IN DIABETIC RETINOPATHY**
G B. Reddy, National Institute of Nutrition, Hyderabad, India
- PO2465 EFFECT OF IRON FORTIFIED COWPEA FLOUR ON IRON STATUS STATUS OF SCHOOL CHILDREN IN NORTHERN GHANA**
A R. Abizari, University For Development Studies, School of Medicine and Health Sciences, Tamale, Ghana
- PO2466 SUB-CLINICAL INFLAMMATION AND EFFECT OF IRON SUPPLEMENTATION IN UNDER-TWO-YEAR-OLD INDONESIAN CHILDREN**
U. Fahmida, SEAMEO-RECFON, Regional Center for Food and Nutrition, University of Indonesia
- PO2467 A PROSPECTIVE STUDY OF NUTRITIONAL STATUS OF PATIENTS WITH CHRONIC MALNUTRITION UNDER DIETARY TREATMENT**
R. Popova, Medical University, University Hospital 'Queen Giovanna - ISUL' Clinic of Metabolic Diseases and Dietetics, Sofia, Bulgaria
- PO2468 FOOD LIMITS THE RESPONSE OF CIRCULATING NON-TRANSFERRIN-BOUND IRON (NTBI) TO ORAL IRON SUPPLEMENTATION IN YOUNG CHILDREN**
M. Orozco, Center for the Studies of Sensory Impairment, Aging and Metabolism (CESSIAM), Guatemala
- PO2469 VALIDATING ESTIMATES OF TRADITIONAL FOOD INTAKE IN THE CREE AND INUIT POPULATIONS OF NORTHERN CANADA**
L. Johnson-Down, Centre For Indigenous Peoples' Nutrition and Environment, School of Dietetics and Human Nutrition, McGill University, Montreal, Quebec, Canada
- PO2470 RECEIVER OPERATING CHARACTERISTIC CURVE ANALYSIS OF ANTHROPOMETRIC MEASUREMENTS VERSES BODY FAT ASSESSED BY AIR DISPLACEMENT PLETHYSMOGRAPHY IN INDIAN WOMEN**
D S. Varghese, Department of Work Physiology and Sports Nutrition, National Institute of Nutrition (ICMR), Hyderabad, Andhra Pradesh, India
- PO2471 PROVITAMIN-A-CAROTENOLACTONE AND RETINOL ACTIVITY EQUIVALENTS: APPARENT BIOAVAILABILITY OF ALPHA-CAROTENE AND BETA-CRYTOXANTHIN IS GREATER THAN THAT OF BETA-CAROTENE IN SPANISH SUBJECTS**
B. Olmedilla-Alonso, Department of Metabolism and Nutrition, Institute of Food Science and Technology, Spanish National Research Council (ICTAN-CSIC), Madrid, Spain
- PO2472 BODY FAT DISTRIBUTION OF CHILDREN AND ADOLESCENTS IN ABEOKUTA, SOUTHWEST NIGERIA**
I. Senbanjo, Department of Paediatrics and Child Health, Lagos State University College of Medicine, Ikeja, Lagos State, Nigeria
- PO2473 COEXISTENCE OF STUNTING AND THE RISK OF OVERWEIGHT/OBESITY AMONG PRESCHOOL CHILDREN ATTENDING A PERI-URBAN DAYCARE CENTER IN METROPOLITAN GUATEMALA CITY?**
S. Salguero, Center for Studies of Sensory Impairment, Aging and Metabolism (CeSSIAM), Guatemala
- PO2474 PSYCHOSOCIAL FACTORS ASSOCIATED WITH LOW ENERGY REPORTING IN MALE AND FEMALE MALAYSIAN UNIVERSITY STUDENTS**
W Y. Gan, Department of Nutrition and Dietetics, Universiti Putra Malaysia, Serdang, Selangor, Malaysia

- PO2475 DIETARY PATTERNS IN AN ADULT POPULATION FROM ARGENTINA**
N. Elorriaga, Institute for Clinical Effectiveness and Health Policy IECS, Argentina
- PO2476 ASSESSMENT OF DIFFERENTIAL ITEM FUNCTIONING IN THE HOUSEHOLD FOOD SECURITY SCALE MODULE WITHIN A DISADVANTAGED AUSTRALIAN POPULATION**
R. Ramsey, Queensland University of Technology, Brisbane, Australia
- PO2477 ASSESSMENT OF HOUSEHOLD FOOD SECURITY: DESIGN OF A STANDARDIZED APPROACH AT THE WORLD FOOD PROGRAMME**
D. Rose, Department of Global Community Health, Tulane University, New Orleans, USA
- PO2478 DEVELOPMENT AND VALIDATION OF AN INFANT COMPLEMENTARY FEEDING INDEX**
R. Jayatissa, Department of Nutrition, Medical Research Institute, Colombo, Sri Lanka
- PO2479 GROWTH AND DEVELOPMENT OF CHILEAN ADOLESCENTS BELONGING TO A COHORT OF CHILDREN BORN PRETERM**
M A. Gonzalez, Departamento de Nutricion y Salud Publica, Facultad Ciencias de la Salud y de los Alimentos, Universidad Del Bio-Bio, Biobio, Chile
- PO2480 TOLEDO AREA STUDY: ASSESSMENT OF GLYCEMIC INDEX IN ADOLESCENTS AND THEIR PARENTS**
J M. Martinez-Sesmero, Pharmacy Department, Virgen de la Salud Hospital, Toledo, Spain
- PO2481 VITAMIN B12 INTAKE AND STATUS IN CROATIAN CELIAC PATIENTS ON A GLUTEN-FREE DIET**
M. Bituh, Department of Food Quality Control and Nutrition, Faculty of Food Technology and Biotechnology, University of Zagreb, Zagreb, Croatia
- PO2482 NUTRITIONAL AND SAFETY EVALUATION OF LEGUME-BASED COMPLEMENTARY FOODS CONSUMED BY YOUNG CHILDREN IN NORTH WOLLO, ETHIOPIA: A DIFFICULT COMPROMISE**
K. Baye, Center for Food Science and Nutrition, Addis Ababa University, Addis Ababa, Ethiopia
- PO2483 IMPACT EVALUATION USING CHILD ANTHROPOMETRY: TECHNICAL ERROR OF MEASUREMENT MATTERS**
E. Becquey, Helen Keller International, New York, NY, USA
- PO2484 NEW DOMESTIC PROCESSING METHODS: EFFECT ON POTATO NUTRITIONAL COMPOSITION**
C S P. Santos, REQUIMTE, Faculty of Pharmacy, Oporto University, Porto, Portugal
- PO2485 SODIUM AND POTASSIUM STATUS IN AUSTRIAN CHILDREN: IS THERE A CORRELATION BETWEEN THESE PARAMETERS?**
T. Kuen, Department of Nutritional Sciences, University of Vienna, Vienna, Austria
- PO2486 FOOD GROUP INTAKE AMONG HEALTH-CARE PROFESSIONALS, UNIVERSITY OF ANTIOQUIA, COLOMBIA**
J M. Monsalve-Alvarez, School of Nutrition and Dietetics, University of Antioquia, Medellin, Colombia
- PO2487 HIGH SODIUM AND LOW POTASSIUM INTAKE AMONG YOUNG URBAN WOMEN IN SRI LANKA: NEED FOR EDUCATIONAL INTERVENTION**
T. Anirtha, Department of Biochemistry and Molecular Biology, Faculty of Medicine, University of Colombo, Colombo, Sri Lanka
- PO2488 THE CORRECTION OF UNDERESTIMATION OF ENERGY INTAKE BY USING NEURAL NETWORKS**
J W. Szczepanska, Department of Human Nutrition, University of Warmia and Mazury, Olsztyn, Poland
- PO2489 GROWTH AND BODY COMPOSITION FROM BIRTH TO 6 MONTHS IN INFANTS BORN TO PREGNANT MOTHERS AT RISK OF GESTATIONAL DIABETES**
N. Kizirian, Human Nutrition Unit, The University of Sydney, Sydney, NSW, Australia
- PO2490 COMPARISON OF FORMULAS FOR ESTIMATING WEIGHT AND HEIGHT WITH ANTHROPOMETRIC REAL MEASURES OF ADULTS AND ELDERLY**
C. Freiberg, Centro Universitario São Camilo, Paraiso, Cachoeiro de Itapemirim, Sao Paulo, Brazil
- PO2491 MONITORING THE NUTRITIONAL COMPOSITION OF PROCESSED FOODS: THE ARGENTINEAN EXPERIENCE**
L. Allemandi, Fundacion InterAmericana del Corazon-Argentina, Buenos Aires, Argentina
- PO2492 LOW WEIGHT FOR AGE ACCORDING TO WHO IN PRETERM NEONATES FROM A HIGH RISK MONITORING PROGRAM "KANGAROO" FROM HOSPITAL UNIVERSITARIO DEL VALLE IN CALI, COLOMBIA**
L M. Valencia, Universidad Del Valle, Cali, Colombia
- PO2493 PREVALENCE OF SARCOPENIA IN YOUNG ADULTS FROM TABASCO MEXICO**
A E. Sierra-Ovando, Centro de Investigacion de la Division Academica de Ciencias de la Salud Universidad Juarez Autonoma Dde Tabasco, Villahermosa Tabasco, Mexico
- PO2494 RELATIONSHIP BETWEEN SALTY TASTE ACUITY AND ZINC NUTRITIONAL SATISFACTION IN KOREAN YOUNG ADULTS**
H. Noh, Department of Food and Nutrition, College of Human Ecology, Seoul National University, Seoul, Korea
- PO2495 ANEMIA AND MICRONUTRIENT STATUS AFTER MICRONUTRIENT POWDER SUPPLEMENTATION AMONG MALNOURISHED AND WELL-NOURISHED CHILDREN IN AN URBAN SLUM OF DHAKA**
M. Mahfuz, Centre for Nutrition and Food Security, icddr, 68, Shaheed Tajuddin Ahmed Sarani, Mohakhali, Dhaka, Bangladesh
- PO2496 DEVELOPMENT OF DATA COLLECTION TOOLS TO BE USED DURING FOOD INTAKE STUDIES IN ILLITERATE, LOW-INCOME COMMUNITIES**
H. Schonfeldt, Institute of Food, Nutrition & Well-being, University of Pretoria, Pretoria, South Africa
- PO2497 A NUTRIENT PERSPECTIVE ON CLIMATE CHANGE AND SUSTAINABLE RED MEAT PRODUCTION AND CONSUMPTION**
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- PO2498 RELATIONS BETWEEN NUTRITION FOR GAME PERFORMANCE IMPROVEMENT AND AROMA FOR FATIGUE REDUCTION DURING SPORTS**
K. Kanbe, Department of Food and Nutrition, Junior College, Nihon University, Japan
- PO2499 ISSUES IN CHARACTERIZING RESTING ENERGY EXPENDITURE IN OBESITY AND AFTER WEIGHT LOSS**
A. Bosy-Westphal, Institut für Ernährungsmedizin, University Hohenheim, Stuttgart, Germany
- PO2500 BODY COMPOSITION CHANGES AFTER 12 MONTHS OF MULTIAPPROACH INTERVENTION IN SPANISH OVERWEIGHT AND OBESE ADOLESCENTS: THE EVASYON STUDY**
P. De Miguel-Etayo, GENUUD "Growth, Exercise, Nutrition and Development" Research Group, University of Zaragoza, Zaragoza, Spain
- PO2501 ELECTRIC BIOIMPEDANCE VERSUS FLUID BALANCE METHOD FOR HYDRATION STATUS EVALUATION IN HOSPITALIZED ELDERLY PATIENTS**
T K. Weber, Clinical Nutrition Department, University Hospital La Paz, La Paz Institute For Health Research (IdiPAZ), Madrid, Spain
- PO2502 PREVALENCE OF MICRONUTRIENT DEFICIENCIES AND ANTHROPOMETRIC STATUS OF WOMEN AND PRESCHOOL CHILDREN IN RURAL BURKINA FASO**
L. Nikiema, Institut de Recherche en Sciences de la Sante (IRSS), Ouagadougou, Burkina Faso

- PO2503 VITAMIN A, IRON AND ZINC CONTENT OF COMMERCIAL MAIZE MEAL AND BREAD SAMPLED AT HOUSEHOLD LEVEL IN SOUTH AFRICA**
P. Van Jaarsveld, Nutritional Intervention Research Unit, Medical Research Council of South Africa, Cape Town, South Africa
- PO2504 NUTRITIONAL INTEREST OF NA, K, CA, MG, FE, MN, CU, ZN, CR AND MO LEVELS IN DARK BEERS**
C. Rubio, Toxicology Department, University of La Laguna, La Laguna, Santa Cruz de Tenerife, Spain
- PO2505 ESSENTIAL METALS AND TRACE ELEMENTS IN YOGURTS. NUTRITIONAL EVALUATION**
C. Rubio, Toxicology Department, Faculty of Medicine, University of La Laguna, La Laguna, Santa Cruz de Tenerife, Spain
- PO2506 COMPARISON OF EQUATIONS TO PREDICT BODY WEIGHT AMONG ADULTS IN A TERTIARY HOSPITAL**
E. Rabito, Department of Nutrition, Universidade Federal de Ciências da Saúde de Porto Alegre, Porto Alegre, Brazil
- PO2507 MICRONUTRIENTS ADEQUACY AND FOOD PATTERN OF INDONESIAN YOUNG CHILDREN**
H. Hardinsyah, Food and Nutrition Society of Indonesia, and Department of Community Nutrition, Bogor Agricultural University, Kampus IPB, Jl Raya Darmaga, Bogor, Indonesia
- PO2508 CORRELATION BETWEEN 24-HOUR AND SPOT/VOID URINE SAMPLES FOR THE PURPOSE OF POPULATION SALT INTAKE ASSESSMENT**
P. Jeffery, Deakin University, Melbourne, Australia
- PO2509 TIME SINCE VITAMIN A SUPPLEMENTATION (VAS), POLIO VACCINE DISTRIBUTION AND OTHER FACTORS AFFECT THE VALIDITY OF VAS POST-EVENT COVERAGE ASSESSMENT**
C T. Ouedraogo, Direction Regionale de l'Ouest, Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso
- PO2510 VALIDITY AND RELIABILITY OF BIOELECTRICAL IMPEDANCE ANALYSIS TO ESTIMATE BODY FAT COMPARED TO AIR DISPLACEMENT PLETHYSMOGRAPHY AND DUAL-ENERGY X-RAY ABSORPTIOMETRY**
C. Conlon, Institute of Food, Nutrition and Human Health, Massey University, Auckland, New Zealand
- PO2511 NUTRITIONAL STATUS AND DIETARY INTAKE IN CHILDREN WITH SICKLE CELL DISEASE**
P. Mataratzis, Institute of Nutrition, State University of Rio de Janeiro, Rio de Janeiro, Brazil
- PO2512 OSMOLALITY OF 50 BEVERAGES THAT ARE COMMERCIALY AVAILABLE IN SAN FRANCISCO**
J. Stookey, Children's Hospital Oakland Research Institute, Oakland, USA
- PO2513 HOSPITAL MALNUTRITION, PREVALENCE AND ECONOMIC IMPACT**
G. Lobo Tamer, Hospital Universitario Virgen de las Nieves, Granada, Spain
- PO2514 DIETARY DIVERSITY IS A GOOD INDICATOR OF MICRONUTRIENT INTAKE AMONG KENYAN WOMEN IRRESPECTIVE OF SEASON**
S. Ngala, Division of Human Nutrition, Wageningen University, Wageningen, The Netherlands
- PO2515 VITAMIN K2 ALTERS BONE METABOLISM MARKERS IN HIGH FAT DIET-INDUCED OBESE MICE**
C. Sohn, Department of Food & Nutrition/Wonkwang University, Iksan, Republic of Korea
- PO2516 MEASUREMENT OF ENERGY REQUIREMENT BY HEART RATE METHOD AND PWC170 FOR YOUNG ACTIVE AND SEDENTARY WOMEN**
M. Chopra, Lady Irwin College, Delhi University, Delhi, India
- PO2517 PERCEPTION OF CURRENT BODY SIZE OF RESTAURANT'S WORKERS IN RIO DE JANEIRO: BRAZIL**
T W G. Guedes, Department of Applied Nutrition, State University of Rio de Janeiro, Rio de Janeiro, Brazil
- PO2518 DEVELOPMENT AND VALIDATION OF A COMPUTER-NUTRITION CALCULATION (CNC) PROGRAM BASED ON KOREAN FOOD BALANCE PAGODA**
S H. Lee, Center for Health Promotion, Samsung Medical Center, Seoul, Republic of Korea
- PO2519 NUTRITIONAL ASSESSMENT BY ANTHROPOMETRY, FROM THE USERS OF THE "BOM PRATO" PROJECT**
A. Murakami, Centro Universitario São Camilo, Ipiranga, São Paulo, Brazil
- PO2520 THE ASSOCIATIONS BETWEEN MEAL FREQUENCY AND BODY COMPOSITION IN ADULTS**
M. Bas, Baskent University, Faculty of Health Science, Department of Nutrition and Dietetics, Ankara, Turkey
- PO2521 BRAZILIAN FOOD COMPOSITION DATABASE (TBCA-USP): UPDATE ON VITAMIN DATA**
E. Wenzel de Menezes, Food and Nutrition Research Center/University of São Paulo (NAPAN/USP); FoRC/CEPID/FAPESP and Department of Food and Experimental Nutrition, Faculty of Pharmaceutical Sciences, USP, São Paulo, Brazil
- PO2522 USE OF PREDEFINED DIET QUALITY SCORES IN THE CONTEXT OF CARDIOVASCULAR DISEASE RISK DURING URBANISATION IN THE SOUTH AFRICAN PURE STUDY**
R. Dolman, Centre of Excellence for Nutrition, North West University, Potchefstroom, South Africa
- PO2523 DELAYED GROWTH IN COLOMBIAN SCHOOL CHILDREN WITH FUNCTIONAL GASTROINTESTINAL DISORDERS**
L. Valencia, Universidad del Valle, Cali, Colombia
- PO2524 FIBER INTAKE IN COLOMBIAN SCHOOL CHILDREN WITH FUNCTIONAL GASTROINTESTINAL DISORDERS**
C. Alvarez, Grupo de Investigación GASTROHNUP, Universidad del Valle, Cali, Colombia
- PO2525 NUTRITIONAL SURVEY IN COLOMBIAN SCHOOL CHILDREN WITH FUNCTIONAL GASTROINTESTINAL DISORDERS**
C. Alvarez, Grupo de Investigación GASTROHNUP, Universidad del Valle, Cali, Colombia
- PO2526 THE EFFECT OF BREEDING AND RETAIL PRACTICES ON THE NUTRIENT PROFILE OF BEEF**
N. Hall, Institute of Food, Nutrition and Well-being, University of Pretoria, Pretoria, South Africa
- PO2527 NUTRITIONAL ADEQUACY OF MINERAL CONTENTS OF ORAL DIETS FOR RENAL PATIENTS PREPARED IN A HOSPITAL OF BELO HORIZONTE, MG, BRAZIL**
K. Diego Quintaes, Ouro Preto Federal University, Nutrition School, MG, Brazil
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T. Al-Ati, Kuwait Institute for Scientific Research, Safat, Kuwait
- PO2529 EVALUATION OF DIET QUALITY WITH CHINA DIET BALANCE INDEX AMONG RESIDENTS IN JIANGSU, CHINA**
S. Zhen, Department of Nutrition, Jiangsu Center For Disease Prevention and Control, Jiangsu, China
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L. Lu, Department of Nutrition and Food Safety, Xicheng District Centre For Disease Prevention and Control, Beijing, China
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S. Zou, Department of Nutrition Hygiene, Shanghai Municipal Center for Disease Control and Prevention, Shanghai, China
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Y. Song, Institute of Health Surveillance, Analysis and Protection, Hubei Center for Disease Control and Prevention, Hubei, China
- PO2533 TRENDS AND PATTERNS OF ENERGY INTAKE AMONG ADULTS IN SHANDONG PROVINCE, 2000-2009**
J. Zhang, Department of Nutrition and Food Safety, Shandong Center for Disease Control and Prevention, Shandong, China

- PO2534 VALIDATION STUDY OF ESTIMATION ERRORS IN VARIOUS PATTERNS OF RICE PHOTOGRAPHS**
S. Kato, Department of Nutrition Science, Faculty of Nursing and Nutrition, University of Nagasaki, Nagasaki, Japan
- PO2535 THERAPEUTIC USE OF VANADIUM FOR TREATMENT OF NON-INSULIN DEPENDENT DIABETES MELLITUS**
S. Athimoolam, North East Regional Institute of Education, National Council of Educational Research and Training, Umiam, India
- PO2536 RELATIONSHIP BETWEEN DIETARY NUTRIENTS AND OXIDATIVE STRESS MARKERS**
K. Tomioka, Department of Nutritional Science, Okayama Prefectural University, Soja-shi, Okayama-ken, Japan
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M. Mardewi, Helen Keller International, Indonesia Office, Jakarta, Indonesia
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J. Knowles, Global Alliance for Improved Nutrition (GAIN), Geneva, Switzerland
- PO2539 MONITORING THE COMPLETENESS OF ADULTS' AND CHILDREN'S 24-HOUR URINE COLLECTIONS USING PABA**
L. Cox, MRC Human Nutrition Research, Cambridge, UK
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L. Cox, MRC Human Nutrition Research, Cambridge, UK
- PO2541 INADEQUATE AMOUNT OF SLEEP AS ONE OF THE RISK FACTORS OF OVERWEIGHT AND OBESITY IN POLISH MALES**
M. Jarosz, Department of Dietetic and Nutrition in Hospitals with Clinic of Metabolic Diseases and Gastroenterology, National Food and Nutrition Institute, Warsaw, Poland
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E. P. Rezende, Instituto de Nutrição, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil
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N. N. Wirawan, Department of Nutrition, University of Brawijaya, Malang, Indonesia
- PO2544 BODY COMPOSITION OF ADULTS WITH SICKLE CELL DISEASE**
K. Cordovil, Master student, Medical Sciences Post Graduation, Faculty of Medical Sciences Institute of Nutrition, State University of Rio de Janeiro, Rio de Janeiro, Brazil
- PO2545 ASSESSMENT OF THE GROWTH DEVELOPMENT OF CHILDREN UNDER 5 YEARS OLD IN LEBANON**
J. Najjar, World Vision, Beirut, Lebanon
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A. Osei, Helen Keller International, Asia Pacific Regional Office, Phnom Penh, Cambodia
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N. Steyn, Population Health, Health Systems and Innovation, Human Sciences Research Council, Cape Town, South Africa
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M. Griffiths, The Manoff Group, Washington, USA
- PO2549 VALIDATION OF SKINFOLD THICKNESS EQUATIONS WITH AIR DISPLACEMENT PLETHYSMOGRAPHY FOR ESTIMATION OF BODY COMPOSITION AMONG ADOLESCENTS**
Y. N. Ang, Nutritional Sciences Programme, School of Healthcare Sciences, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia
- PO2550 IRON AND ZINC SUPPLEMENTATION IN YOUNG ADULT CAMEROONIANS IN POOR VITAMIN A DIETS**
M. M. Kana Sop, University of Douala Faculty of Science, Departement of Biochemistry, Douala, Cameroon
- PO2551 EFFECT OF GROUP GUIDANCE ON NUTRITION TO PATIENTS WITH CHRONIC RENAL FAILURE**
H. Ikeda, Nihon University, Tokyo, Japan
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D. Kim, Nutrition Policy Team, Korea Health Industry Development Institute (KHIDI), Chungbuk, Korea
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F. Bageherzadeh, Students' Research Committee, Faculty Nutrition, Tabriz University of Medical Sciences, Tabriz, Iran
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D. Souza, Departamento de Nutrição Social, Universidade Federal Fluminense, Niteroi, Brasil
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V. Wahrlich, Departamento de Nutrição Social, Universidade Federal Fluminense, Niteroi, Brasil
- PO2556 FUNCTIONAL CAPACITY AND ITS ASSOCIATION WITH NUTRITIONAL STATUS IN THE ELDERLY**
T. Menezes, State University of Paraiba, Paraiba, Brazil
- PO2557 PREDICTING OBESITY AMONG DIFFERENT 2 MAJOR ETHNICS IN EAST JAVA**
N. N. Wirawan, Department of Nutrition, University of Brawijaya, Malang, Indonesia
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H. Lim, Department of Clinical Nutrition, Soonchunhyang University Bucheon Hospital, Gyeonggi-do, South Korea
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J. Waid, Helen Keller International, Dhaka, Bangladesh
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A. D. M. Funkeu, Department of Biochemistry, University of Douala, Douala, Cameroon
- PO2561 BODY COMPOSITION IN AMATEUR AND PROFESSIONAL BOXING VERSUS PHANTOM**
A. Witriw, School of Nutrition, Faculty of Medicine, University of Buenos Aires, Buenos Aires, Argentina
- PO2562 PHYLLQUINONE CONTENT OF VEGETABLES AND DIETARY VITAMIN K1 INTAKE IN CHINESE ELDERLY PEOPLE**
X. H. Wang, Department of Nutrition and Food Hygiene, Shenyang Medical College, Shenyang, Liaoning, PR China
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- PO2565 EVALUATION OF MINERAL STATUS IN RHEUMATOID ARTHRITIS PATIENTS**
S. Cozzolino, Department of Food and Experimental Nutrition, Faculty of Pharmaceutical Science, University of São Paulo, São Paulo, Brazil
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M G. Galan, Instituto de Tecnologia de Alimentos, Facultad de Ingeniería Química, Universidad Nacional del Litoral, Santa Fe, Argentina
- PO2568 DIET ANALYSIS OF ELDERLY PEOPLE: DEVELOPMENT OF A FOOD LIST**
A M P. Freitas, Post Graduate Program in Applied Human Nutrition (PRONUT) / School of Arts, Sciences and Humanities/University of São Paulo - USP / Brazil - São Paulo
- PO2569 BODY COMPOSITION AND PATTERN OF FAT DISTRIBUTION IN SCHOOL CHILDREN OF RURAL AND URBAN PLACES OF VENEZUELA**
B. Infante, Department of Basic Science, Universidad Central de Venezuela, Caracas, Venezuela
- PO2570 DEVELOPMENT AND VALIDATION OF A SEMI-QUANTITATIVE FOOD FREQUENCY QUESTIONNAIRE FOR YOUNG SCHOOL-AGED CHILDREN**
V. Bountziouka, Department of Nutrition-Dietetics, Harokopio University, Athens, Greece
- PO2571 THE INFLUENCE OF DIETARY FAT ON THE FAECAL EXCRETION OF ZINC AND IRON**
N. Stroebinger, Riddet Institute, Massey University, Palmerston North, Manawatu, New Zealand
- PO2572 DEVELOPMENT OF ENGLISH HOMEPAGE OF NUTRITIONAL INFORMATION ON KOREAN FOOD FOR INTERNATIONAL INFORMATION EXCHANGE**
S N. Kim, Department of Agrofood Resources, NAAS, RDA, Gyeonggi, Korea
- PO2573 STATUS OF SERUM 25 (OH)-VITAMIN D IN ELDERLY IRANIAN SUBJECTS AFTER ONE YEAR SUPPLEMENTATION WITH VITAMIN E AND C**
M. Srour, Department of Nutritional Sciences, University of Vienna, Vienna, Austria
- PO2574 THE QUALITY OF FOOD INTAKE OF FILIPINO HOUSEHOLDS: PROGRAMMATIC IMPLICATIONS**
M A. Constantino, Department of Science & Technology, Food & Nutrition Research Institute, Taguig, Philippines
- PO2575 A COMPARATIVE STUDY ON THE INFANT AND YOUNG CHILD FEEDING PRACTICE AND NUTRITION STATUS AMONG 6-23 MONTHS AGE GROUP CHILDREN**
T. Khatun, Department of Community Nutrition, Bangladesh Institute of Health Sciences (BIHS), Dhaka, Bangladesh
- PO2577 WATER AND BEVERAGE INTAKE IN HEALTHY SUBJECTS FROM EUROPEAN COUNTRIES**
M. Nissensohn, Department of Clinical Sciences, University of Las Palmas de Gran Canaria, Las Palmas de Gran Canaria, Spain
- PO2578 DIFFERENTIAL RELATIONSHIPS BETWEEN FRIED FOODS INTAKE ESTIMATED BY SELF-REPORTED DIETARY INSTRUMENTS, THE MULTIPLE SOURCE METHOD, AND WEIGHT GAIN DURING PREGNANCY**
D. Sartorelli, Department of Social Medicine, University of Sao Paulo, Sao Paulo, Brazil
- PO2579 PREVALENCE OF OVERWEIGHT AND OBESITY AMONG ADOLESCENTS IN SECONDARY SCHOOLS IN ABA SOUTH L.G.A ABIA STATE**
O. Onuoha, University of Nigeria, Nsukka, Nigeria
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C. Mota, National Health Institute Doutor Ricardo Jorge, Department of Food and Nutrition, Lisboa, Portugal
- PO2581 INTER-RELATIONSHIPS AMONG ZINC, HEMOGLOBIN, AND SELENIUM STATUS OF RURAL MALAWIAN WOMEN**
E. Siyame, Department of Home Economics and Human Nutrition, Bunda College of Agriculture, University of Malawi, Lilongwe, Malawi
- PO2582 FOOD FORTIFICATION STRATEGY TO CONTROL MICRONUTRIENT DEFICIENCIES IN SENEGAL**
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- PO2584 SMARTPHONE BASED VITAMIN D MONITORING**
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- PO2585 THE RISK OF ZINC DEFICIENCY DOES NOT DIFFER BETWEEN PREMENOPAUSAL FEMALE AUSTRALIAN BLOOD DONORS AND NON-DONORS: A CROSS-SECTIONAL STUDY**
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- PO2587 PROPOSED CUTOFF FOR OBJECTIVE DIAGNOSIS OF LIPODYSTROPHY IN HIV SEROPOSITIVE BRAZILIANS**
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- PO2588 A BRIEF USER FRIENDLY TOOL TO ASSESS PATIENTS' NUTRITIONAL STATUS, DIETARY & EXERCISE PATTERNS**
N T. Adikari, Wayamba University, Kuliyapitiya, Sri Lanka
- PO2589 ASSOCIATION BETWEEN SERUM 25-HYDROXY-VITAMIN D LEVEL AND (FEATURES OF) THE METABOLIC SYNDROME: A CROSS-SECTIONAL STUDY IN THE NETHERLANDS**
M A H. Hendriksen, National Institute for Public Health and the Environment, Bilthoven, The Netherlands
- PO2590 LEVEL OF ANAEMIA AMONG PREGNANT WOMEN IN TRIBAL INDIA**
J B. Singh, Institute of Health Management Research, Jaipur, India
- PO2591 VALIDATION OF A SEMI-QUANTITATIVE FOOD FREQUENCY QUESTIONNAIRE FOR SRI LANKAN ADULTS**
R. Jayawardena, Diabetes Research Unit, Faculty of Medicine, University of Colombo, Colombo, Sri Lanka
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N N. Wirawan, Department of Nutrition, Faculty of Medicine, University of Brawijaya, Malang, East Java Province, Indonesia
- PO2593 IODINE STATUS IN SPANISH WOMEN OF CHILDBEARING AGE**
L. Gonzalez Rodriguez, Department of Nutrition, Faculty of Pharmacy, Complutense University of Madrid, Madrid, Spain
- PO2594 NOURISHMENT AND ITS RELATION WITH IMMUNOLOGY IMMUNITARY RESPONSE AND OXIDATIVE STRESS**
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- PO2595 THE RELATIVE VALIDATION OF EASY DIETARY ASSESSMENT TOOL USING URINE SODIUM AND NORMALIZED PROTEIN NITROGEN APPEARANCE AS BIOMARKERS**
A. Saetie, Institute of Nutrition, Mahidol University, Bangkok, Thailand
- PO2596 FOLATE STATUS OF FILIPINO WOMEN OF CHILDBEARING AGE**
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- PO2597 BODY COMPOSITION ASSESSMENT DURING REHABILITATION OF MALNOURISHED INFANTS AND CHILDREN IN A CLINICAL SETTING**
A. Badaloo, Tropical Metabolism Research Unit, University of the West Indies, Kingston, Jamaica
- PO2598 DIFFERENCES BETWEEN VEGETARIAN AND NON-VEGETARIAN DIETARY PATTERNS AND THEIR NUTRIENT PROFILES STRATIFIED BY SEX AND RACE**
N. Rizzo, Department of Nutrition, School of Public Health, Loma Linda University, Loma Linda, California, USA
- PO2599 COMPARISON OF CORRECTION FACTORS FOR EFFECTS OF SUBCLINICAL INFECTION ON PLASMA FERRITIN, BASED ON CROSS-SECTIONAL (INTER-GROUP) VERSUS LONGITUDINAL (INTRA-INDIVIDUAL) DATA**
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- PO2600 COMPARATIVE STUDY OF THE ORAL ABSORPTION OF MICROENCAPSULATED FERRIC SACCHARATE AND FERROUS SULPHATE IN HUMANS**
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- PO2601 DIETARY DIVERSITY AND ITS DETERMINANTS IN RURAL SOUTH-EAST PERUVIAN HIGHLAND**
U. Chavez Zander, Justus Liebig University of Giessen, Giessen, Germany
- PO2602 ASSESSMENT OF SELENIUM INTAKE FROM GRAIN IN KOREAN ADULTS**
O. Lee, Yongin University, Kyonggi, province, Korea
- PO2603 NECK CIRCUMFERENCE AS A PREDICTOR OF OBESITY IN ADOLESCENTS UNDER AGE AND PUBERTAL STAGES**
R L. Ferretti, Department of Pediatrics, Federal University of São Paulo, São Paulo, Brazil
- PO2604 VITAMIN A, ANEMIA, ZINC STATUS AND PARASITIC INFECTION IN MEXICAN SCHOOL CHILDREN**
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- PO2605 THE DEVELOPMENT AND VALIDATION OF FOOD PHOTOGRAPHS IN THE ONLINE HELLENIC HEALTH FOUNDATION (HHF) DIETARY ASSESSMENT TOOL**
A. Naska, Department of Hygiene, Epidemiology and Medical Statistics, National and Kapodistrian University of Athens, Athens, Greece
- PO2606 IS INFLAMMATION CORRECTION NECESSARY TO ESTIMATE THE PREVALENCE OF IRON DEFICIENCY AMONG 3-12 Y-OLD THAI CHILDREN?: THE SEANUTS STUDY**
N. Rojroongwasinkul, Institute of Nutrition, Mahidol University, Phuttamonthon, Thailand
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F. Wenhold, University of Pretoria, Pretoria, South Africa
- PO2609 BODY COMPOSITION AND WEIGHT CHANGES DURING PREGNANCY: A STUDY FROM NANJING, CHINA**
M. Miao, Department of Nutrition, Nanjing Maternity and Child Health Care Hospital, Nanjing, China
- PO2610 WAIST CIRCUMFERENCE AS A SCREENING MEASUREMENT FOR CENTRAL OBESITY AMONG EGYPTIAN ADOLESCENTS**
D. Shehab, National Nutrition Institute, El Cairo, Egypt
- PO2611 ASSOCIATION BETWEEN DIETARY DIVERSITY AND PERCEPTION BASED MEASURES OF FOOD INSECURITY: DOES SEASONALITY AND FOOD PRICE CHANGE THE RELATIONSHIP?**
J. Waid, Helen Keller International, New York, USA
- PO2612 ANTHROPOMETRIC MEASURES, NUTRITIONAL STATUS, COGNITIVE RESTRAINT AND EMOTIONAL EATING PATTERNS IN FEMALE UNIVERSITY STUDENTS**
A. Witriw, School of Nutrition, Faculty of Medicine, University of Buenos Aires, Buenos Aires, Argentina
- PO2613 ADOPTING STANDARDIZED EUROPEAN DIETARY METHODOLOGY (EPIC-SOFT) FOR RESEARCH AND DIETARY SURVEILLANCE IN KOREA**
M K. Park, Dietary Exposure Assessment Group, International Agency for Research on Cancer, Lyon, France
- PO2614 PROTEIN QUALITY OF PROCESSED CONOPHOR NUT USING RAT BIO-ASSAY**
A. Esekheigbe, Ambrose Alli University, Ekpoma, Nigeria
- PO2615 DIETARY SELENIUM/VITAMIN E AT SUPRANUTRITIONAL DOSES AMELIORATE EFFECT OF HEAT STRESS ON PHYSIOLOGICAL PARAMETERS AND ACID BASE BALANCE IN SHEEP**
S S. Chauhan, Department of Animal Husbandry, Himachal Pradesh, Shimla, (HP) India
- PO2616 NUTRITIONAL CHARACTERISTICS IN A MEDITERRANEAN COMMUNITY AMONG PROCREATING MOROCCAN WOMEN**
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- PO2617 IDENTIFICATION OF PROBLEMS OF NUTRITIONISTS IN USING EXISTING FOOD COMPOSITION TABLE AND DEVELOPMENT OF NEW FOOD COMPOSITION TABLE FOR PAKISTAN**
S. Aftab, Department of Health and Hospital Management, Institute of Business Management, Karachi, Sindh, Pakistan
- PO2618 SALT PREFERENCE AND SODIUM INTAKE OF KOREAN NORMOTENSIVE FEMALE ADULTS**
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- PO2619 PREVALENCE OF VITAMIN B12 AND FOLATE DEFICIENCY IN LATIN AMERICA AND THE CARIBBEAN**
A. Brito, Micronutrients Laboratory, Institute of Nutrition and Food Technology (INTA), Universidad de Chile, Santiago, Chile
- PO2620 SELENIUM CONTENT IN COWPEA (VIGNA UNGUICULATA) IN THE STATE OF CEARA - BRAZIL**
P P. Pessoa, State University of Ceara, Ceara, Brazil
- PO2621 TOTAL AND HAEM IRON IN FRESH ANGUS STEERS MEAT FROM NATURAL PASTURES TO CONCENTRATED-BASED FEEDING SYSTEMS IN URUGUAY**
M C. Cabrera, Facultad de Agronomía-Universidad de la República, Montevideo, Uruguay
- PO2622 SELENIUM, ZINC, COPPER AND MANGANESE IN FRESH ANGUS STEERS MEAT FROM PASTURES TO CONCENTRATED-BASED FEEDING SYSTEMS IN URUGUAY**
M.C. Cabrera, Facultad de Agronomía-Universidad de la República, Montevideo, Uruguay
- PO2623 FATTY ACID COMPOSITION OF MEAT FROM HEREFORD AND BRAFORD BREED PRODUCED ON PASTURE IN URUGUAY**
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- PO2624 EVALUATION OF NUTRITIONAL QUALITY IN THE POPULATION AT HIGHEST RISK OF POVERTY IN SERBIA**
M. Glibetic, Centre of Research Excellence in Nutrition and Metabolism, Institute for Medical Research, University of Belgrade, Belgrade, Serbia
- PO2625 NUTRITION ASSESSMENT OF DOWN'S SYNDROME CHILDREN IN EGYPT**
S. Khairy, National Nutrition Institute, El Cairo, Egypt

- PO2626 EFFECTS OF FORTIFIED FLOUR CONSUMPTION ON SERUM FOLATE AND HOMOCYSTEINE IN CHILDBEARING-AGED WOMEN IN HIGH PREVALENCE REGIONS OF NEUROTUBE DEFECT**
H. Jian, National Institute For Nutrition and Food Safety, Chinese CDC, China
- PO2627 ENRICHMENT OF BOVINE MEAT BY ORGANIC SELENIUM**
A. Saadoun, Facultad de Ciencias-Universidad de la Republica, Montevideo, Uruguay
- PO2628 NUTRITIONAL POTENTIALITY OF THREE PARTS OF YAM (DIOSCOREA SPP.) TUBER DURING THE GROWTH PERIOD**
D C. Kouadio, Food Science and Technology, University of Abobo-Adjame, Abidjan, Côte d'Ivoire
- PO2629 MICRONUTRIENT POWDER DISTRIBUTION TO YOUNG CHILDREN: SECONDARY ANALYSIS OF ANAEMIA DATA AND PROGRAMMATIC EXPERIENCE IN HIGH ANAEMIA BURDEN REFUGEE SETTING**
M M. Rahman, Sub-Office of the United Nations High Commissioner for Refugees, Cox's Bazar, Bangladesh
- PO2630 PREVALENCE OF INADEQUATE INTAKE OF ANTIOXIDANT NUTRIENTS FOR PATIENTS UNDERGOING DIALYSIS TREATMENT AT A CLINIC IN FORTALEZA, BRAZIL**
A. Fernandes, State University of Ceara, Ceara, Brazil
- PO2631 PREVALENCE OF VITAMIN A DEFICIENCY IN LATIN AMERICA AND THE CARIBBEAN: A SYSTEMATIC REVIEW UPDATE**
G. Cediell, Institute of Nutrition and Food Technology (INTA), University of Chile, Santiago, Chile
- PO2632 EFFECT OF SHIFT WORK ON THE FEEDING PRACTICES OF CHILDREN (0-24 MONTHS)**
A. Kesinro, Department of Family, Nutrition and Consumer Sciences, Faculty of Agriculture, O.A.U, Ile-Ife, Osun State, Nigeria
- PO2634 ASSESSMENT OF MAXIMAL OXYGEN UPTAKE IN IRON-DEFICIENT RWANDAN WOMEN**
S. Luna, Division of Nutritional Sciences, Cornell University, Ithaca, NY, USA
- PO2635 CALCIUM INTAKE AND BONE MINERAL DENSITY IN YOUNG MEN WITH DIFFERENT LEVELS OF PHYSICAL ACTIVITY**
J. Nyisztor, Laboratorio de Nutricion, Universidad Simon Bolivar, Caracas, Venezuela
- PO2636 EARLY PEAK HEIGHT VELOCITY IS ASSOCIATED WITH CARDIOVASCULAR DISEASE MORTALITY IN A COHORT OF ICELANDIC WOMEN**
C M. Imai, Unit for Nutrition Research, University of Iceland and Landspítali National University Hospital, Reykjavik, Iceland
- PO2637 OVERALL PLATE WASTE DETERMINATIONS AT PRIMARY SCHOOLS' CANTEENS: A COMPARISON OF TWO METHODS**
M. Liz Martins, Faculty of Food Science and Nutrition, University of Porto, Portugal
- PO2638 PREDICTING POTENTIAL BENEFIT FROM IRON INTERVENTIONS: RESULTS OF A RANDOMIZED CONTROLLED TRIAL OF DOUBLE-FORTIFIED SALT IN FEMALE INDIAN TEA PLUCKERS**
J. Hammons, Division of Nutritional Sciences, Cornell University, Ithaca, New York, USA
- PO2639 BODY FAT PERCENTAGE AND BODY MASS INDEX RELATIONSHIP IN A SAMPLE OF ADULTS FROM NITEROI, RIO DE JANEIRO, BRAZIL**
L. Dos Anjos, Laboratorio de Avaliação Nutricional e Funcional, Departamento de Nutrição Social, Universidade Federal Fluminense, Niteroi, Brazil
- PO2640 CONTRIBUTION TO IMPROVEMENT? POTENTIAL OF NON-TIMBER FOREST PRODUCTS EXTRACTION IN PERIPHERAL AREAS OF PERUVIAN AMAZON**
H. Kotkova, Czech University of Life Sciences, Prague, Czech Republic
- PO2641 REFERENCES FOR WAIST CIRCUMFERENCE FOR PORTUGUESE ADOLESCENTS**
B. Sousa, Faculty of Nutrition and Food Sciences of University of Porto, Porto, Portugal
- PO2642 INTER-METHOD AGREEMENT OF TWO DIFFERENT ASSESSMENT TOOLS FOR CALCIUM INTAKE REGISTRATION IN ADOLESCENT SWIMMERS**
C. Julian-Almarcegui, GENU (Growth, Exercise, Nutrition and Development) Research Group, Zaragoza, Spain
- PO2643 DAILY INTAKE OF VITAMIN D AND ITS INFLUENCE ON BONE MASS IN ADOLESCENT SWIMMERS. PRELIMINARY RESULTS**
C. Julian-Almarcegui, GENU (Growth, Exercise, Nutrition and Development) Research Group, Universidad de Zaragoza, Zaragoza, Spain
- PO2647 ASSESSMENT OF BONE BUILDING MINERALS AMONG STUNTED AND NORMAL CHILDREN**
G. Hassan, National Nutrition Institute, El Cairo, Egypt
- PO2648 EVALUATION OF SOCIODEMOGRAPHIC FACTORS AFFECTING FREQUENCY OF VISITING MATERNAL AND CHILD HEALTH SERVICES AT A WEST AFRICAN CAPITAL (LIBREVILLE)**
G. Hassan, National Nutrition Institute, El Cairo, Egypt
- PO2649 QUANTIFICATION OF VITAMIN E IN DEHYDRATED BEE POLLEN OF SOUTHERN BRAZIL**
J. Gasparotto Sattler, Department of Food and Experimental Nutrition, Pharmaceutical Science School, University of São Paulo, Sao Paulo, Brazil
- PO2650 CLINICAL CASE: SYNDROME WITH MAXILLARY CENTRAL INCISOR UNIQUE MEDIUM WITH LOW WEIGHT AND FEEDING DIFFICULTIES**
R. Llado Padovani, Child Nutrition Unit, Department of Pediatrics, QUIRON Palma Planas Hospital, Palma de Mallorca, Balearic Islands, Spain
- PO2651 VITAMIN D INSUFFICIENCY IN RURAL WOMEN LIVING NEAR THE EQUATOR IN SOUTHERN ETHIOPIA**
T G. Egziabher, School of Nutrition, Food Science & Technology, Hawassa University, Hawassa, Ethiopia
- PO2652 VALIDITY OF INSTRUCTION LEAFLETS FOR PARENTS TO MEASURE THEIR CHILD'S WEIGHT AND HEIGHT AT HOME**
I. Huybrechts, Department of Public Health, Faculty of Medicine and Health Sciences, Ghent University, Ghent, Belgium
- PO2653 (E-)TRAINING: A VITAL COMPONENT IN THE STANDARDIZATION OF INTERNATIONAL NUTRITION STUDIES**
I. Huybrechts, International Agency for Research on Cancer, Dietary Exposure Assessment Group, International Agency for Research on Cancer (IARC/WHO), Lyon, France
- PO2654 NUTRITIONAL ASSESSMENT OF CHILDREN AND TEENAGERS WITH OVERWEIGHT AND/OR OBESITY TO METABOLIC SYNDROME PREDISPOSITION**
C. Freiberg, Universidade Guarulhos, São Paulo, Brasil
- PO2655 THE EFFECT OF TEA CONSUMPTION ON NONHEME IRON ABSORPTION FROM A COMPLETE DIET**
M. Reddy, Iowa State University, Iowa, USA
- PO2656 CUTOFF POINTS FOR THIGH CIRCUMFERENCE TO IDENTIFY OBESITY IN ADOLESCENTS**
R L. Ferretti, Department of Pediatrics, Federal University of São Paulo, São Paulo, Brazil
- PO2657 NUTRITIONAL ASSESSMENT AND COUNSELING IN THE OLDER ADULT TO IMPROVE FOOD HABITS AND GENERATE CHANGES IN THE STYLE OF LIFE**
F. Chileno Maita, Internal of Nutrition and Dietetics In The Metropolitan Municipality of Lima University Female Sacred Heart - UNIFE, Lima, Peru

- PO6233 SELENIUM NUTRITIONAL STATUS IN PATIENTS UNDERGOING DIALYSIS TREATMENT AT A CLINIC IN CEARA, BRAZIL**
C F. Barroso, State University of Ceara, Ceara, Brazil
- PO3367 YEAST SACCHAROMYCES CEREVISIAE AS A SOURCE OF ZINC AND MAGNESIUM AND POTENTIAL SUPPLEMENT IN NUTRITION**
D. Urmínska, Slovak University of Agriculture, Nitra, Slovak Republic
- PO3368 BREASTMILK B-VITAMINS CONCENTRATIONS IN HIV-INFECTED MALAWIAN WOMEN ARE INCREASED BY LIPID-BASED NUTRIENT SUPPLEMENTS AND REDUCED BY ANTIRETROVIRAL PROPHYLAXIS**
S. Shahab-Ferdows, WHNRC, ARS/USDA, Davis, CA, USA
- PO3369 COMPREHENSIVE APPROACH TO ENSURE THE QUALITY OF URINARY IODINE DETERMINATIONS**
A. Makhmudov, Inorganic and Radiation Analytical Toxicology Branch, Division of Laboratory Sciences, National Center for Environmental Health, Centers for Disease Control and Prevention, Atlanta, USA
- PO3370 INFLUENCE OF VELOCITY OF WEIGHT GAIN IN THE FIRST MONTHS OF LIFE IN THE NUTRITIONAL STATUS OF CHILDREN 4-7 YEARS**
S A. Vieira, Department of Nutrition and Health, Universidade Federal de Viçosa, Viçosa, Minas Gerais, Brazil
- PO3371 ASSOCIATION BETWEEN IRON STORES AT BIRTH AND TIME OF CORD CLAMPING AND ANEMIA IN CHILDREN AT SIX MONTHS**
F C C. Oliveira, Integrated Education in Health Department, Universidade Federal do Espírito Santo, Vitória, Espírito Santo, Brazil
- PO3372 THE EFFECT OF AN INTERVENTION WITH FISH AND SHELLFISH ON MERCURY, ARSENIC, LEAD, AND CADMIUM LEVELS IN BLOOD**
M. Outzen, Unit of Diet, Genes and Environment, Danish Cancer Society Research Center, Copenhagen, Denmark
- PO3373 EVALUATION OF NUTRITIONAL STATUS USING ANTHROPOMETRIC AND BIOCHEMICAL INDICES OF COMMUNITY DWELLING OLDER PERSONS**
O. Nzeagwu, Department of Human Nutrition and Dietetics, Michael Okpara University of Agriculture Umudike, Umuahia, Abia State, Nigeria
- PO3374 A HEALTHY DIETARY HABITS SCORE IS AN INDICATOR OF DIET QUALITY IN NEW ZEALAND ADOLESCENTS**
J E. Wong, Department of Human Nutrition, University of Otago, Dunedin, New Zealand
- PO3375 IODINE STATUS OF NEW ZEALAND ADULTS HAS IMPROVED SINCE MANDATORY FORTIFICATION OF BREAD**
J. Edmonds, Ministry for Primary Industries, Wellington, New Zealand
- PO3376 TRANS FATTY ACIDS CONSUMPTION LEVELS OF RESIDENTS LIVING IN THE TOKYO REGION**
K. Yoshizawa, University of Nagasaki, Siebold, Guatemala
- PO3377 PHYTASE IMPROVES AVAILABILITY OF MINERALS FROM FORTIFIED TODDLER CEREALS - AN IN-VITRO MODEL**
V. Elste, DSM Nutritional Products Ltd., Basel, Switzerland
- PO3378 THE EFFECT OF MATERNAL OBESITY ON IRON STATUS, PLACENTAL TRANSFERRIN RECEPTOR EXPRESSION AND PREGNANCY OUTCOME. RESULTS OF PREOBE-STUDY**
L.M. Garcia-Valdes, Rowett Institute of Nutrition and Health, University of Aberdeen, UK
- PO3379 FOLIC ACID DIETARY STATUS AND B12 DEFICIENCY ARE CRITICAL FACTORS TO EVALUATE HEPATIC AND VASCULAR DAMAGE IN GROWING RATS**
T. Partearroyo, University CEU San Pablo, Madrid, Spain
- PO3380 HEALTH RISKS OF TOO LOW AND TOO HIGH INTAKE SHOULD BE EQUALLY CONSIDERED WHEN SETTING MICRONUTRIENT LEVELS IN FOOD**
M. Bruins, DSM Biotechnology Center, Delft, The Netherlands

T6. Functional Foods and Bioactive Compounds

- PO2658 EVALUATION OF DEFATTED SOY BASED FORMULAS PREPARED FOR INFANTS AND YOUNG CHILDREN WITH ACUTE DIARRHEA**
S. Zaki, Department of Food Technology, Faculty of Agriculture, Cairo University, Giza, Egypt
- PO2659 DEVELOPMENT OF PROBIOTIC FOOD MULTIMIX (PFMM)**
R. Djoulde Darman, Department of Agriculture Husbandry and By products, The Higher Institute of the Sahel, University of Maroua, Maroua, Cameroon
- PO2661 BENEFITS OF HYDROLYSED COLLAGEN SUPPLEMENTATION IN SKIN'S PHYSIOLOGY OF MIDDLE-AGED PORTUGUESE WOMEN**
N. Tavares, BIOS, Escola de Ciências e Tecnologias da Saude, Universidade Lusofona, Lisboa, Portugal
- PO2662 DEVELOPMENT OF TASTY BREAD CONTAINING FUNCTIONAL ULVA PERTUSA POWDER**
T. Yamauchi, Faculty of Human Life and Environmental Sciences, Nagoya Women's University, Nagoya, Aichi, Japan
- PO2663 ANTIOXIDANT ACTIVITY AND PHENOLICS CONTENT OF SWEET CHERRIES (PRUNUS AVIUM L.) FROM NORTHERN SERBIA**
M. Popovic, Faculty of Agriculture, University of Novi Sad, Novi Sad, Serbia
- PO2664 PROTECTIVE EFFECT OF LYCOPENE AGAINST ACUTE MYOCARDIAL INFARCTION**
Y. Zhang, Department of Nutrition and Food Hygiene, Public Health School of Harbin Medical University, Harbin, China
- PO2665 ANTIOXIDATIVE AND HEPATOPROTECTIVE EFFECTS OF GLOSSOGYNE TENUIFOLIA ON ACETAMINOPHEN-INDUCED LIVER DAMAGE IN MICE**
Y. Lu, Department of Nutritional Science, Fu-Jen Catholic University, New Taipei City, Taiwan
- PO2666 IN VITRO METABOLISM OF 3,5,6,7,8,3',4'-HEPTAMETHOXYFLAVONE BY RAT LIVER MICROSOMES**
N. Koga, Faculty of Nutritional Sciences, Nakamura Gakuen University, Japan
- PO2667 PLANT-BASED FOODS AS A SOURCE OF LIPOTROPES FOR PREVENTING HEPATIC STEATOSIS**
Fardet, Inra, CLERMONT-FERRAND, France
- PO2668 NOURISHMENT FUNCTION IMPROVEMENT OF THE WHEAT PRODUCTS BY THE ULVA PERTUSA ADDITION**
A. Yamamoto, Department of Food Science and Nutrition, Aichi Gakusen College, Japan
- PO2669 DETERMINATION OF PHENOLIC ACIDS IN INDIGENOUS LEAFY VEGETABLES OF BOTSWANA BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY**
S T P. Matenge, National Food Technology Research Centre, Kanye, Botswana
- PO2670 INFLUENCE OF PINE BARK EXTRACT POLYPHENOLS ON INTESTINAL MICROFLORA**
T. Sanchez Moya, Department of Food Science and Nutrition, Faculty of Veterinary Sciences of University of Murcia, Murcia, Spain

- PO2671 SYNERGISTIC ANTIOXIDANT ACTIVITY OF PROTEIN HYDROLYSATES FROM DIFFERENT SOURCES OBTAINED BY ENZYMATIC HYDROLYSIS**
R. Castro, Department of Food Science, School of Food Engineering, University of Campinas, Campinas, São Paulo, Brazil
- PO2672 FUNCTIONAL PROPERTIES AND INHIBITION OF THE RELATIVE LIPID ACCUMULATION OF PROTEIN HYDROLYSATES OBTAINED BY ENZYMATIC HYDROLYSIS USING STATISTICAL MIXTURE DESIGN**
R. Castro, Department of Food Science, School of Food Engineering, University of Campinas, Campinas, São Paulo, Brazil
- PO2673 IN VITRO METABOLISM OF DIOSMETIN AND HESPERETIN BY RAT LIVER MICROSOMES**
C. Ohta, Faculty of Nutritional Sciences, Nakamura Gakuen University, Japan
- PO2674 NOVEL ANXIOLYTIC-LIKE PEPTIDE RELEASED FROM ALPHA-S-CASEIN BY GASTROINTESTINAL PROTEASES**
T. Mizushige, Division of Food Science and Biotechnology, Graduate School of Agriculture, Kyoto University, Kyoto, Japan
- PO2675 PRODUCTION OF OIL PALM (ELAEIS GUINEENSIS) KERNEL PROTEIN HYDROLYSATES WITH ANTIOXIDANT PROPERTIES AND APOLIPOPROTEIN B SECRETION INHIBITION**
S K. Chang, Department of Nutrition and Dietetics, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Selangor, Malaysia
- PO2676 DEVELOPMENT OF A REPROTER ASSAY SYSTEM TO SCREEN FOR CHEMICALS MIMICKING THE ANTI-AGING EFFECTS OF CALORIE RESTRICTION**
T. Chiba, Biomedical Gerontology Laboratory, Faculty of Human Sciences, Waseda University, Tokorozawa, Japan
- PO2677 MONITORING OF BIOACTIVE COMPOUNDS IN READY-TO-HEAT VEGETABLES: EVALUATION OF CONTENT, STABILITY AND COMPARISON**
M I. Alarcon-Flores, Research Group Analytical Chemistry of Contaminants, Department of Chemistry and Physics, Research Centre for Agricultural and Food Biotechnology (BITAL), University of Almeria, Agrifood Campus of International Excellence, Almeria, Spain
- PO2678 A COMPARISON OF BIOACTIVE COMPOUNDS IN FRESH AND FRESH CUT VEGETABLES**
M I. Alarcon-Flores, Group "Analytical Chemistry of Contaminants", Department of Chemistry and Physics, Research Centre for Agricultural and Food Biotechnology (BITAL), University of Almeria, Agrifood Campus of International Excellence, Almeria, Spain
- PO2680 FUNCTIONAL/NUTRACEUTICAL EVALUATION OF CITRUS PEEL AGAINST DYSLIPIDEMIA**
M. Butt, National Institute of Food Science and Technology, University of Agriculture, Faisalabad, Pakistan
- PO2681 FAVORABLE EFFECT OF CONSUMPTION OF LILY BULB ON COLONIC LUMINAL ENVIRONMENT IN RATS FED A HIGH-FAT DIET**
Y. Okazaki, Faculty of Human Life Sciences, Fuji Women's University, Ishikari, Japan
- PO2682 THREE NOVEL PROBIOTIC STRAINS ISOLATED FROM FECES OF BREAST-FED INFANTS MODULATE THE IMMUNE SYSTEM OF HEALTHY ADULTS**
J. Plaza-Diaz, Dept. Biochemistry & Molecular Biology II, School of Pharmacy, Campus de Cartuja, Granada, Spain
- PO2683 DETERMINATION OF THE PHENOLIC COMPOSITION OF GRAPE JUICE AND DIFFERENT TYPES OF WINES FROM MONTEVIDEO AND INTERIOR OF URUGUAY**
M. Panzl, Department of Nutrition, Catholic University of Uruguay, Montevideo, Uruguay
- PO2684 INCREASING THE RESISTANT STARCH CONTENT OF CHICKPEA FLOUR BY ENZYMATIC AND THERMAL TREATMENTS**
A. Guadix, Department of Chemical Engineering, University of Granada, Spain
- PO2685 INFLUENCE OF SIMULATED DIGESTION IN THE ACE INHIBITORY ACTIVITY OF GOAT MILK PROTEIN HYDROLYSATES**
A. Guadix, Department of Chemical Engineering, University of Granada, Spain
- PO2686 AZUKI(RED) BEANS PASTE: EFFECT OF COOKING TIME ON RESISTANT STARCH CONTENTS AND PARTICLE MORPHOLOGY**
A. Kamei, Division of Domestic Science Education, Miyagi University of Education, Sendai, Miyagi prefecture, Japan
- PO2687 EXTRACTS OF SENEN YEMENI PLANTS WITH ANTIOXIDATIVE AND ANTIBACTERIAL ACTIVITIES**
R A S. Thabit, State Key Laboratory of Food Science and Technology, School of Food Science and Technology, Jiangnan University, Wuxi, China
- PO2688 ALGINATE ENRICHED BREAD AS AN OBESITY TREATMENT**
D. Houghton, ICaMB, Newcastle University, Newcastle Upon Tyne, NE2 4HH, UK
- PO2689 EFFECTS OF RESVERATROL ON CHANGES INDUCED BY HIGH-FAT FEEDING ON CLOCK GENES IN RATS**
J. Miranda, Nutrition and Obesity Group, Dpt. Nutrition and Food Sciences, Faculty of Pharmacy, University of the Basque Country (UPV/EHU), Vitoria, Alava, Spain
- PO2690 MALAYSIAN SELECTED LOCAL BASED DISHES: CONTENTS OF MACRONUTRIENT, ISOFLAVONE, TOTAL PHENOL AND ANTIOXIDANT ACTIVITY**
H. Haron, Nutrition Science Programme, School of Health Care, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Kuala Lumpur, Malaysia
- PO2691 COMPARATIVE ANALYSIS OF VOLATILES FROM PLANT CZ BY HDE-GC/MS**
K. Chang, Plant Resources Research Institute, Duksung Women's University, Korea
- PO2692 EFFECTS OF SERICULTURAL PRODUCTS ON BLOOD GLUCOSE AND LIPID STATUS IN STREPTOZOTOCIN-INDUCED DIABETIC MICE**
S H. Cho, Department of Food Science and Nutrition, Catholic University of Daegu, Gyeongbuk, Korea
- PO2693 THAI FRUIT SOURCES FOR LUTEIN AND ZEAXANTHIN: PROTECTIVE EFFECTS AGAINST AGE-RELATED MACULAR DEGENERATION (AMD)**
N. Vatanasuchart, Department of Nutrition and Health, Institute of Food Research and Product Development, Kasetsart University, Bangkok, Thailand
- PO2694 ADLAY CONSUMPTION AMELIORATED THE PROGRESSION OF ALCOHOLIC LIVER DISEASES**
H Y. Yang, I-Shou University, Kaohsiung, Taiwan
- PO2695 BENEFICIAL EFFECTS OF SOY PROTEIN AND β -CONGLYCININ ON NONALCOHOLIC LIVER DISEASES VIA AMELIORATING HEPATIC STEATOSIS AND INSULIN RESISTANCE**
W J. Yeh, Taipei Medical University, Taipei, Taiwan
- PO2696 GREEN TEA EXTRACT SUPPRESSES DISUSE MUSCLE ATROPHY IN MICE**
H. Tachibana, Kyushu University, Faculty of Agriculture, Japan
- PO2697 PHENOLIC CHARACTERIZATION AND ANTIOXIDANT ACTIVITY OF STRAWBERRY (FRAGARIA ANANASSA) PUREE**
M C. Garcia-Parrilla, University of Sevilla, Sevilla, Spain
- PO2698 TOCOPHEROL CONTENT AND TOTAL ANTIOXIDANT CAPACITY IN EXTRA VIRGIN ARGAN OIL**
C. Cabrera-Vique, Departamento de Nutrición y Bromatología, University of Granada, Granada, Spain

- PO2699 BIOACCESSIBILITY OF POLYPHENOLS AND ANTIOXIDANT ACTIVITY IN VIRGIN ARGAN OIL. COMPARISON WITH VIRGIN OLIVE OIL**
C. Cabrera-Vique, Departamento de Nutricion y Bromatologia, University of Granada, Granada, Spain
- PO2702 THE NATURAL IMINUSUGAR D-FAGOMINE REDUCES WEIGHT GAIN AND FAECAL ENTEROBACTERIAL POPULATION OF RATS FED AN ENERGY-DENSE DIET**
S. Ramos-Romero, Department of Biological Chemistry and Molecular Modelling, Institute of Advanced Chemistry of Catalonia (IQAC-CSIC), Barcelona, Spain
- PO2703 INHIBITORY EFFECTS OF PHENOLIC EXTRACTS DERIVED FROM JAPANESE APRICOT FRUIT (PRUNUS MUME) ON RAT SMALL INTESTINAL DISACCHARIDASE ACTIVITIES**
K. Kishida, Department of Science and Technology On Food Safety, Kinki University, Japan
- PO2704 LACTOBACILLUS PARACASEI CBA L74 AND FERMENTED OAT INHIBIT ENTRANCE OF UNDIGESTED GLIADIN PEPTIDES IN CACO-2 CELLS**
M. Sarno, Department of Pediatrics and ELFID, University of Naples Federico II, Italy
- PO2705 IRON AND CALCIUM BIOACCESSIBILITY FROM CEREAL DERIVATIVES**
A. Cilla, Nutrition and Food Science Area, Faculty of Pharmacy, University of Valencia, Valencia, Spain
- PO2706 ANTIOXIDANT AND SCAVENGING CAPACITY OF SERBIAN OAK TREE**
B. Popovic, Faculty of Agriculture, Serbia
- PO2707 PRODUCTION OF LIPIDS WITH IMPROVED NUTRITIONAL AND BIOLOGICAL PROPERTIES USING ENZYMATIC INTERESTERIFICATION OF VEGETABLES OILS FROM AMAZONIAN AREA**
G. Macedo, Food Science Department; UNICAMP - Campinas State University, Campinas, Sao Paulo, Brasil
- PO2708 METABOLIC TRANSIT OF N-CARBOXYMETHYL-LYSINE AFTER CONSUMPTION OF MODEL MAILLARD REACTION PRODUCTS**
I. Roncero-Ramos, Instituto De Nutricion Animal, Estacion Experimental Del Zaidin, CSIC, Spain
- PO2709 EFFECT OF GARLIC ESSENTIAL OIL ON PROTEIN OXIDATION IN CHILL STORED PORK PATTIES**
G. Nieto, University of Murcia, Murcia, Spain
- PO2710 ANTIOXIDANT AND PROOXIDANT ACTIVITIES OF PHENOLIC COMPOUNDS OF THE EXTRACTS OF ECHINACEA PURPUREA (L.) AND CASTANEA SATIVA MILL**
H. Jukic, University of Bihac, College of Medical Studies, Bihac, Bosnia and Herzegovina
- PO2711 DOCOSAHEXAENOIC ACID DOWN-REGULATES EGF-INDUCED MATRIX METALLOPROTEINASE-1/-9 AND UPA EXPRESSION VIA DISRUPTION OF INTERACTION BETWEEN EGFR AND ERBB2 AND INACTIVATION OF EGFR/ERBB-2 SIGNALING IN SK-BR3 BREAST CANCER CELLS**
F. Cheng, School of Nutrition, Chung Shan Medical University, Taichung, Taiwan
- PO2712 ANTI-OBESITY EFFECTS OF DIETARY D-PSICOSE IN GROWING RAT FED A HIGH-SUCROSE DIET**
M. Ochiai, Faculty of Agriculture, Kagawa University, Japan
- PO2713 ASPERGILLUS AWAMORI-FERMENTED BURDOCK ELEVATES BIFIDOBACTERIUM AND REDUCES ADIPOSE TISSUE WEIGHT IN RATS FED A HIGH-FAT DIET**
V N. Sitanggang, Graduate School of Biosphere Science, Hiroshima University, Japan
- PO2714 EFFECTS OF SOY YOGURT ON INTESTINAL AND PLASMA POLYAMINE LEVELS IN YOUNG AND ADULT RATS**
M. Fukuda, Department of Food Science and Nutrition, Mukogawa Women's University, Nishinomiya, Hyogo, Japan
- PO2715 FRUCTOOLIGOSACCHARIDES ENHANCES THE EFFECT OF A FLAVONOID, α -GLUCOSYL-ISOQUERCITRIN, ON GLUCAGON-LIKE PEPTIDE-1 (GLP-1) SECRETION IN RAT INTESTINE AND ENTEROENDOCRINE CELLS**
P. Phuwamongkolwiwat, Graduate School of Agriculture, Hokkaido University, Sapporo, Hokkaido, Japan
- PO2716 FRUCTO-OLIGOSACCHARIDE SUPPLEMENTATION REDUCED FECAL TOXICITY, BILE ACID AND BACTERIAL RISK FACTORS OF COLORECTAL CANCER IN CONSTIPATED OLDER VOLUNTEERS**
H. Chen, School of Nutrition, Chung Shan Medical University, Taichung, Taiwan, R.O.C.
- PO2717 SENSORY CHARACTERISTICS AND ACCEPTABILITY OF SAUSAGES WITH 10 % FAT AND ADDED RYE OR WHEAT BRAN**
L.M. Jakobsen, Department of Nutrition, Exercise and Sports, Faculty of Science, University of Copenhagen, Denmark
- PO2718 POTENTIAL APPLICATION OF SOME COMMON INDIAN SPICES AS FUNCTIONAL FOOD ON FISH UNDER REFRIGERATED STORAGE**
B. De, J. D. Birla Institute, Food Microbiology and Biochemistry laboratory, Department of Food Science and Nutrition Management, Kolkata, India
- PO2719 CHANGES IN BAX, BCL-XL, CASPASE-3 AND 8 CONTRIBUTE TO PHYTIC ACID (IP6) INDUCED APOPTOTIC IN HT-29 CELLS**
N. Mohd Esa, Department of Nutrition and Dietetics, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, UPM Serdang, Selangor, Malaysia
- PO2720 SUPPRESSIVE EFFECT OF CRYSTALLIZED CELLULOSE ADDED TO THE LIQUID FORMULA ON POSTPRANDIAL GLUCOSE ELEVATION IN HEALTHY SUBJECTS**
S. Nakamura, Graduate School of Human Health Science, University of Nagasaki Siebold, Japan
- PO2721 DIETARY POLYPHENOLS PROTECT THE BARRIER FUNCTION OF CACO-2 CELLS EXPOSED TO INDOMETHACIN THROUGH THE MODULATION OF OCCLUDIN AND ZO-1 EXPRESSION**
C. Carrasco-Pozo, Department of Nutrition, Faculty of Medicine, University of Chile, Santiago, Chile
- PO2722 INCREASED ANTIOXIDANT POTENTIAL OF RYE FLOUR BY ENZYMATIC HYDROLYSIS**
F. Lima, Department of Science of Food, School of Food Engineering, University of Campinas, Campinas, Brazil
- PO2723 HOW TO ASSESS GASTROINTESTINAL HEALTH BENEFITS OF PREBIOTICS: FOCUSING ON 'MICROBIAL FERMENTATION AND METABOLISM'**
K. Verbeke, Translational Research Center for Gastrointestinal Disorders (Targid), Leuven, Belgium
- PO2724 EFFECT OF SARDINE PROTEINS AND CASEIN COMBINED WITH MARGARINE OR MILK LIPIDS ON OXIDATIVE STRESS MARKERS IN HYPERCHOLESTEROLEMIC RATS**
A. Benyahia - Mostefaoui, Departement de Biologie, Laboratoire de Nutrition Clinique et Metabolique (LNCM), Universite d'Oran, Algeria
- PO2725 ANTHOCYANIN-RICH GRAPE-BILBERRY JUICE INFLUENCES FAT METABOLISM AND IMPROVES RISK FACTORS FOR CARDIOVASCULAR DISEASES IN FISCHER RATS**
D. Graf, Department of Physiology and Biochemistry of Nutrition, Max Rubner-Institut, Karlsruhe, Germany
- PO2726 PHENOLIC COMPOUNDS AND ANTIOXIDANT CAPACITY OF FRESH AND DEHYDRATED CHILEAN FRUITS AND VEGETABLES**
M. Lutz, CIDAf, Facultad de Farmacia, Universidad de Valparaiso, Chile

- PO2727 ISOFLAVONES CONTENT OF QUINOA GRAINS FROM LOCAL ECOTYPES GROWN IN DIFFERENT CONDITIONS**
M. Lutz, CIDAf, Facultad De Farmacia, Universidad De Valparaiso, Chile
- PO2728 APPLYING A BOX-BEHNKEN DESIGN FOR OPTIMIZED EXTRACTION OF AGAVE FRUCTANS (AGAVE TEQUILANA WEBER VAR. AZUL) WITH PREBIOTIC POTENTIAL**
J A. Salazar-Montoya, Department of Biotechnology and Bioengineering, CINVESTAV-IPN, Mexico DF, Mexico
- PO2729 EFFECTS OF LACTIC ACID-FERMENTED SOYMILK ON LIPID METABOLISM-RELATED GENE EXPRESSION IN RAT LIVER**
M. Kobayashi, Department of Food Science and Nutrition, Mukogawa Women's University, Nishinomiya, Hyogo, Japan
- PO2730 QUERCETIN INCREASES BILE ACID EXCRETION IN RATS**
C J. Guo, Department of Nutrition, Institute of Health and Environmental Medicine, China
- PO2731 EFFECTS OF MANGROVE-BARK EXTRACTS ON THE ANTI-TUMOR ACTIVITY IN TUMOR-BEARING C57BL/6 MICE**
J. Nagata, Fukuoka Institute of Technology, Japan
- PO2732 CONTENTS OF QUERCETIN, KAEMFEROL, MYRICETIN, APIGENIN AND LUTEOLIN OF VEGETABLES AND FRUITS IN CHINA AND ESTIMATED DIETARY INTAKE BY CHINESE**
C.J. Guo, Department of Nutrition, Institute of Health and Environmental Medicine, China
- PO2733 THE SEPARATION AND PURIFICATION OF ANTIHYPERTENSIVE PEPTIDES FROM JAPANESE CLASSIFIED BARLEY FLOUR**
M. Kawaguchi, Department of Food Design, College of Nutrition, Koshien University, Japan
- PO2734 THE EFFECT OF DIFFERENT HARVEST PERIODS ON THE CONTENT OF RUTOSIDE IN HERB OF THE SELECTED CULTIVARS OF BUCKWHEAT**
E. Pisulewska, Agricultural University of Krakow, Poland
- PO2735 EFFECTS OF LONG-TERM FEEDING WITH NON-DIGESTIBLE OLIGOSACCHARIDE AND DIETARY FIBER ON AGE-RELATED LEARNING AND MEMORY OF SENESCENCE ACCELERATED MICE**
Y. Yamaguchi, Graduate School of Human Health Science, University of Nagasaki Siebold, Japan
- PO2736 SUPPRESSION ON POSTPRANDIAL BLOOD GLUCOSE AND INSULIN BY INHIBITION OF LOQUAT LEAF EXTRACT FOR DISACCHARIDASE AND GLUCOSE TRANSPORT IN RATS**
K. Tanabe, Graduate School of Human Health Science, University of Nagasaki Siebold, Japan
- PO2737 ORAL 2'-FUCOSYLLACTOSE INCREASES ACETYLCHOLINESTERASE LEVELS IN A MODEL OF EARLY DEVELOPMENT IN ZEBRAFISH**
A. Barranco, Discovery R&D, Abbott Nutrition, Granada, Spain
- PO2738 PRELIMINARY CHARACTERIZATION OF PHENOLIC AND OTHER POLAR COMPOUNDS IN WATERMELON (CUCURBITACEAE) BY USING LIQUID CHROMATOGRAPHY COUPLED TO TANDEM MASS SPECTROMETRY**
I.M. Abu-Reidah, Department of Analytical Chemistry, University of Granada, Granada, Spain
- PO2739 USING OF ULTRA-PERFORMANCE LIQUID CHROMATOGRAPHY COUPLED WITH QUADRUPOLE-TIME-OF-FLIGHT TO CHARACTERIZE UNUSUAL BIOACTIVE PHENOLIC COMPOUNDS FROM GLOBE ARTICHOKE (ASTERACEAE)**
I.M. Abu-Reidah, Department of Analytical Chemistry, University of Granada, Granada, Spain
- PO2740 ORAL 2'-FUCOSYLLACTOSE PREVENTS LONG TERM EFFECTS OF EARLY PSYCHOLOGICAL STRESS ON GLIAL CELL CYTOKINE AND STRESS HORMONE RESPONSE**
E. Vazquez, Discovery R&D, Abbott Nutrition, Granada, Spain
- PO2741 THE EFFECT OF HARVEST TIME ON THE BASIC CHEMICAL COMPOSITION OF DRIED LEAVES OF SOME BUCKWHEAT CULTIVARS**
E. Pisulewska, Agricultural University of Cracow, Poland
- PO2742 INCREASE IN HIPPOCAMPAL LONG-TERM POTENTIATION RESPONSE BY 2'-FUCOSYLLACTOSE AFTER SHORT OR LONG TERM FEEDING IN RODENTS**
E. Vazquez, Discovery R&D, Abbott Nutrition, Granada, Spain
- PO2743 ORALLY GIVEN 2'-FUCOSYLLACTOSE BUT NOT FUCOSE INDUCES AN INCREASE OF THE HIPPOCAMPAL LONG-TERM POTENTIATION RESPONSE IN CONSCIOUS RATS**
E. Vazquez, Discovery R&D, Abbott Nutrition, Granada, Spain
- PO2744 PHOSPHORUS BALANCE AFTER MODEL MAILLARD REACTION PRODUCTS CONSUMPTION IN YOUNG AND ADULT RATS**
C. Delgado-Andrade, Instituto de Nutricion Animal, EEZ, Consejo Superior de Investigaciones Cientificas (CSIC), Armilla, Granada, Spain
- PO2745 BACTERIAL CELL WALL COMPONENTS AND PROBIOTIC STRAINS INDUCE ALTERATIONS IN DNA METHYLATION OF TNF AND TLR4 IN HUMAN INTESTINAL EPITHELIAL CELLS**
D. Kremenovic, Dep. Nutritional Research, University of Vienna, Vienna, Austria
- PO2746 EFFECTS OF ADVANCED GLYCATION COMPOUNDS FROM BREAD CRUST ON IRON METABOLISM AND TISSUE DISTRIBUTION**
C. Delgado-Andrade, Instituto de Nutricion Animal, Estacion Experimental Del Zaidin, CSIC, Spain
- PO2747 POTENTIAL DIETARY HEALTH BENEFITS OF THE UNEXPLOITED SEEDS OF SOME SPECIES FROM THE FLORA OF TUNISIA**
N. Nasri, Department of Biology, Faculty of Sciences of Tunis, University of Tunis-El Manar, Tunisia
- PO2748 GLYCEMIC INDEX OF FONIO (DIGITARIA EXILIS) COUSCOUS WITH OKRA (ABELMONSCHUS ESCULENTUS) AND WHITE BREAD CONSUMED WITH CASHEW NUTS (ANACARDIUM OCCIDENTALE)**
A.T. Guir, Laboratoire De Nutrition, Departement De Biologie Animale, Faculte Des Sciences Et Techniques, Universite Cheikh Anta Diop (UCAD) De Dakar, Senegal
- PO2749 SIALIC ACIDS IN HUMAN MILK: IN VITRO ACCESSIBILITY STUDY**
L. Claumarchirant, Nutrition and Food Chemistry, Faculty of Pharmacy, University of Valencia, Spain
- PO2750 BULGARIAN MEDICINAL PLANTS WITH A POTENTIAL TO IMPROVE LIPID PROFILE IN HEALTHY VOLUNTEERS**
M. Nashar, Department of Biochemistry, Molecular Medicine and Nutrigenomics, Medical University Varna, Bulgaria
- PO2751 EFFECT OF SOY ISOFLAVONE, INULIN CALCIUM AND VIT D3 IN THE TREATMENT OF POST-MENOPAUSAL HOT FLUSHES: A CONTROLLED OBSERVATIONAL STUDY**
F. Parazzini, Obs Gyn Dep. University of Milan, Milan, Italy
- PO2752 PHENOLIC CONTENT AND ANTIOXIDANT ACTIVITY OF RAW AND PROCESSED ROOTS AND TUBER CROPS**
A. Chandrasekara, Department of Applied Nutrition, Wayamba University of Sri Lanka, Makandura, Gonawila, Sri Lanka
- PO2754 MUCILAGE OF OPUNTIA STREPTACANTHA: DIETARY FIBER WITH POTENTIAL PREBIOTIC**
E.G. Ramos-Ramirez, Department of Biotechnology and Bioengineering, CINVESTAV-IPN, Mexico City, Mexico
- PO2755 EFFECTS OF SPICE INGREDIENTS ON APOLIPOPROTEIN B48 BY CACO-2 INTESTINAL CELL LINE**
K. Tomishige, Department of Human Life Science, Jissen Women's University, Tokyo, Japan

- PO2756 NATURALLY OCCURRING SPHINGOID BASES REGULATE EXPRESSION OF GENES ENCODING MEDIATORS OF FILAGGRIN DEGRADATION TO NATURAL MOISTURIZING FACTORS IN HUMAN KERATINOCYTES**
T. Hasegawa, Shiseido Functional Food Research & Development Center, Yokohama, Japan
- PO2757 CATECHIN INCREASES THE SEROTONIN RELEASE IN THE RAT HIPPOCAMPUS**
A. Nishimori, Faculty of Nutrition Sciences, Nakamura Gakuen University, Fukuoka, Japan
- PO2758 DIOSCOREA JAPONICA EXTRACT SUPPRESSES THE EXPRESSION OF THE RELATED ENZYMES SYNTHESIZING LIPID MEDIATOR PROSTAGLANDIN E2**
I. Tsukayama, Department of Nutritional Science, Okayama Prefectural University, Soja, Japan
- PO2759 AMELIORATING EFFECTS OF GREEN TEA ON THE DIABETES-INDUCED OXIDATIVE STRESS**
A. Nishimori, Faculty of Nutrition Sciences, Nakamura Gakuen University, Fukuoka, Japan
- PO2760 INHIBITORY EFFECTS OF ETHYLACETATE-FRACTION FROM SASA BOREALIS ON ADIPOCYTE DIFFERENTIATION**
H S. Park, Plant Plant Resources Research Institute, Duksung Women's University, Seoul, Republic Korea
- PO2761 ACUTE EFFECTS OF CHLOROGENIC ACID ON NITRIC OXIDE STATUS, ENDOTHELIAL FUNCTION AND BLOOD PRESSURE IN HEALTHY VOLUNTEERS: A RANDOMISED TRIAL**
C. Bondonno, School of Medicine and Pharmacology, University of Western Australia, Perth, WA, Australia
- PO2762 PROTECTIVE EFFECTS OF KOREAN RED GINSENG AGAINST ALCOHOL-INDUCED FATTY LIVER IN RATS**
H J. Lee, Department of Nutritional Science and Food Management, Ewha Womans University, Seoul, Republic of Korea
- PO2763 QUANTITATION OF GLUCOSINOLATES IN BRASSICACEAE VEGETABLES SOLD IN LATE AUTUMN AND WINTER IN JAPAN**
S. Osada, Department of Food and Nutrition, Junior College of Nutrition University, Tokyo, Japan
- PO2764 EFFECT OF THIOSULFINATES DERIVED FROM TEARLESS ONION MODEL ON LIPID METABOLISM IN MICE**
M. Kato, Somatech Center, House Foods Corporation, Yotsukaido, Chiba, Japan
- PO2765 INTRAGASTRIC ADMINISTRATION OF ALLYL ISOTHIOCYANATE INCREASES CARBOHYDRATE OXIDATION VIA TRPV1 BUT NOT TRPA1 IN MICE**
N. Mori, Department of Food Science and Nutrition, School of Human Cultures, University of Shiga Prefecture, Shiga, Japan
- PO2766 PREVENTIVE MECHANISMS OF GLUCOSE INTOLERANCE AND OBESITY BY CACAO LIQUOR PROCYANIDIN EXTRACT**
H. Ashida, Department of Agrobioscience, Kobe University, Kobe, Japan
- PO2767 4-HYDROXYDERRICIN AND XANTHOANGELOL FROM ASHITABA (ANGELICA KEISKEI) SUPPRESS DIFFERENTIATION OF PREADIPOCYTES TO ADIPOCYTES VIA AMPK AND MAPK PATHWAYS**
T. Zhang, Department of Agrobioscience, Kobe University, Kobe, Japan
- PO2768 INFLUENCE OF ADMINISTRATION OF WHEY PROTEIN CONCENTRATE IN DIABETIC RATS**
C. Nishimura, Ochanomizu University Human Life and Environmental Sciences Nutrition and Food Science, Japan
- PO2769 THE ANTI-ATHEROGENIC ACTIVITIES OF PERILLA FRUTESCENS**
E. Saita, Institute of Environmental Science For Human Life, Ochanomizu University, Tokyo, Japan
- PO2770 THE EFFECTS OF GREEN TEA CATECHIN ON LDL OXIDATION AND ENDOTHELIAL FUNCTION IN HEALTHY SUBJECTS**
N. Sugihara, YInstitute of Environmental Science For Human Life, Ochanomizu University, Tokyo, Japan
- PO2771 EFFECT OF NANNOCHLOROPSIS OCULATA LIPID EXTRACT SUPPLEMENTATION ON LIPID METABOLISM IN EXPERIMENTAL MICE**
N M. Ibrahim, Dept of Nutrition & Dietetics, Universiti Putra Malaysia, Serdang, Selangor, Malaysia
- PO2772 EFFECTS OF LYCHEE FRUITS POLYPHENOL ON ENDOTHELIAL FUNCTION AFTER GLUCOSE TOLERANCE IN HEALTHY SUBJECTS**
Y. Kishimoto, Institute of Environmental Science for Human Life, Ochanomizu University, Tokyo, Japan
- PO2773 EFFECTS OF ORAL INTAKE OF LACTOBACILLUS CORYNIFORMIS CECT5711 ON IMMUNE PARAMETERS IN ADULTS SUFFERING OLIVE POLLEN ALLERGY. A PILOT STUDY**
J A. Maldonado, Nutrition Department, Biosearch S.A., Granada, Spain
- PO2774 LACTOBACILLUS PARACASEI CNCM I-4034, A NOVEL STRAIN ISOLATED FROM BREAST-FED NEWBORNS, MODULATES PATHOGEN-INDUCED INFLAMMATION IN A NOVEL TRANSWELL CO-CULTURE MODEL**
M. Bermudez-Brito, Department Biochemistry & Molecular Biology II, Institute of Nutrition & Food Technology, University of Granada, Armilla, Granada, Spain "Jose Mataix", University of Granada, Granada, Spain
- PO2775 NEW LIPOSOMAL FORMULATIONS OF EVOO PHENOLIC EXTRACT: BIOAVAILABILITY AND POTENTIAL CYTOTOXIC EFFECTS ON HUMAN BREAST CANCER CELLS**
J. Lozano-Sanchez, Functional Food Research and Development Center (CIDAF), Granada, Spain
- PO2776 METABOLIC PROFILING OF THREE VARIETIES OF LETTUCE BY REVERSED-PHASE ULTRA-PERFORMANCE LIQUID CHROMATOGRAPHY COUPLED TO ELECTROSPRAY IONIZATION-QUADRUPOLE-TIME-OF-FLIGHT MASS SPECTROMETRY**
I M. Abu-Reidah, Department of Analytical Chemistry, Faculty of Sciences, University of Granada, Granada, Spain
- PO2777 IDENTIFICATION OF POLYPHENOLS AND THEIR METABOLITES IN HUMAN URINARY EXCRETION AFTER CONSUMPTION OF CRANBERRY SYRUP**
I. Iswaldi, Department of Analytical Chemistry, Faculty of Sciences, University of Granada, Granada, Spain
- PO2778 HEPATOPROTECTIVE EFFECTS OF EXTRACTS FROM PEPPERMINT, LEMON BALM AND ROSEMARY IN LAMIACEAE PLANTS**
S. Hironaka, Department of Chemistry and Life Science, Nihon University, Fujisawa-shi, Kanagawa, Japan
- PO2779 IN VIVO EVALUATION OF THE REDUCED ALLERGENICITY OF DEAMIDATED WHEAT GLIADIN**
S. Shimizu, Department of Chemistry and Life Science, Nihon University, Fujisawa-shi, Kanagawa, Japan
- PO2780 THE SYNERGIC EFFECT OF DAIDZEIN AND KIWIFRUIT ON BONE LOSS AND EQUOL PRODUCTION IN OVARECTOMISED RATS.**
Y. Tousen, Department of Food Function and Labeling, National Institute of Health and Nutrition, Tokyo, Japan
- PO2781 EFFECTS OF ARTEMISIA CAPILLARIS ON THE DISORDERS OF HEPATIC FUNCTIONS AND LIPID METABOLISM IN RATS TREATED WITH 2,3,7,8- TETRACHLORODIBENZO-P-DIOXIN**
J H. Lee, University of Chungnam National, South Korea
- PO2782 ORANGE AND PEACH-APPLE FRUIT JUICES REDUCE CARDIOVASCULAR RISK IN MODERATELY HYPER- AND NORMO-CHOLESTEROLAEMIC IRON DEFICIENT WOMEN**
R. Blanco-Rojo, Department of Metabolism and Nutrition, Institute of Food Science, Technology and Nutrition (ICTAN), Spanish National Research Council (CSIC), Spain
- PO2783 INTAKE OF AN IRON OR IRON AND VITAMIN D-FORTIFIED SKIMMED MILK AND IRON METABOLISM IN WOMEN**
L. Toxqui, Department of Metabolism and Nutrition, Institute of Food Science, Technology and Nutrition (ICTAN), Spanish National Research Council (CSIC), Spain

- PO2784 CHANGES IN BONE REMODELLING IN IRON-DEFICIENT WOMEN BY THE CONSUMPTION OF AN IRON OR IRON AND VITAMIN D-FORTIFIED SKIMMED MILKS**
L. Toxqui, Department of Metabolism and Nutrition, Institute of Food Science, Technology and Nutrition (ICTAN), Spanish National Research Council (CSIC), Spain
- PO2785 LACTOBACILLUS RHAMNOSUS CNCM I-4036 DECREASES INFLAMMATORY CYTOKINE RELEASE IN HUMAN INTESTINAL EPITHELIAL CELLS CHALLENGED WITH SALMONELLA TYPHI**
S. Muñoz Quezada, Dept. Biochemistry & Molecular Biology II, School of Pharmacy, Granada, Spain
- PO2786 ANIOXIDANT EFFECT OF BREAD USING BLACK RICE (ORYZA SATIVA L. JAPONICA VAR. SBR)**
M. Hiemori-Kondo, Department of Food Science and Nutrition, Tokushima Bunri University, Tokushima, Japan
- PO2787 THE INFLUENCE OF DIET WITH ELDERBERRY FRUITS ON MORPHOLOGICAL PARAMETERS IN SERUM OF RATS OVER INTOXICATION WITH LEAD**
E. Piatkowska, Department of Human Nutrition, Agricultural University of Krakow, Krakow, Poland
- PO2788 CONTENT OF TOTAL POLYPHENOLS AND ANTIOXIDANT ACTIVITY OF INFUSIONS FROM SOME VARIETIES OF DRIED BUCKWHEAT'S LEAVES**
E. Piatkowska, Department of Human Nutrition, Agricultural University of Krakow, Krakow, Poland
- PO2789 THE EFFECT OF SELECTED BIOACTIVE FOOD COMPOUNDS IMPLEMENTATION IN LONG-TERM DIETETIC THERAPY IN PATIENTS WITH OBESITY**
A. Kostrzewa - Tarnowska, Department of Human Nutrition and Hygiene, Poznan University of Life Sciences, Poland
- PO2790 ANTIOXIDANT PROPERTIES OF BLACK ELDERBERRY (SAMBUCUS NIGRA L.) AND SEA BUCKTHORN (HIPPOPHAE RHAMNOIDES L.) FRUITS**
B. Borczak, Department of Human Nutrition, Agricultural University in Krakow, Poland
- PO2791 THE INFLUENCE OF DIET WITH AN ADDITION OF ELDERBERRY FRUITS AND LEAD ON SELECTED BIOCHEMICAL PARAMETERS IN SERUM OF RATS**
A. Kopeć, Department of Human Nutrition, Agricultural University in Krakow, Poland
- PO2792 COOKING EFFECT ON OXALATE CONTENT IN MALAYSIAN SOY BASED DISHES**
G. Shimi, Nutritional Sciences Programme, School of Health Care, Faculty of Health Sciences, Universiti Kebangsaan Malaysia, Jalan Raja Muda Abdul Aziz, Kuala Lumpur, Malaysia
- PO2793 UHPLC-ESI-QTOF-MS TO IDENTIFY PHENOLIC COMPOUNDS FROM A GRAPE (VITIS VINIFERA) SEED EXTRACT**
M^a L. Cadiz Gurrea, Department of Analytical Chemistry, University of Granada, Granada, Spain
- PO2794 PROTECTIVE EFFECTS OF A COMBINATION OF CITRUS AND ROSEMARY EXTRACTS ON UV-INDUCED DAMAGE IN HUMAN KERATINOCYTES**
A. Perez-Sanchez, Institute of Molecular and Cell Biology, Miguel Hernandez University, Elche, Alicante, Spain
- PO2795 PHENOLIC COMPOUNDS IN ROSMARINUS OFFICINALIS L. EXTRACTS AND ANTIOXIDANT ACTIVITIES**
M. Bellumori, Department of NEUROFARBA, Division of Pharmaceutical and Nutraceutical, University of Florence, Sesto Fiorentino, Florence, Italy
- PO2796 HIGH-DOSE MUSHROOM INCREASES HEPATIC ACCUMULATION OF TRIACYLGLYCEROL IN RATS FED WITH HIGH-FAT DIET**
D. Handayani, Nutrition Department-Faculty of Medicine, University of Brawijaya, Malang, East Java, Indonesia
- PO2797 EFFECT OF IMMEDIATE INTAKE AND SUPPLEMENTATION FOR 6 DAYS WITH BLUEBERRIES ON GLYCEMIA, INSULINEMIA AND REDOX STATUS IN HEALTHY SUBJECTS**
X. Palma Molina, Departamento de Nutrición y Alimentos, Universidad de Valparaíso, Valparaíso, Chile
- PO2798 RESTRUCTURED SQUID-SURIMI ENRICHED IN GLUCOMANNAN IMPROVES THE ANTIOXIDANT STATUS IN OBESE ZUCKER RATS**
M. Vazquez-Velasco, Dep. Nutrición y Bromatología I (Nutrición), Facultad de Farmacia, Universidad Complutense de Madrid, Madrid, Spain
- PO2799 IMPROVEMENT OF IN VITRO AND IN VIVO ANTIOXIDANT CAPACITY OF COWPEA (VIGNA UNGUICULATA) BY NATURAL OR CONTROLLED FERMENTATION PROCESS**
R. Martínez, Department of Physiology, School of Pharmacy, Institute of Food Science and Technology, University of Granada, Granada, Spain
- PO2800 EFFECT OF DIFFERENT CONCENTRATIONS OF PROTEINS IN A SOLUBLE HIGH FIBER FOOD ON THE SHORT-TERM SATIETY IN HEALTHY YOUNG ADULTS**
M. Oliveri, Departamento de Nutrición y Alimentos, Universidad de Valparaíso, Valparaíso, Chile
- PO2802 A NON-BITTER BITTER GOURD DRINK IS READY TO BE TESTED ON HUMANS IN A BLINDED STUDY**
S. D. Habicht, AVRDC - The World Vegetable Center, Shanhua, Tainan, Taiwan
- PO2804 OYSTER MUSHROOM (PLEUROTUS OSTREATUS) DECREASES BLOOD CHOLESTEROL LEVELS IN DIET-INDUCED HYPERCHOLESTEROLEMIA MICE**
V. Cáz, Experimental Surgery, La Paz Hospital, Madrid, Spain
- PO2805 DETERMINATION OF ANTIOXIDANT POTENTIAL OF SOME TRADITIONAL NON -ALCOHOLIC BEVERAGES IN BOSNIA AND HERZEGOVINA**
J. Djedjibegovic, Department of Pharmaceutical analysis, Faculty of Pharmacy/University of Sarajevo, Sarajevo, Bosnia and Herzegovina
- PO2806 PHYTOSTEROLS OXIDES IN FUNCTIONAL BEVERAGES: MATRIX AND STORAGE INFLUENCE**
M. Gonzalez-Larena, Facultat De Farmàcia, Universitat De València, València, Spain
- PO2808 FOOD COMPONENTS WITH EC CLAIMS RELATED TO CORONARY HEART DISEASE SUMMARISED IN A ROUND TABLE MODEL**
M. Ashwell, Ashwell Associates, Ashwell St, Ashwell, Hertfordshire, UK
- PO2809 IN VITRO POTENTIAL PROPERTIES OF CONVENTIONAL AND HERBAL TEAS AGAINST KEY ENZYMES RELEVANT TO ALZHEIMER'S DISEASE**
U. Suttisansanee, Institute of Nutrition, Mahidol University, Phutthamonthon, Nakhon Pathom, Thailand
- PO2810 PHENOLIC PROFILE AND CYTOTOXIC ACTIVITY OF PLANTAGO HOLOSTEUM SCOP.**
I. Beara, Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Sciences, Novi Sad, Serbia
- PO2811 COUNTERACTION OF OXIDATIVE DAMAGE BY POMEGRANATE JUICE. INFLUENCE OF THE CULTIVAR**
M. Di Nunzio, Interdepartmental Centre for Industrial Agri-Food Research, University of Bologna, Cesena, Italy
- PO2812 NATURAL POLYPHENOLS FROM RED PROPOLIS ATTENUATE ANGIOGENESIS IN ATHEROSCLEROSIS**
J. Daleprane, Department of Basic and Experimental Nutrition, Institute of Nutrition, State University of Rio de Janeiro, Brazil

- PO2813 ANTIPROLIFERATIVE ACTIVITY OF BUTTERMILK, MILK FAT GLOBULE MEMBRANE AND ISOLATED LIPID FRACTIONS ON TEN HUMAN CANCER CELL LINES**
P. Castro-Gomez, Instituto de Investigacion en Ciencias de la Alimentacion (CIAL, CSIC-UAM), Bioactividad y Analisis de los Alimentos, Madrid, Spain
- PO2814 BIOACTIVE FATTY ACIDS OF PUFA-ENRICHED BUTTERS FROM THE PARMIGIANO REGGIANO CHEESE AREA, AND COMPARISON WITH SOME EUROPEAN COMMERCIAL BRANDS**
E. Guerra, Department of Agricultural and Food Sciences (DISTAL), University of Bologna, Cesena, Italy
- PO2815 CHEESE WHEY PROTEINS AND THEIR HYDROLYSATES AS DIETARY SUPPLEMENT TO AGED RATS: MUSCLE PROTEIN, BONE CALCIUM AND BIOCHEMICAL PARAMETERS ANALYSIS**
A J. Goulart, Faculdade de Ciências Farmacêuticas - UNESP Univ Estadual Paulista, Brazil
- PO2816 ORAL ABSORPTION OF RUMENIC, VACENIC AND ALFA-LINOLENIC ACID AFTER DIETARY INTAKE OF MILK FAT NATURALLY ENRICHED IN PUFA**
L M. Rodriguez-Alcala, Instituto de Investigacion en Ciencias de la Alimentacion (CIAL, CSIC-UAM), Bioactividad y Analisis de los Alimentos, Madrid, Spain
- PO2817 EVALUATION "IN VITRO" AND "IN VIVO" OF THE ANTIOXIDANT CAPACITY OF THE BOVINE CHEESE WHEY PROTEINS AND THEIR HYDROLYZATES**
J C. Bassan, Faculdade De Ciências Farmacêuticas, UNESP Univ Estadual Paulista, São Paulo, Brazil
- PO2818 PRODUCTION OF MARGARINE AND SOYA/SUNFLOWER OIL WITH LYOPHILIZED TOMATO PEEL POWDER AS A NATURAL ADDITIVE**
Z. Sofiane, Food technology Department Faculty of engineering science, Boumerdes University Boumerdes, Algeria
- PO2819 A METABOLITE PROFILING APPROACH ALLOWS THE CHARACTERIZATION AND CLASSIFICATION OF THREE COMMERCIAL VARIETIES OF CUCUMIS MELO**
C. Rodriguez-Perez, Department of Analytical Chemistry, Faculty of Sciences, University of Granada, Granada, Spain
- PO2820 ANGIOTENSIN I-CONVERTING ENZYME INHIBITORY AND ANTIOXIDANT PEPTIDES FROM SALMON PROTEINS OBTAINED VIA HYDROLYSIS AND DIGESTION**
M. Darewicz, Department of Food Biochemistry, University of Warmia and Mazury, Olsztyn, Poland
- PO2821 EFFECTS OF STARCH ON THE ANTIOXIDANT CAPACITY OF GUARANA POWDER (PAULLINIA CUPANA) UNDER CONDITIONS OF IN VITRO DIGESTION**
T M N. Mendes, Department of Nutrition, School of Public Health, University of São Paulo (USP), Sao Paulo, Sao Paulo, Brazil
- PO2822 CITRUS FLAVONOIDS INHIBIT LDL OXIDATION AND MONOCYTE ADHESION IN ENDOTHELIAL CELLS**
M. Tani, Ochanomizu University, Japan
- PO2823 EVALUATION OF ESSENTIAL OIL-DERIVED COMPONENTS FOR PREVENTION OF LIFESTYLE-RELATED DISEASES TARGETED TO COX-2 AND PPAR**
H. Inoue, Department of Food Science and Nutrition, Nara Women's University, Japan
- PO2824 COOPERATIVE EFFECTS OF SOY ISOFLAVONES AND CAROTENOIDS ON OSTEOCLAST FORMATION**
M. Tadaishi, Department of Food Function and Labeling, National Institute of Health and Nutrition, Tokyo, Japan
- PO2825 HYDROLYZABLE TANNINS IN THE LEAF EXTRACT OF EUCALYPTUS GLOBULUS SUPPRESS FRUCTOSE ABSORPTION IN THE CACO-2 CELL LINE**
K. Sugimoto, Research and Development Center, Nagaoka Perfumery Co., Ltd, Japan
- PO2826 SUBCELLULAR LOCALIZATION OF MIRACULIN AND ITS FUNCTIONAL EXPRESSION IN E.COLI**
A. Takai, Department of Food Science and Nutrition, Nara Women's University, Nara, Japan
- PO2827 MOLECULAR MECHANISM OF PPAR α ACTIVATION BY RESVERATROL**
Y. Takizawa, Department of Food Science and Nutrition, Nara Women's University, Nara, Japan
- PO2828 COOKING PROCESS DECREASES IODINE CONTENT BUT INCREASES PHENOLIC COMPOUNDS IN IODINE SUPPLEMENTED CARROTS**
J. Kapusta-Duch, Department of Human Nutrition, Agricultural University in Krakow, Krakow, Poland
- PO2829 CHEMICAL COMPOSITION OF WHOLE, HUSKED GRAIN AND HUSK OF SELECTED VARIETIES OF BUCKWHEAT**
A. Kopecká, Department of Human Nutrition, Agricultural University in Krakow, Krakow, Poland
- PO2830 EFFECTS OF FERMENTED SOY FOOD CONTAINING S-EQUOL (SE5-OH) ON BONE LOSS, BLOOD FLOW, AND MAMMARY ESTRADIOL LEVELS IN OVARECTOMIZED RATS**
T. Ueno, Otsuka Pharmaceutical Co., Ltd., Saga Nutraceuticals Research Institute, Saga, Japan
- PO2831 REDUCED LIPID PEROXIDATION IN THE HEART OF DATE SEED POWDER FED RATS**
W. Ibrahim, Department of Nutrition and Health, College of Food and Agriculture, UAE University, Al Ain, United Arab Emirates
- PO2832 EFFECTS OF ORIENTAL PLUM EXTRACT ON THE COGNITIVE FUNCTION AND NEURODEGENERATION-RELATED PROTEIN EXPRESSION IN DIET INDUCED TYPE 2 DIABETIC RATS**
H. Liao, School of Nutrition and Health Sciences, Taipei Medical University, Taipei, Taiwan
- PO2833 EXPERIMENTAL OBSERVATIONS OF ANTI-DIABETIC ACTIVITY OF ZINC COMPLEXES WITH THEANINE**
N. Kajiwarra, Department of Health, Sports and Nutrition, Faculty of Health and Welfare, Kobe Women's University, Kobe, Japan
- PO2834 EFFECTS OF DIETARY LACTOBACILLUS GASSERI SBT2055 ON GLUCOSE METABOLISM IN RATS**
M. Sato, Department of Bioscience and Biotechnology, Faculty of Agriculture, Graduate School of Kyushu University, Fukuoka, Japan
- PO2835 SYNTHESIS OF FOLATE BY KEFIR STARTER CULTURE**
E. Gujska, Department of Food Science, University of Warmia and Mazury, Olsztyn, Poland
- PO2836 FOLATE CONTENT IN DIFFERENT BRANDS OF BEER**
E. Gujska, Department of Food Science, University of Warmia and Mazury, Olsztyn, Poland
- PO2837 EFFECTS OF LUPINUS ALBUS PROTEIN HYDROLYZATE AND INSOLUBLE FIBER IN A DIET-INDUCED HYPERCHOLESTEROLEMIC MODEL LIVER AND COLON HISTOLOGICAL EXAMINATION**
G. Kapravelou, Department of Physiology, University of Granada, Granada, Spain
- PO2838 ENZYMATIC ASSAY FOR THEANINE USING γ -GLUTAMYLTRANSEPTIDASE AND AMINE DEHYDROGENASE**
M. Wakayama, Department of Biotechnology, College of Life Sciences, Ritsumeikan University, Kusatsu, Shiga, Japan
- PO2839 EFFECTS OF SOYBEAN SOLUBLE POLYSACCHARIDE DERIVED FROM "OKARA" ON JAPANESE WOMEN WITH CONSTIPATION**
Y. Asano, Faculty of Health Science, KIO University, Japan
- PO2841 IMPROVEMENT OF LIPID METABOLISM AND LIFE SPAN BY RESVERATROL VIA PPAR α ACTIVATION**
R. Nakata, Department of Food Science and Nutrition, Nara Women's University, Nara, Japan

- PO2842 REDUCTION IN MYELOPEROXIDASE LEVELS AFTER CONSUMPTION OF READY-TO-EAT MEALS SUPPLEMENTED WITH COCOA EXTRACT WITHIN A HYPOCALORIC DIET**
I. Ibero-Baraibar, Department of Nutrition, Food Science and Physiology, University of Navarra, Spain
- PO2843 EFFECTS OF CONSUMING CHEESE NATURALLY ENRICHED IN PUFAS ON BODY COMPOSITION IN OVERWEIGHT AND OBESE DYSLIPIDEMIC PEOPLE**
B. Lopez-Plaza, Department of Clinical Nutrition and Dietetic, Hospital La Paz Institute for Health Research (IdiPAZ), Nutrition and Functional Foods Research Group (NUTRINVEST), Madrid, Spain
- PO2844 SEARCH FOR FOODS WITH DPP-4-INHIBITORY ACTIVITY**
M. Tashiro, School of Human Environmental Sciences, Mukogawa Women's University, Nishinomiya, Hyogo, Japan
- PO2845 CYTOTOXIC EFFECT OF AQUEOUS EXTRACTS OF SAFFRON FLORAL BIO-RESIDUES**
J. Serrano-Diaz, Catedra de Quimica Agricola, ETSI Agronomos, Universidad de Castilla-La Mancha, Campus Universitario, Albacete, Spain
- PO2846 A COMPARATIVE STUDY ON FUNCTIONAL FOOD REGULATION BETWEEN CHINA AND THE EUROPEAN UNION**
Y. Yang, Department of Food Nutrition Assessment, Institute of Nutrition and Food Safety, Chinese Center For Disease Control and Prevention, China
- PO2847 NEW SPL ON PHYTONUTRIENTS AND FUNCTIONAL FOOD REGULATION IN CHINA**
Y. Yang, Institute of Nutrition and Food Safety, Chinese CDC, China
- PO2848 BIOACTIVE FATTY ACIDS ANALYSIS ON DAIRY PRODUCTS BY FAST-GAS CHROMATOGRAPHY: A COMPARATIVE APPROACH BETWEEN TWO HIGHLY POLAR CAPILLARY COLUMNS**
A. Gori, Department of Agricultural and Food Sciences (DISTAL), University of Bologna, Italy
- PO2849 PHLORETIN SUPPRESSES THROMBIN-MEDIATED INTERACTIONS AMONG ENDOTHELIAL CELLS, MONOCYTES AND PLATELETS**
Y H. Kang, Department of Food and Nutrition, Hallym University, Chuncheon, Korea
- PO2850 OLEANOLIC ACID SUPPRESSES VSFATIN INDUCTION VIA DISTURBING TRAF6-NF- κ B SIGNALING OF ADIPOCYTES**
Y H. Kang, Department of Food and Nutrition, Hallym University, Chuncheon, Korea
- PO2851 EVALUATION OF ANTIOXIDANTS AND ANTIMICROBIAL ACTIVITIES OF A MIXTURE OF POLYPHENOLS EXTRACTED FROM TEA, MINT AND LEMON LEAVES IN VITRO**
K. Marouani, High School of Health Sciences Tunis EL Manar University, Tunisia
- PO2852 CHANGE IN CARBOHYDRATE COMPOSITION OF FRESH YACON (SMALLANTHUS SONCHIFOLIUS) ROOTS DURING STORAGE**
M. Scheid, Department of Food Science, School of Food Engineering, University of Campinas(UNICAMP), Campinas, São Paulo, Brazil
- PO2853 DOES THE LACTIC ACID BACTERIA FERMENTATION PLAYS A SIGNIFICANT ROLE ON TOFU PHENOLIC COMPOUNDS COMPOSITION?**
Y. Riciputi, Inter-departmental Center of Industrial Agri-Food Research, University of Bologna, Cesena, Italy
- PO2854 PERSIMMON JUICE AS A SOURCE OF BIOACTIVE COMPOUNDS**
C. Jimenez-Sanchez, Department of Analytical Chemistry, University of Granada, Granada, Spain
- PO2855 FUNCTIONAL FOOD RESEARCH AND DEVELOPMENT CENTRE (CIDAF), HEALTH SCIENCE TECHNOLOGICAL PARK, AVDA. DEL CONOCIMIENTO S/N 18016 GRANADA, SPAIN**
C. Jimenez-Sanchez, Department of Analytical Chemistry, University of Granada, Granada, Spain
- PO2856 IDENTIFICATION OF BIOACTIVE COMPOUNDS IN FOUR ASPARAGUS VARIETIES THROUGH AN INTELLIGENT BUCKETING ALGORITHM USING MASS SPECTRA DATA**
C. Jimenez-Sanchez, Department of Analytical Chemistry, University of Granada, Granada, Spain
- PO2857 EFFECTS OF WALNUT CONSUMPTION ON SELECT VASCULAR BIOMARKERS IN HYPERCHOLESTEROLEMIC POSTMENOPAUSAL WOMEN**
R. Hackman, University of California, Davis, Department of Nutrition, USA
- PO2858 ENZYMATIC TREATMENT IN FLOUR RYE AND THE COMPARATIVE STUDY OF ANTIOXIDANT CAPACITY ORAC, WITH AND WITHOUT EDTA**
F. Lima, Department of Food Science, of Food Engineering, University of Campinas, Brazil
- PO2859 SYNERGIC ANTIBACTERIAL BEHAVIOR OF THE MAJOR POLYPHENOLS DERIVED FROM SPANISH CISTUS SPECIES**
L. Tomas Menor, Skin Research Platform (SRP) Instituto de Biologia Molecular y Celular (IBMC), Universidad Miguel Hernandez, Elche, Alicante, Spain
- PO2860 IODINE FORTIFICATION OF FARMED FISH FILLETS: A HEALTHY WAY TO PREVENT IODINE DEFICIENCY**
A. Ramalho, CCMAR, Aquaculture Research Group, University of Algarve, Faro, Portugal
- PO2861 SELENIUM, GERMANIUM AND HEAVY METAL CONTENTS IN REPRESENTATIVE NORTH KOREAN CROP**
H S. Chung, Department of Food and Nutrition, Duksung Womens University, Seoul, Korea
- PO2862 IDENTIFICATION OF CYTOTOXIC EFFECT OF BIBIMBAP ON HUMAN COLON CANCER CELLS**
H S. Chung, of Food and Nutrition, Duksung Women's University, Seoul, Korea
- PO2863 POMEGRANATE SEEDS AS SOURCE OF BIOACTIVE LIPIDS**
V. Verardo, Inter-Departmental Centre for Agri-Food Industrial Research (CIRI Agroalimentare), University of Bologna, Cesena (FC), Italy
- PO2864 ANTIOXIDANT PROPERTIES OF ILEX PARAGUARIENSIS**
M. Erben, Catedra De Toxicologia, Farmacologia Y Bioquimica Legal, Facultad De Bioquimica Y Ciencias Biologicas, Universidad Nacional Del Litoral, Santa Fe, Argentina
- PO2865 DETERMINATION OF DIFFERENT PHENOLIC COMPOUND CLASSES IN POMEGRANATE JUICES BY HPLC-DAD-ESI-QTOF-MS**
A M. Gomez-Caravaca, Department of Analytical Chemistry, University of Granada, Granada, Spain
- PO2866 DISTRIBUTION OF FENOLIC COMPOUNDS AND OTHER POLAR COMPOUNDS IN SOLANUM TUBEROSUM L AND STUDY OF THEIR ANTIOXIDANT ACTIVITY**
A. Lopez-Cobo, Department of Analytical Chemistry, University of Granada, Granada, Spain
- PO2867 PRODUCTION OF SWEET LOW-LACTOSE YOGURT**
M. Blazic, Karlovac University of Applied Sciences, Croatia
- PO2868 INTERACTION BETWEEN PROBIOTIC AND STARTER STRAINS INVOLVED IN THE ELABORATION OF FERMENTED GOAT'S MILK**
T. Bergillos-Meca, Department of Nutrition and Food Sciences, University of Granada, Spain
- PO2869 OLEUROPEIN IMPROVES GLUCOSE TOLERANCE OF HIGH-FAT INDUCED OBESE MICE**
Y. Fujiwara, Department of Nutrition and Food Science, Life Sciences, Graduate School of Humanities and Sciences, Ochanomizu University, Tokyo, Japan

- PO2870 EFFECT OF SHIMOTSUTO (SI-WU-TANG; CHINESE HERBAL MEDICINE TRADITIONALLY USED IN JAPAN) WITH/ WITHOUT IRON ADMINISTRATION ON IRON DEFICIENT RATS**
S. Shinoda, Graduate School of Human Health Sciences, Tokyo Metropolitan University, Japan
- PO2871 LEAF EXTRACT OF DIETAY BLUEBERRY (VACCINIUM ASHEI READ) PREVENTS FATTY LIVER IN OB/OB MICE**
S. Nishizono, Faculty of Biotechnology and Life Science, Sojo University, Kumamoto, Japan
- PO2872 PHYSICO-CHEMICAL PROPERTIES OF PLUKENETIA VOLUBILIS L. SEEDS AND OXIDATIVE STABILITY OF COLD-PRESSED OIL (GREEN NUT OIL)**
T. Emiko, Graduate School of Human Life Sciences, Showa Women's University, Tokyo, Japan
- PO2873 TOTAL IRON AND HEME IRON CONTENT OF SOUTH AFRICAN LEAN MEAT (BEEF, LAMB, PORK AND CHICKEN)**
B. Pretorius, Institute of Food Nutrition and Well-Being, University of Pretoria, South Africa
- PO2874 FATTY ACID PROFILE OF SOUTH AFRICAN LAMB AND MUTTON**
H C. Schönfeldt, Institute of Food Nutrition and Well-Being, University of Pretoria, South Africa
- PO2875 SECONDARY METABOLITES FROM RUMEX BALCANICUS RECH. HERB AND ROOT EXTRACTS AS POTENTIAL ANTI-INFLAMMATORY AGENTS**
E. Svircev, Department of chemistry, biochemistry and environmental protection, University of Novi Sad Faculty of Sciences, Novi Sad, Serbia
- PO2876 ANTI-INFLAMMATORY PROPERTY AND PHENOLIC PROFILE OF JUNIPERUS COMMUNIS L. 1753 VAR. COMMUNIS NEEDLES AND CONES EXTRACTS**
M. Lesjak, Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Sciences, University of Novi Sad, Serbia
- PO2877 PROANTHOCYANIDIN OLIGOMER CONTENT IN DIFFERENT BARLEY VARIETIES**
F. Pasini, Department of Agro-Food Sciences and Technologies, Alma Mater Studiorum, Università di Bologna, Italy
- PO2878 LS-MS DETERMINATION OF ALLIIN IN SELECTED ALLIUM SPECIES**
D. Orcic, Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Sciences, University of Novi Sad, Serbia
- PO2879 PHYTOCHEMICAL PROFILE AND BIOLOGICAL POTENTIAL OF ALLIUM FUSCUM WALDST. ET KIT VAR. FUSCUM**
N. Simin, Department of Chemistry, Biochemistry and Environmental Protection, Faculty of Sciences, University of Novi Sad, Serbia
- PO2880 THE PROFILE OF POLYPHENOLS AND ANTIOXIDANT CAPACITY OF SELECTED MEDICINAL PLANTS OF BANGLADESH**
N. Shaheen, University of Dhaka, Bangladesh
- PO2881 PROTECTIVE ROLE OF WHEAT PEPTIDES IN A NON-STEROIDAL ANTI-INFLAMMATORY DRUGS INDUCED STOMACH DAMAGE MODEL RATS**
H. Yin, Key Laboratory of Environmental Medicine and Engineering of Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, Nanjing, China
- PO2882 ANTITUMOR ROLRS OF ESSENTIAL OILS FROM CHRYSANTHEMUM MORIFOLIUM RAMAT**
Z. Song, Key Laboratory of Environmental Medicine and Engineering of Ministry of Education, and Department of Nutrition and Food Hygiene, School of Public Health, Southeast University, China
- PO2883 A STUDY ON TOTAL POLYPHENOLS CONTENT IN SPENT COFFEE EXTRACTS (BLACK, ESPRESSO AND FILTER COFFEE)**
M. Ranic, Centre of Research Excellence In Nutrition and Metabolism, Institute For Medical Research, University of Belgrade, Serbia
- PO2884 IDENTIFICATION AND QUANTIFICATION OF PHENOLIC COMPOUNDS BY HPLC-DAD-ESI-TOF-MS IN DIFFERENT VARIETIES OF EGGPLANT GROWN AT DIFFERENT SEASONS**
P. Garcia Salas, Department of Analytical Chemistry, University of Granada, Granada, Spain
- PO2885 DATE FRUIT AND SEED: FIBER, SUGAR, TEXTURE, AND COLOR PROFILES OF EIGHTEEN VARIETIES**
H. Habib, Department of Nutrition and Health, College of Food and Agriculture, United Arab Emirates University, Al Ain, UAE
- PO2886 THE ABSORPTION AND THE FATE OF METABOLISM OF BIOACTIVE DIETARY BENZOXAZINOID IN MAMMALS**
K B. Adhikari, Department of Agroecology, Aarhus University, Slagelse, Denmark
- PO2887 EFFECT OF BIFIDOBACTERIUM ANIMALIS SSP. LACTIS BF-6 (LMG 24384) YOGURT ON COLONIC TRANSIT TIME IN HEALTHY ADULT FEMALES**
D. Merenstein, Department of Family Medicine, Georgetown University Medical Center, Washington, DC, US
- PO2888 APPETITE AND FOOD INTAKE AFTER CONSUMPTION OF SAUSAGES WITH 10% FAT AND ADDED WHEAT OR RYE BRAN**
S. Vuholm, Department of Nutrition, Exercise and Sports, Faculty of Science, University of Copenhagen, Frederiksberg, Denmark
- PO2889 DETERMINATION AND COMPARISON OF PHENOLIC COMPOUNDS IN LEAVES FROM SIX IMPORTANT VARIETIES OF OLEA EUROPAEA L TREES BY HPLC -DAD-TOF-MS**
N. Talhaoui, Department of Analytical Chemistry, University of Granada, Granada, Spain
- PO2890 OXIDATIVE STABILIZATION OF LINSEED OIL BY INDUSTRIAL GRAPE (VITIS VINIFERA, L.) BY-PRODUCTS**
A M. Inarejos Garcia, Research & Development Department, Dulcinea Nutricion SL, Puertollano, Spain
- PO2891 MICROBIOLOGICAL, CHEMICAL AND SENSORY CHARACTERISTICS OF NEWLY DESIGNED SYMBIOTIC FERMENTED BEVERAGES DURING STORAGE**
G. Kunova, Dairy Research Institute Prague, Czech Republic
- PO2892 EFFECTS OF APLYSIN ON THE APOPTOSIS OF HUMAN BREAST CANCER FCM-7 CELL**
H. Liang, The Institution of Human Nutrition, Medical College, Qingdao University, Shandong, China
- PO2893 EFFECTS OF APLYSIN ON THE TUMOR GROWTH AND EXPRESSION OF VEGF AND PCNA IN H22 MICE**
H. Liang, The Institution of Human Nutrition, Medical College, Qingdao University, Shandong, China
- PO2894 UPLC-ESI-Q-TOF-MS FOR CHARACTERIZATION OF PHENOLIC AND OTHER POLAR COMPOUNDS IN LOQUAT (ERIOBOTRYA JAPONICA L.) FRUIT EXTRACT**
A. Morales-Soto, Department of Analytical Chemistry, University of Granada, Granada, Spain
- PO2895 COMPARATIVE STUDY OF ANTIOXIDANT ACTIVITY OF THIRTEEN VEGETABLE SAMPLES CULTIVATED IN ANDALUCIA**
A. Morales-Soto, Department of Analytical Chemistry, University of Granada, Granada, Spain
- PO2896 BIOACTIVE COMPOUNDS IN DEFATTED DABAI PERICARP FOR INHIBITION OF OXIDATIVE STRESS BIOMARKERS IN HYPERCHOLESTEROLEMIC RABBITS**
H E. Khoo, Department of Nutrition and Dietetics, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, UPM Serdang, Selangor, Malaysia
- PO2897 ISOLATION AND CHARACTERIZATION OF EXOPOLYSACCHARIDE PRODUCED BY LACTOBACILLUS REUTERI FY-004**
C Y. Hu, Dept. of Nutrition and Health Science, Fooyin University, Kaohsiung City, Taiwan
- PO2898 CLINICAL ANTI-OBESITY EFFECT BY ADMINISTRATION OF CARNITINE AND SYNEPHRINE CONTAINING DRINK**
Y C. Shen, Chung Shan Medical University, Taichung, Taiwan

- PO2899 COMPARATIVE STUDY OF RESVERATROL, POLYPHENOLIC CONTENT AND RELATIVE ANTIOXIDANT CAPACITY OF ROMANIAN RED WINES**
L. Filip, University of Medicine and Pharmacy 'Iuliu Hatieganu' Cluj-Napoca, Romania
- PO2900 LPS-BINDING CAPACITY OF FRUIT PROANTHOCYANIDINS**
K. Tralma, Department of Nutrition, Faculty of Medicine, University of Chile, Santiago, Chile
- PO2901 ANTIOXIDANT AND PROOXIDANT ACTIVITY OF ESSENTIAL OIL OF GARLIC BY ELECTRON SPIN RESONANCE IN PORK PATTIES**
G. Nieto Martinez, Department of Food Science and Technology, Veterinary Faculty/ University of Murcia, Espinardo, Spain
- PO2902 EFFECT OF THE ADMINISTRATION OF A MILK PRODUCT CONTAINING A HEAT-TREATED PROBIOTIC AND A PREBIOTIC IN PRESCHOOL CHILDREN**
M.L. Mizgier, Institute of Nutrition and Food Technology (INTA), University of Chile
- PO2903 WATERMELON LYCOPENE AGAINST DIET INDUCED HYPERCHOLESTEROLEMIA**
A. Naz, National Institute of Food Science and Technology, University of Agriculture, Faisalabad, Pakistan
- PO2904 CAROTENOID AND POLYPHENOL PROFILES OF CABBAGE AND PLUM VARIETIES AND THEIR CONTRIBUTION TO TOTAL ANTIOXIDANT CAPACITY**
A. Kaulmann, Centre de Recherche Public - Gabriel Lippmann, Environment and Agro-biotechnologies Department, Belvaux, Luxembourg
- PO2905 SETTING UP MODELS FOR STUDYING THE EFFECT OF DIETARY MINERALS ON BIOAVAILABILITY ASPECTS OF CAROTENOIDS**
J. Corte-Real, Centre de Recherche Public Gabriel Lippmann, Belvaux, Luxembourg
- PO2906 PREBIOTIC EFFECT OF A FORMULA SUPPLEMENTED WITH GALACTO-OLIGOSACCHARIDES IN TERM INFANTS: A RANDOMIZED MULTICENTER TRIAL**
M. Giovannini, Department of Pediatrics San Paolo Hospital University of Milan, Italy
- PO2907 DETERMINATION OF ANTI OXIDATIVE OF INDONESIAN FOOD (KEMOJO CAKE)**
I.Y. Puri, Department of community nutrition, public health faculty, Andalas University, Indonesia
- PO2909 THE POSSIBILITY OF USING BIOLOGICAL ACTIVITY SUBSTANCES AND SWEETENERS IN COOKIES**
D. Gorecka, Poznan University of Life Sciences, Poznań, Poland
- PO2910 GLYCOMACROPEPTIDE: A NEW DIETARY OPTION FOR IMPROVING PHENYLKETONURIA(PKU) DIET COMPLIANCE**
S. Edalati, Students' Research Committee, Faculty of Health & Nutrition, Tabriz University of Medical Sciences, Tabriz, Iran
- PO2911 GYNURA FORMOSANA EXTRACT DECREASES SERUM URIC ACID AND URINE ALBUMIN IN MICE FED WITH HIGH-FAT DIET**
H.M. Shaw, Department of Health and Nutrition, Chia-Nan University of Pharmacy and Science, Taiwan
- PO2912 POLYPHENOLS PROFILE AND ANTIOXIDANT CAPACITY OF SELECTED MEDICINAL PLANTS OF BANGLADESH**
N. Shaheen, Institute of Nutrition and Food Science, University of Dhaka, Dhaka, Bangladesh
- PO2913 MINERAL AVAILABILITY OF INFANT FORMULAS SUPPLEMENTED WITH LACTOFERRIN AND / OR GOS AFTER IN VITRO GASTROINTESTINAL DIGESTION**
E. Aly, Department of Food Science and Nutrition, Faculty of Veterinary Sciences, Regional Campus of International Excellence "Campus Mare Nostrum", University of Murcia, Spain
- PO2914 INULIN AND FOS INHIBIT E. COLI INVASION OF INTESTINAL EPITHELIAL CELLS VIA ACTIONS ON BOTH BACTERIA AND EUKARYOTIC CELLS**
C.J. Aranda, Department of Biochemistry and Molecular Biology II, School of Pharmacy, University of Granada, Granada, Spain
- PO2915 EFFECTS OF UNSAPONIFIABLE MATERIALS IN RICE BRAN OIL ON SERUMCHOLESTEROL LEVELS IN RATS**
E. Tsuji, Department of Nutrition and Life Science, Kanagawa Institute of Technology, Atsugi-city, Kanagawa, Japan
- PO2916 HYDROPHILIC ANTIOXIDANT CAPACITIES OF VEGETABLES AND FRUITS COMMONLY CONSUMED IN JAPAN AND ESTIMATION OF DAILY INTAKE**
J. Takebayashi, Department of Food Function and Labeling, National Institute of Health and Nutrition, 1-23-1 Toyama, Shinjuku-ku, Tokyo, Japan
- PO2917 INFLUENCE OF BIFIDOBACTERIUM LONGUM CECT 7347 IN LIVER IRON MOBILIZATION AND INFLAMMATORY BIOMARKERS PRODUCTION IN A GLUTEN-INDUCED ENTEROPATHY ANIMAL MODEL**
J.M. Laparra Llopis, Institute of Agrochemistry and Food Technology, Paterna, Spain
- PO2918 DETERMINATION OF GLUTATHIONE AND ITS DERIVATIVES IN HUMAN BLOOD AFTER ORAL ADMINISTRATION**
E.Y. Park, Department of Food Sciences and Nutritional Health, Division of Applied Life Sciences, Graduate School of Life and Environmental Sciences, Kyoto Prefectural University, Japan
- PO2919 IDENTIFICATION OF EPICATECHIN AS THE BIOACTIVE CONSTITUENT IN POLYPHENOL ENRICHED EXTRACTS THAT DEMONSTRATE A BENEFICIAL EFFECT ON ALLERGIC SYMPTOMS**
S. Nütten, Nestlé Research Center, Nestec Ltd., Lausanne, Switzerland
- PO2920 FERMENTATION SUPERNATANTS OF KONJAC GLUCOMANNAN, INULIN AND CELLULOSE INHIBIT GROWTH BY APOPTOSIS AND CELL CYCLE ARREST IN HUMAN COLON CELLS**
W.T. Wu, School of Nutrition, Chung Shan Medical University, Taichung, Taiwan
- PO2921 SATIETY CONTROL THROUGH FOOD STRUCTURES MADE BY NOVEL PROCESSING: THE SATIN - SATIETY INNOVATION PROJECT**
J. Halford, University of Liverpool, Liverpool, UK
- PO2922 DAIDZEIN ATTENUATES 17 β -ESTRADIOL-REPPRESSED MYOGENIC DIFFERENTIATION**
M. Ogawa, Division of Applied Life Sciences, Graduate School of Life and Environmental Sciences, Osaka Prefecture University, Osaka, Japan
- PO2923 IN VITRO MODULATION OF GLP-1 ACTIVITY BY DIFFERENT AQUEOUS AND ORGANIC EXTRACTS OF EDIBLE SEAWEEDES**
A.R. Schultz Moreira, Departamento de Nutricion y Bromatologia I (Nutricion); Facultad de Farmacia, Universidad Complutense de Madrid, Madrid, Spain
- PO2924 NEUROPROTECTIVE EFFECTS FROM SALVIA MILTIORRHIZA BUNGE IN THE GERBIL HIPPOCAMPAL CA1 REGION AGAINST INDUCED TRANSIENT CEREBRAL ISCHEMIA DAMAGE**
Y.E. Jeon, Hallym University, Gangwon, Republic of Korea
- PO2925 DECREASE IN THE PRODUCTION OF BETA-AMYLOID BY ECKLONIA CAVA ACTIVATION OF THE ACTIVATION OF ALPHA-SECRETASE IN HEK293 CELLS**
Y.E. Jeon, Hallym University, Gangwon, Republic of Korea

- PO2926 INHIBITORY EFFECTS OF LIGULARIA FISCHERI ON THE FORMATION OF ADVANCED GLYCATION ENDPRODUCTS AND RAT LENS ALDOSE REDUCTASE**
Y E. Jeon, Hallym University, Gangwon, Republic of Korea
- PO2927 VISUALIZATION OF THE BIOLOGICAL EFFECTS OF FRUITFLOW® ON PLATELET ADHESION UNDER PHYSIOLOGICAL FLOW CONDITIONS**
N. Richard, DSM Nutritional Products, Departement of Human Nutrition & Health, Basel, Switzerland
- PO2928 INTERACTION BETWEEN PHENOLIC COMPOUNDS OF VIRGIN OLIVE OIL WITH A SALIVARY PROTEIN (MUCIN): AN APPROACH TO BIOAVAILABILITY**
A. Quintero-Florez, Instituto De Investigacion Y Formacion Agraria Y Pesquera. Centro Venta Del Llano, Mengibar, Jaen, Spain
- PO2929 OIL BULKING AGENTS AS FAT REPLACERS TO DEVELOP HEALTHIER MEAT PRODUCTS: A RAMAN SPECTROSCOPIC STUDY**
F. Jimenez-Colmenero, Institute of Food Science Technology and Nutrition (ICTAN-CSIC), Madrid, Spain
- PO2930 BIFIDOBACTERIUM CECT 7765 AMELIORATES INTESTINAL AND PERIPHERAL TISSUE INFLAMMATION ASSOCIATED WITH OBESITY IN HIGH-FAT DIET FED MICE**
A. Moya, Microbial Ecology and Nutrition Research Group, National Research Council (IATA-CSIC), Valencia, Spain
- PO2931 INFLUENCE ON HEALTH MARKERS OF THE REGULAR CONSUMPTION OF ANEW MEAT PRODUCT DESIGNED WITH AN OPTIMIZED NUTRITIONAL PROFILE**
S. Navas-Carretero, Department of Nutrition, Food Science and Physiology, University of Navarra, Pamplona, Navarra, Spain
- PO2932 EFFECT OF METHYLATED CATECHINS ON PHYSIOLOGICAL ACTIVITIES IN RATS FED A HIGH-FAT DIET**
M. Kondo, Faculty of Human Life Science, Shikoku University, Japan
- PO2933 PREBIOTIC EFFECT OF NEW TYPE RESISTANT STARCH ON SERUM LIPIDS IN HUMAN**
S. Kasaoka, Bunkyo University, Kanagawa, Japan
- PO2934 ENDOGENEOUS ANTIOXIDANT CAPACITY OF SCHIZANDRA CHINENSIS BAILLON AGAINST TERT-BUTYL HYDROPEROXIDE-INDUCED OXIDATIVE HEPATIC DAMAGE IN RATS**
G M. Do, Department of Nutritional Science and Food Management, Ewha Womans University, Seoul, Republic of Korea
- PO2935 IN VITRO ALPHA-GLUCOSIDASE INHIBITORY ACTIVITY OF UNDARIA PINNATIFIDA, HIMANTHALIA ELONGATA AND PORPHYRA UMBILICALIS WATER AND ORGANIC EXTRACTS**
A. Schultz, Departamento de Nutricion, Facultad de Farmacia, Universidad Complutense de Madrid, Spain
- PO2936 INFANT FORMULA WITH GALACTOOLIGOSACCHARIDES STIMULATES BIFIDOBACTERIUM POPULATION, WITHOUT REDUCTION OF INFECTIONS IN THE FIRST YEAR OF AGE ON HEALTHY INFANTS**
J. Blasco, Hospital Materno-Infantil, Malaga, Spain
- PO2937 CAROTENOID AND FLAVONOID COMPOSITION OF A LOW ALCOHOLIC NOVEL ORANGE DRINK OBTAINED BY FERMENTATION AND PASTEURIZATION OF ORANGE JUICE**
B. Escudero-Lopez, Department of Molecular Biology and Biochemistry Engineering, University of Pablo de Olavi de Seville, Spain
- PO2938 GLYCEMIC RESPONSE OF CEREAL PRODUCTS IS MAINLY EXPLAINED BY ITS SLOWLY DIGESTIBLE STARCH, FAT AND FIBRE CONTENT**
A. Meynier, Mondelez International R&D, Nutrition Research, Saclay, France
- PO2939 BIOACCESSIBILITY OF BIOACTIVE COMPOUNDS (ACE INHIBITORS AND ANTIOXIDANTS) FROM EXTRUDED MAIZE PRODUCTS ADDED WITH PORPHYRA COLUMBINA RED SEAWEED**
R E. Cian, Food Technology Institute, Faculty of Chemical Engineering, Universidad Nacional Del Litoral. Consejo Nacional de Investigaciones Cientificas y Tecnicas (CONICET), Ciudad Autonoma de Buenos Aires, Argentina
- PO2940 PROTEOMIC IDENTIFICATION OF SMALL ANTIOXIDANT PEPTIDES IN DRY-CURED HAM**
F. Toldra, Instituto De Agroquimica Y Tecnologia De Alimentos (CSIC)
- PO2941 MODULATORY EFFECT OF FERULIC ACID ON LPS-INDUCED INDOLEAMINE 2, 3-DEOXYGENASE (IDO) EXPRESSION IN MICROGLIA**
M. Koshiguchi, Laboratory of Food Nutrition, Graduate School of Horticulture, Chiba University, Japan
- PO2942 VITAMIN D STABILITY IN FORTIFIED FOOD EMULSIONS**
D. Leskauskaite, Department of Food Technology, Kaunas University of Technology, Kaunas, Lithuania
- PO2943 BIOACCESSIBILITY ASSESSMENT OF CAROTENOIDS FROM COMERCIAL NUTRACEUTICAL PRODUCTS**
F. Peixoto, Program of Post Graduate Food Science and Technology, Rural Federal University of Rio de Janeiro, Brazil
- PO2944 PEANUT BUTTER FRUIT: A RICH SOURCE OF LYCOPENE**
R. Borguini, Embrapa Food Technology, Embrapa, Rio de Janeiro, Brazil
- PO2945 EVALUATION OF ANTHOCYANIN PROFILE IN APPLE PEEL OF THREE CULTIVARS PRODUCED IN BRAZIL**
A. Gouvêa, Program of Post Graduate Food Science and Technology, Rural Federal University of Rio de Janeiro, Rio de Janeiro, Brazil
- PO2946 EFFECT OF NON-ALCOHOLIC BEER IN THE SUBJECTIVE SLEEP QUALITY IN AN UNIVERSITY STUDENT POPULATION UNDER STRESS**
L. Franco, University of Extremadura, Spain
- PO2947 HYPOCHOLESTEROLEMIC EFFECT OF COWPEA VICILIN IN RATS FED A HIGH-CHOLESTEROL DIET**
V. Neves, Department of Food and Nutrition, School of Pharmaceutical Sciences, São Paulo State University, Brazil
- PO2948 EFFECTS OF ADZUKI BEAN VICILIN IN RATS FED A HIGH-CHOLESTEROL DIET**
V A. Neves, Department of Food and Nutrition, School of Pharmaceutical Sciences, Brazil
- PO2949 PLASMA PHARMACOKINETICS FOLLOWING INTRAVENOUS ADMINISTRATION OF MASLINIC ACID, A PENTACYCLIC TRITERPENE FROM OLIVES**
M. Sanchez Gonzalez, Departament de Fisiologia and INSA-UB, Universitat de Barcelona, Barcelona, Spain
- PO2950 METABOLITE PROFILE IN PLASMA OF MASLINIC ACID, A BIOACTIVE COMPOUND FROM OLEA EUROPAEA L.**
M. Sanchez Gonzalez, Departament de Fisiologia and INSA-UB, Universitat de Barcelona (UB), Barcelona, Spain
- PO2951 DIETARY N-METHYLSEROTONIN REGULATES SKIN TEMPERATURE IN A FEMALE RAT MODEL OF MENOPAUSE-RELATED HOT FLASH**
M. Weiser, DNP-Boulder Neuroscience, DSM Nutritional Products, Boulder, CO, USA
- PO2952 THE EFFECT OF IN VITRO SIMULATED DIGESTION ON THE BIOACTIVITY OF FREE AND COMPLEXED RESVERATROL IN ORANGE JUICE AND MILK**
C. Lucas-Abellan, Dto. Tecnologia De La Alimentacion Y Nutricion, Universidad Catolica San Antonio De Murcia, Spain
- PO2953 ANTI-INFLAMMATORY EFFECTS OF LACTOBACILLUS ACIDOPHILUS AND BIFIDOBACTERIUM LACTIS IN AN INFLAMMATORY MODEL OF HT-29 CELLS**
W F. Hsu, School of Nutrition and Health Sciences, Taipei Medical University, Taipei, Taiwan

- PO2954 ISOTHIOCYANATES PROTECT AGAINST OXIDIZED LDL-INDUCED ENOS REDUCTION AND ANGIOGENESIS VIA FOXO1-DEPENDENT REGULATION**
A. Lin, School of Nutrition, Chung Shan Medical University, China
- PO2955 EXTRACT OF A JAPANESE PICKLING MELON PREVENTS ETHANOL-INDUCED LIVER INJURY IN RATS**
A. Kojima-Yuasa, Dept. of Food and Human Health Sciences, Graduate School of Human Life Science, Osaka City University, Japan
- PO2956 INFLUENCE OF VITAMINS FOR DIFFERENTIATION OF MONOCYTE, THP-1, TO MACROPHAGE**
M. Andoh, Department of Applied Biological Chemistry, Meijo University, Nagoya, Japan
- PO2957 INFLUENCE OF FOODS ON DIFFERENTIATION OF MONOCYTE, THP-1, TO OSTEOCLAST**
K. Watanabe, Department of Applied Biological Chemistry, Meijo University, Nagoya, Japan
- PO2958 A CO-ADMINISTRATION OF FLAVONOIDS TO INCREASE THEIR BIOAVAILABILITY IN RAT**
A. Doi, Department of Agrobioscience, Graduate School of Agricultural Science, Kobe University, Japan
- PO2959 STRUCTURALLY DIFFERENT GALACTO-OLIGOSACCHARIDES HAVE DIFFERENT DIGESTIBILITY PATTERNS AND BIFIDOGENIC PROPERTIES IN RATS**
M C. Marin-Manzano, Estacion Experimental Del Zaidin, Consejo Superior De Investigaciones Cientificas, Granada, Spain
- PO2960 NEW SPL OF PHYTONUTRIENTS FOR ESSENTIAL LIFESPAN**
Y. Yuexin, DRI Experts Committee, Chinese Nutrition Society, China
- PO2961 TEXTURE AND COLOR OF BREAD: INFLUENCE OF β -GLUCANS ADDITION**
A E. Gallardo, Baking Laboratory, ITA, FIQ, Universidad Nacional del Litoral, Argentina
- PO2962 BIOACTIVE AND CLAIMS: REGULATORY SYSTEM IN CHINA**
Y. Yuexin, National Institute of Nutrition and Food Safety, China
- PO2963 MICROENCAPSULATED GREEN TEA EXTRACT SUPPLEMENTATION AMELIORATED DYSLIPIDEMIA AND FAT ACCUMULATION IN A FRUCTOSE FED RAT MODEL**
M. Chang, Department of Food and Nutrition, Kookmin University, Seoul, Republic of Korea
- PO2965 ANALYSES OF A POLYPHENOL AGLYCONE PROFILE IN FRUIT AND VEGETABLES BY LC-MS QTOF**
L L. Hamill, Centre for Public Health, Queen's University Belfast, Institute of Clinical Science B, Grosvenor Road, Belfast, BT12 6BJ, Northern Ireland, UK
- PO2966 EFFECT OF DAIRY CALCIUM FROM CHEESE AND MILK ON BLOOD LIPIDS IN HEALTHY YOUNG MEN**
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- PO2967 INTESTINAL INFLAMMATION IN CYSTIC FIBROSIS: LACK OF EFFECTIVENESS AFTER TREATMENT WITH MESALAMINE AND PROBIOTICS**
V M. Navas-Lopez, Pediatric Gastroenterology and Nutrition Unit, Hospital Materno Infantil, Malaga, Spain
- PO2968 EFFECT OF PREBIOTIC SUPPLEMENT TO ENTERAL FEEDINGS IN PREMATURE INFANTS: A CASE CONTROL STUDY**
S. Shaaban, Pediatrics Department, Faculty of Medicine, Ain Shams University, Cairo, Egypt
- PO2969 INHIBITORY EFFECTS OF SALVIA HISPANICA L. SEED EXTRACTS ON ANGIOTENSIN I-CONVERTING ENZYME IN VITRO**
B. Gonzalez- Martinez, Universidad Autonoma de Nuevo Leon. Facultad de Salud Publica y Nutricion, Mexico
- PO2970 PREBIOTIC EFFECT OF INULIN TYPE FRUCTANS: A FOCUS ON BIFIDOBACTERIUM POPULATIONS AND MICROBIAL RELATED METABOLITES IN OBESE INDIVIDUALS**
N. Salazar, Metabolism and Nutrition Research Group, Louvain Drug Research Institute, Universite Catholique De Louvain, Brussels, Belgium
- PO2971 ENCAPSULATION METHOD TO PROTECT UNSATURATED FATTY ACIDS FROM RUMEN BIOHYDROGENATION IN VITRO**
R. Gawad, Dairy Science Department, National Research Center, Egypt
- PO2972 PROTECTIVE EFFECT OF PROBIOTIC TREATMENT ON INTESTINAL MICROBIOTA AND POTENTIAL RISKS**
S. Al-Okbi, Department of Food Sciences and Nutrition, National Research Centre, Cairo, Egypt
- PO2973 EFFECT OF TEMPERATURE AND DAY LENGTH ON OMEGA-3, 6 FATTY ACIDS AND OXALIC ACID LEVELS IN PORTULACA OLERACEA**
H. Oduro-Obeng, Food, Nutrition and Socio-Economic Division, CSIR-Food Research Institute, Accra Ghana
- PO2974 ROLE OF BIO-ACTIVE YOGHURT AND FERMENTED SOBYA ON THE RESTORATION OF THE GUT BARRIER FUNCTION AND COLONIC METABOLIC ACTIVITY**
M. Gouda, National Research Center, Egypt
- PO2976 CIRSIUM SETIDENS EXTRACTS INDUCES FATTY ACID OXIDATION AND DECREASES FAT ACCUMULATION IN THE LIVER OF A HIGH-FAT DIET FED MICE**
J. Chung, Department of Food and Nutrition, Kyung Hee University, Seoul, Rep. of Korea
- PO2977 ENHANCED WATER DISPERSIBILITY OF POORLY WATER-SOLUBLE POLYPHENOLS BY COMPLEXATION WITH CASEIN AND CASEIN HYDROLYSATE**
T. Oshima, Department of Applied Chemistry, University of Miyazaki, Japan
- PO2978 STUDY OF ENZYMATIC HYDROLYSIS OF MICROALGAE PROTEIN ISOLATE**
M. Verdugo, Program in Sciences of Natural Resources, Universidad de La Frontera, Temuco, Chile
- PO2979 IDENTIFICATION OF FRUCTANASES WITH POTENTIAL APPLICATION IN THE FRUCTOOLIGOSACCHARIDES PRODUCTION**
A. Avila-Fernandez, Centro de Investigacion, Division Academica de Ciencias de la Salud, Universidad Juarez Autonoma de Tabasco, Tabasco, Mexico
- PO2980 EFFECT OF PUERARIN ON THE INSULIN SIGNALING PATHWAY IN TYPE 2 DIABETIC RAT MODEL**
X. Xuesong, National Institute For Nutrition and Food Safety, Chinese CDC, China
- PO2981 SUPPRESSIVE EFFECT OF HYDROLYZED RICE BRAN (HRB) ON D-GALACTOSAMINE/LPS INDUCED IL-18 AND HEPATITIS BY INHIBITION OF NF- κ B PATHWAY IN MICE**
Y. Egashira, Laboratory of Food Nutrition, Graduate School of Horticulture, Chiba University, Matsudo, Chiba, Japan
- PO2982 DIETARY POLYPHENOLS INDUCE A SECRETION OF GUT HORMONES FROM CACO-2 CELLS**
W Y. Song, Department of Agrobioscience, Graduate School of Agricultural Science, Kobe University, Japan
- PO2983 BIO-ACTIVE COMPOUNDS OF FAGONIA ARABICA IN RELATION TO THEIR PHYSIOLOGICAL FUNCTIONS**
A. Hussain, Government College University Faisalabad, Pakistan
- PO2984 ENHANCED PRODUCTION OF TESTOSTERONE BY GERANYLGERANIOL IN MOUSE TESTIS DERIVED TUMOR CELLS**
H. Shirakawa, Graduate School of Agricultural Science, Tohoku University, Sendai, Japan
- PO2985 MECHANISTIC STUDIES OF ADVANCED GLYCATION ENDPRODUCTS INHIBITION BY DIETARY SPICY INGREDIENT CAPSAICIN**
C H. Wu, School of Nutrition and Health Sciences, Taipei Medical University, Taiwan

- PO2986 OCCURRENCE OF FOOD-DERIVED PEPTIDES IN HUMAN PERIPHERAL BLOOD IN MICRO M LEVELS FOR FEW HOURS**
K. Sato, Kyoto Prefectural University, Shimogamo Hangicho, Kyoto, Japan
- PO2987 BIOAVAILABILITY AND METABOLISM OF (POLY)PHENOLS AFTER ACUTE CONSUMPTION OF A NOVEL ORANGE DRINK IN RATS**
B. Escudero-Lopez, Department of Molecular Biology and Biochemistry Engineering, University of Pablo de Olavide, Sevilla, Spain
- PO2988 CHIA (SALVIA HISPANICA L.) FLOUR AS AN ALTERNATIVE INGREDIENT TO DEVELOP GLUTEN-FREE POTATO BREAD**
B. Pereira, University of Rio De Janeiro State, Brazil
- PO2989 LINGONBERRIES RETAIN BIOACTIVITY FOLLOWING SIMULATED GASTROINTESTINAL DIGESTION AND COLONIC FERMENTATION**
C. Gill, University of Ulster, Northern Ireland, UK
- PO2990 APPLICATION OF THE SOLVENT EXTRACTION TECHNIQUE TO INVESTIGATION OF ANTI-INFLAMMATORY ACTIVITY OF ADLAY BRAN**
S M. Hsia, School of Nutrition and Health Science, Taipei Medical University, Taiwan
- PO2991 AN IN VITRO INVESTIGATION INTO THE POTENTIAL PREBIOTIC ACTIVITY OF PSYLLIUM HUSKS**
M. Chan, Newcastle University, Newcastle, UK
- PO2992 EFFECT OF GARLIC ESSENTIAL OIL ON PROTEIN OXIDATION IN CHILL STORED PORK PATTIES**
G. Nieto Martinez, Departamento de tecnologia alimentos, Facultad de Veterinaria/ University of Murcia, Murcia, Spain
- PO2993 UNCOMPETITIVE INHIBITION OF D-PSICOSE ON SMALL INTESTINAL SUCRASE ACTIVITY IN THE RATS**
K. Yamada, Laboratory of Biochemistry, Department of Applied Nutrition, Kagawa Nutrition University, Saitama, Japan
- PO2994 ANTIOXIDANT AND HYPOLIPIDEMIC PROPERTIES OF GREEN TEA AND EGCG IN DYSLIPIDEMIC RAT**
W. Widowati, Maranatha Christian University, Indonesia
- PO2995 MODULATING ROLE OF MORUS ALBA LEAVES ON THE GLYCEMIC INDEX AND GLYCEMIC LOAD OF SELECTED FOOD PRODUCTS - BIOACTIVE FOOD PROJECT**
M. Czapka-Matysik, Department of Human Nutrition and Hygiene, Poznan University of Life Sciences, Poland
- PO2996 THE ESTIMATION OF ANTIOXIDANT CAPACITY IN DAILY DIETARY INTAKE OF THE PATIENTS WITH 2 TYPE DIABETES MELLITUS-PILOT STUDY**
M. Czapka-Matysik, Department of Human Nutrition and Hygiene, Poznan University of Life Sciences, Poland
- PO2997 DIETARY SOY ISOFLAVONE DAIDZEIN LOWERED THE FOOD INTAKE, BODY WEIGHT AND BODY FAT IN FEMALE RAT WITH AND WITHOUT OVARECTOMY**
T. Kishida, Department of Biological Resources, Faculty of Agriculture, Ehime University, Japan
- PO3000 COGNITIVE AND MOOD EFFECTS OF ACUTE SUPPLEMENTATION WITH CONCORD PURPLE GRAPEJUICE IN HEALTHY ADULTS**
C. Haskell, Brain, Performance and Nutrition Research Centre, Department of Psychology, Northumbria University, Newcastle upon Tyne, UK
- PO3001 CONTROLLED RELEASE OF 5-METHYLTETRAHYDROFOLATE ENCAPSULATED IN MESOPOROUS SILICA SUPPORTS CAPPED WITH "SACCHARIDES" UNDER GASTROINTESTINAL STIMULUS**
E. Perez-Estevé, Grupo de Investigación e Innovación Alimentaria, Departamento de Tecnología de Alimentos, Universitat Politècnica de València, Valencia, Spain
- PO3002 BEHAVIOR OF ASCORBIC ACID IN OLD RATS SUPPLEMENTED WITH ASCORBIC ACID**
A. Isaka, Ochanomizu University Human Life and Environmental Sciences Nutrition Nutrition and Food Science, Japan
- PO3003 AN INVESTIGATION INTO THE IMPACT OF PALMARIA PALMATA CONSUMPTION ON MARKERS OF INFLAMMATORY AND ANTIOXIDANT STATUS IN HEALTHY ADULTS**
P. Allsopp, Northern Ireland Centre for Food and Health, University of Ulster, Cromore Road, Coleraine, Northern Ireland, UK
- PO3004 EVALUATION OF COMPOSITION CHEMICAL, CAROTENOIDS AND BETA-GLUCAN CONTENT OF JATоба-DO-CERRADO (HYMENAEA STIGNOCARPA MART.) OF THE BRAZILIAN SAVANNA**
C. Olivieri, Department of Nutrition, School of Public Health, University of Sao Paulo, USP, Sao Paulo, Brazil
- PO3005 PHYTOCHEMICAL CONTENTS, ANTIOXIDANT AND ACETYLCHOLINESTERASE INHIBITORY ACTIVITY OF PIDADA (SONNERATIA CASEOLARIS) FRUIT EXTRACT, AN EDIBLE MANGROVE FRUIT SPECIES**
M F. Abu Bakar, Universiti Malaysia Sabah, Malaysia
- PO3006 OPTIMIZATION OF MIX CONDITION WITH PUMPKIN, CORN SILK, AND ADZUKI BEAN FOR INHIBITION OF ADIPOCYTE DIFFERENTIATION IN 3T3-L1 CELL**
J. HeePark, Department of Food and Nutrition Kyungnam Univ, 449 Woryeong-dong, Masanhappo-gu, Changwon, Gyeongnam, Republic of Korea
- PO3007 THE IMPACT OF THE NATURAL PHYTOESTROGENIC DIETOTHERAPY ON SEX HORMONE METABOLISM IN MENOPAUSAL WOMEN AND RISK OF BREAST CANCER**
A. Kostrzewa - Tarnowska, Department of Human Nutrition and Hygiene, Poznan University of Life Sciences, Poland
- PO3383 BERRIES POLYPHENOLS: A MULTIAPPROACH TO DISCLOSE HUMAN HEALTH BENEFITS**
L. Tavares, Instituto de Tecnologia Quimica e Biologica, Universidade Nova de Lisboa, Av. da Republica, Oeiras, Portugal
- PO3384 DEVELOPMENT OF A SWEET AND ENERGETIC BAR USING SESAME**
M E. Sanchez-Pardo, Instituto Politecnico Nacional, Mexico
- PO3385 EFFECT OF FEEDING OMANI HALWA ON THE GROWTH PERFORMANCE, BLOOD GLUCOSE AND PLASMA LIPID PROFILE OF SPRAGUE-DAWLEY RATS**
A. Ali, Department of Food Science and Nutrition, Sultan Qaboos University, Oman
- PO3386 MUSHROOM PROTEIN CONCENTRATES AS A PROTEIN SOURCE OF HIGH NUTRITIONAL VALUE**
M. Diaz Herrero, Dpto. Bioquímica Y Biología Molecular. U Sevilla, Sevilla, Spain
- PO3387 OLIVE LEAF BIOACTIVES: EXTRACT COMPOSITION, ABSORPTION AND METABOLIC EFFECTS IN HUMANS**
S. Hodgkinson, Liggins Institute, University of Auckland, Australia
- PO3388 TREATMENT WITH A SYMBIOTIC CONCEPT REDUCES ASTHMA-LIKE SYMPTOMS AND INDUCES REGULATORY RESPONSES IN A MURINE MODEL OF CHRONIC ALLERGIC ASTHMA**
G. Folkerts, Utrecht Institute for Pharmaceutical Sciences, Faculty of Science, Utrecht University, Utrecht, The Netherlands
- PO3389 LEAF CONCENTRATES; LOW COST NATURAL SUPPLEMENTS TO COMBAT MICRO NUTRIENT DEFICIENCIES**
S. Sapur, Akshaya Foundation, Hyderabad, A.P, India
- PO3390 VITAMIN C FROM GUAVA CONSUMED WITH MUNGBEAN WITH MODEST NATIVE IRON INCREASES AVAILABLE IRON FOR ERYTHROPOIESIS AND HEMOGLOBIN BUT NOT IRON STORES**
V. Rani, Department of Foods and Nutrition, Chaudhary Charan Singh Haryana Agricultural University, Hisar, India

- PO3391 AGRIMONIA PILOSA LEDEB. AQUEOUS EXTRACT IMPROVES IMPAIRED GLUCOSE TOLERANCE IN HIGH FAT FED RATS BY DECREASING HEPATIC INFLAMMATION**
Y M. Lee, Rural Development Administration, Suwon, Republic of Korea
- PO3392 LIVE-CELL IMAGING STUDY ON ANTI-ADIPOGENIC AND APOPTOTIC EFFECTS OF A POLYPHENOLIC RESVERATROL DURING ADIPOCYTE DIFFERENTIATION**
H. Ihara, Wakayama Medical University School of Medicine, Wakayama, Japan
- PO3393 A BIOLOGICAL SCREENING TEST TO DETERMINE THE ANTIOXIDANT POTENCIES OF WINE CONSTITUENTS**
L. Dugo, Integrated Research Center, Università Campus Bio-Medico di Roma, Italy
- PO3394 BIFIDOBACTERIUM BREVE TREATMENT IS AS EFFECTIVE AS BUDESONIDE AT REDUCING INFLAMMATION IN A MURINE MODEL OF CHRONIC ASTHMA**
S. Sagar, UIPS, Division of Pharmacology, Faculty of Science, Utrecht University, The Netherlands
- PO3395 BUCKWHEAT ENRICHED BREAD PRODUCTION AND ITS NUTRITIONAL BENEFITS**
T. Bojnanska, Department of Storing and Processing Plant Products, Faculty of Biotechnology and Food Sciences, Slovak University of Agriculture In Nitra, Slovak Republic
- PO3396 EFFECTS OF A FERMENTED TEA MANUFACTURED BY MIXING GREEN TEA LEAVES AND UNRIPE ORANGE ON LIPID METABOLISM IN RATS**
K. Tanaka, Graduate School of Human Health Science, University of Nagasaki, Japan
- PO3397 IDENTIFICATION OF PHENOLIC COMPOUNDS BY LC-MS IN DRINKS OBTAINED BY GLUCONIC FERMENTATION FROM STRAWBERRY (FRAGARIA ANANASSA)**
M A. Alvarez-Fernandez, University of Sevilla, Food Science and Nutrition Departement, Sevilla, Spain
- PO3398 IMPROVEMENT OF FUNCTIONALITY OF RICE BY NEW FERMENTATION METHOD OF RED MOLD**
E. Seo, Department of Applied Bioscience, CHA University, Seongnam-si, Gyeonggi-do, Korea
- PO3399 INFLUENCE OF MODERATE RED WINE CONSUMPTION IN THE PREVENTION OF CARDIOVASCULAR DISEASES AND METABOLIC SYNDROME**
P. Chlebo, Department of Human Nutrition, Faculty of Agrobiology and Food Resources, Slovak University of Agriculture In Nitra, Slovak Republic
- PO3401 PROTECTIVE EFFECTS OF PHYTOESTROGENS LIKE DAIDZEIN AND GENISTEIN AGAINST OXIDATIVE STRESS IN THE CACO-2 COLON CARCINOMA CELLS**
C. Suresh, National Institute of Nutrition, Hyderabad, India
- PO3400 PROTECTIVE EFFECT OF PERACETYLATED EGCG VS. EGCG ON ULTRAVIOLET-B INDUCED DAMAGE OF HACAT CELLS**
H. Jiang, Tea Research Institute, Chinese Academy of Agricultural Sciences, China

T7. Food culture practices and Nutritional Education

- PO3008 VITAMIN D DEFICIENCY OCCUR IN TROPICAL COUNTRY WOMEN, NOT DEPENDING ON ADIPOCYTE STATUS**
D. Sari, Nutrition Department, Medical Faculty, University of Sumatera Utara, Medan, Sumatera Utara, Indonesia
- PO3009 SURVEYS ON SELLING CONDITIONS, USE AND CONSUMPTION OF CRUDE PALM OIL IN DOUALA, CAMEROON**
F F. Dongho Dongmo, Department of Biochemistry, University of Douala, Douala, Cameroon
- PO3010 CONSUMER PERCEPTION AND NUTRIENTS COMPOSITION OF SOME TRADITIONAL FOODS IN SOME AREAS IN ASHANTI REGION (KEDJETIA, ASAFO, TAFO AND MAAKRO)**
E Y. Akoto, Kwame Nkrumah University of Science and Technology, Kumasi, Ashanti Region, Ghana
- PO3011 HOME-GROWN CLIMATIC VARIABILITY ADAPTATION STRATEGIES IN MUBENDE DISTRICT**
S J. Dembe, Global Initiative Uganda (GIU)
- PO3012 FOOD ACQUISITION FORMS – BRAZIL, 2002-2009**
L. Mondini, Institute of Agricultural Economics, Department of Agriculture of São Paulo, Brazil
- PO3013 ANALYSIS OF THE ASSOCIATION BETWEEN VISUAL FATIGUE AND DIETARY PATTERNS AMONG STUDENTS OF UNIVERSITIES IN XI'AN, CHINA**
L. Ma, School of Public Health, Xi'an Jiaotong University College of medicine, Xi'an, Shaanxi, 710061, China
- PO3014 INCREASING FOOD SECURITY THROUGH NATURAL RESILIENCE AND COPING STRATEGIES IN RURAL COMMUNITIES**
R. Ddungu, Green World Uganda (GWU), Uganda
- PO3015 PHYSICAL FITNESS AND ACADEMIC PERFORMANCE AMONG UNIVERSITY STUDENTS IN SELANGOR, MALAYSIA**
E. Maghsoudi, Department of Nutrition and Dietetics, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Kuala Lumpur, Malaysia
- PO3016 EXPLORING ENVIRONMENTAL, HEALTH AND NUTRITION IMPLICATIONS OF MEDITERRANEAN DIETARY PATTERNS**
Y. Aboussaleh, Nutrition and Health Laboratory, Ibn Tofail University, Morocco
- PO3017 DIETARY ITEMS DEFINING A NORDIC DIET – AN A PRIORI INVESTIGATION IN THE EPIC COHORT**
N. Roswall, Danish Cancer Society Research Center, Copenhagen, Denmark
- PO3018 GREEK DIET: NUTRITIONAL COMPOSITION OF 24 CRETAN EDIBLE WILD PLANTS**
S. Zeghichi-Hamri, Department of food sciences, Bejaia University, Bejaia, Algeria
- PO3019 THE MEDITERRANEAN DIET OF THE MAGHREB AND CANCER**
S. Zeghichi-Hamri, Department of food sciences, Bejaia University, Bejaia, Algeria
- PO3020 FOOD PRACTICES CHANGES AND CARDIOVASCULAR DISEASE RISK FACTORS OF SAHRAOUI ETHNIC GROUP IN SOUTH OF MOROCCO**
M. Rguibi, Biology Department, Training and Research Unit on Nutrition & Food Sciences, Laboratory of Biotechnology, Biochemistry & Nutrition, Chouaib Doukkali University, School of Sciences, El Jadida, Morocco
- PO3021 INDIVIDUAL DIFFERENCES IN THE METABOLISM OF ISOFLAVONES AFTER SOY INGESTION IN 5 AGE-MATCHED YOUNG WOMEN**
K. Hosoda, Department of Clinical Pharmacology, School of Health Sciences, Kyorin University, Tokyo, Japan
- PO3022 ACCEPTABILITY OF COMPLEMENTARY FOODS WITH INDIGENOUS ANIMAL SOURCE FOODS AND CORN SOY BLEND PLUS AMONG YOUNG CHILDREN/MOTHERS IN KENYA**
S. Konyole, University of Nairobi Institute of Tropical and Infectious Diseases (UNITID), University of Nairobi, Nairobi, Kenya

- PO3023 SOCIOECONOMIC AND ANTHROPOMETRIC PROFILE OF RICE-BASED FARM FILIPINO HOUSEHOLDS**
R. Abilgos-Ramos, Rice Chemistry and Food Science Division, Philippine Rice Research Institute, Philippines
- PO3024 BREASTFEEDING PRACTICE OF ETHNIC GROUPS IN RURAL WESTERN CHINA**
P. Qu, Department of Epidemiology and Biostatistics, School of Public Health, Xi'an Jiaotong University College of Medicine, China
- PO3025 NUTRITION TRANSITION, ADVERTISING AND MEDICALIZATION OF FOOD IN BRAZIL**
S. Prado, Nucleo de Estudos Sobre Cultura e Alimentação (NECTAR), Instituto de Nutrição, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Estado do Rio de Janeiro, Brasil
- PO3026 CONSUMPTION OF CASSAVA LEAVES AND KNOWLEDGE OF THEIR NUTRITIONAL VALUE AMONG GHANAIAN FARMERS FROM THREE GEOGRAPHICAL BELTS**
W. Opoku-Nkoo, Department of Nutrition and Food Science, University of Ghana, Accra, Ghana
- PO3027 ASSESSMENT OF MILK CONSUMPTION IN YOUNG ADULTS**
P. Asho, Bharati Vidyapeeth Deemed University Medical College Pune, India
- PO3028 DIETARY PATTERNS OF PAKISTANI ADULTS AND THEIR ASSOCIATIONS WITH SOCIODEMOGRAPHIC, ANTHROPOMETRIC AND LIFESTYLE FACTORS**
N. Safdar, School of Public Health, Dow University of Health Sciences, Karachi, Pakistan
- PO3029 TASTE PREFERENCES AND NUTRITIONAL INTAKE IN RELATION TO OBESITY PREVENTION IN THE XINJIANG DISTRICT OF CHINA**
S. Muto, Nutrition, Kagawa Nutrition University, Sakado, Saitama, Japan
- PO3030 KNOWLEDGE AND ATTITUDES OF DIETITIANS CONCERNING SEAFOOD CONSUMPTION AND COMMON PROCESSING/PRESERVATION TECHNOLOGIES**
S. Mol, Istanbul University, Fisheries Faculty, Department of Seafood Processing and Quality Control, Istanbul, Turkey
- PO3031 TACKLING MALNUTRITION BY IMPROVING ECONOMICAL SKILLS AND NUTRITIONAL AWARENESS OF "PORRIDGE MUMS": RESULTS AND LESSONS LEARNT FROM GUINEA-CONAKRY**
J. Jacob, Accion Contra El Hambre (ACF Spain)
- PO3032 TRADITIONAL SOLUTIONS FOR HIGH LEVELS OF CHILDHOOD ANAEMIA IN THE PERUVIAN ANDES**
B. Gillespie, Technical Department, Action Against Hunger Spain, Lima, Peru
- PO3033 MIGRATION AND GENDER ROLES IN RELATION TO HIGH LEVELS OF CHILDHOOD ANAEMIA IN THE PERUVIAN ANDES**
B. Gillespie, Technical Department, Action Against Hunger Spain, Lima, Peru
- PO3034 CULTURAL FACTORS RELEVANT FOR THE FIGHT AGAINST CHILD MALNUTRITION IN THE PERUVIAN ANDES**
B. Gillespie, Technical Department, Action Against Hunger Spain, Lima, Peru
- PO3035 DETERMINANTS OF MALNUTRITION AMONG WOMEN OF REPRODUCTIVE AGE IN URBAN POOR AREAS (INDIA)**
C. Combelles de Moraes, Institute of Population and Social Research, Mahidol University, Nakhon Pathom, Thailand
- PO3036 DIETARY HABITS AND NUTRITIONAL CHANGES OF IMMIGRANTS IN THE REGION OF MURCIA**
P. Palacio-Vales, Department of Food Technology & Nutrition, Catholic University of San Antonio, Murcia, Spain
- PO3037 DIETS2: EUROPEAN DIETETIC ADVANCED COMPETENCES- EDAC 2012**
M. Konrad, FH Joanneum university, Graz, Austria
- PO3038 EATING HABITS OF A REMNANT QUILOMBO COMMUNITY IN A MUNICIPALITY OF BRAZILIAN NORTHEAST AFTER IMPLEMENTATION OF CONDITIONAL CASH TRANSFER PROGRAM (BOLSA FAMILIA PROGRAM)**
F. Lima, Universidade Federal da Paraíba, João Pessoa, Brazil
- PO3039 PREVALENCE OF OVERWEIGHT AND OBESITY IN SECONDARY SCHOOL STUDENTS IN NEGARA BRUNEI DARUSSALAM**
F. Yassin, Human Nutrition, School of Medicine, College of Medical, Veterinary and Life Sciences, University of Glasgow, Glasgow, UK
- PO3040 ROLE OF NUTRITION EDUCATION TO OVERCOME FOOD TABOOS AND IMPROVE IRON TABLETS DEMAND DURING PREGNANCY IN ETHIOPIA: WONCHI DISTRICT**
T. M. Cherkos, World Vision, Ethiopia
- PO3041 EFFECT OF ENDOGENOUS ENZYMES ON COOKING MIXED RICE AND BARLEY AND ITS IMPACT ON NUTRITION**
M. Tsuyukubo, Department of Nutrition and Food Science, Graduate School of Humanities and Sciences, Ochanomizu University, Tokyo, Japan
- PO3042 A SURVEY OF NEW YEAR CEREMONIAL DISHES IN JAPAN PART. 2. OSECHI-RYORI**
M. Fuchigami, Department of Nutrition and Life Science, Fukuyama University, Fukuyama, Hiroshima, Japan
- PO3043 RELATIONSHIP BETWEEN THE FOOD MAPPING AND SELF-EFFICACY AND BEHAVIOR ON COOKING AMONG JUNIOR HIGH-SCHOOL STUDENTS IN THAILAND AND JAPAN**
J. Fujikura, Faculty of Nutrition, Kagawa Nutrition University, Saitama, Japan
- PO3044 THE CHANGES OF DIETARY HABITS ASSOCIATED BONE DENSITY IN YOUNG CHILDREN IN MONGOLIA**
P. Mejeenov, Department of Nutrition, Food and Biotechnology School, Mongolian University Science and Technology, Mongolia
- PO3045 ASSESSMENT OF HEALTH AND NUTRITIONAL STATUS AND ENERGY EXPENDITURE OF POSTMEN, BUSDRIVERS AND HOUSEMAIDS IN MUMBAI CITY, INDIA**
J. Madan, Department of Food and Nutrition, SVT College of HomeScience, SNDT Women's University, Mumbai, India
- PO3046 QUALITY ASSESSMENT OF TABLE SALT CONSUMED BY CHILDREN AND ADOLESCENTS IN THE CITY OF RIO DE JANEIRO, BRAZIL**
A. Nicolau, Department of Public Health Nutrition, Federal University of the State of Rio de Janeiro, Rio de Janeiro, Brazil
- PO3047 NUTRITIONAL EVALUATION OF ARGENTINEAN QUINOA CROPS FROM DIFFERENT ECOTYPES**
S. M. Vidueiros, Department of Nutrition, Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Argentina
- PO3048 WHAT IS FOOD LITERACY AND DOES IT INFLUENCE WHAT WE EAT?**
H. Vidgen, School of Exercise and Nutrition Sciences, Faculty of Health, Queensland University of Technology, Brisbane, Queensland, Australia
- PO3050 A STUDY ON THE CONSCIOUSNESS OF THE YOUNGER GENERATION OF THE RICE CONSUMPTION AND THE SUCCESSION OF JAPANESE FOOD CULTURE**
T. Shigenobu-Kishimoto, Department of Nutritional Science, Okayama Prefectural University, Kuboki 111, Soja, Okayama, Japan
- PO3054 WE LIKE TO EAT TURKISH KEBAP, YOGURT, HOME-MADE SOUP**
E. Aksoydan, Department of Nutrition and Dietetics, Baskent University, Ankara, Turkey
- PO3055 FOOD CONSUMPTION PATTERNS IN EUROPEAN UNION**
M. Kwasek, Department of General Economics, Institute of Agricultural and Food Economics - National Research Institute, Warsaw, Poland

- PO3056 THE EFFECT OF WOMEN'S MANAGEMENT OF HOUSEHOLD INCOMES ON CHILD NUTRITION IN TWO RURAL COMMUNITIES OF NICARAGUA**
H. Marselles, AgroParisTech, INRA, UMR SADAPT, 16 rue Claude Bernard, Paris, France
- PO3057 FOOD AND NUTRITIONAL EDUCATION AS A CONFRONTATION OF OPPRESSION AT BASIC SCHOOL**
S. Prado, Nucleo de Estudos Sobre Cultura e Alimentação (NECTAR), Instituto de Nutrição, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Estado do Rio de Janeiro, Brasil
- PO3058 CAN THE NORDIC DIETARY POLICIES BE A ROLE MODEL?**
P. Baardseth, Nofima, Norwegian Institute of Food, Fishery and Aquaculture, PB 210, NO-1431, Ås, Norway
- PO3059 FROM GREECE WITH USEFUL KNOWLEDGE?**
A S. Ask, Department of Public Health, Sport and Nutrition, Faculty of Health and Sport Sciences, University of Agder, Kristiansand, Norway
- PO3060 DEVELOPMENT AND VALIDATION OF INTEGRATED-KOREAN DIETARY PATTERN SCORE**
K W. Lee, Department of Nutrition Science and Food Management, Ewha Womans University, Korea
- PO3061 USING POSITIVE DEVIANCE TO CHANGE LOCAL FOOD PERCEPTIONS AND IMPROVE CHILD GROWTH IN A ZAMBIAN VILLAGE**
C. Tse, Nutrition Centre of Expertise, World Vision International, Mississauga, Canada
- PO3062 PREVALENCE OF INFANT MALNUTRITION IN THE MOST VULNERABLE SOCIAL GROUPS IN HONDURAS**
L. Fernandez-Palacios, University of Murcia, Murcia, Spain
- PO3063 DIETARY PATTERNS OF BRAZILIAN ADOLESCENTS RELATED TO FAMILY INCOME**
D. Behar, School of Public Health, University of São Paulo, São Paulo, Brazil
- PO3064 USING POSITIVE DEVIANCE TO IDENTIFY NUTRITIOUS RECIPES FOR COMPLEMENTARY FEEDING AND TO REDUCE STUNTING IN RURAL EGYPT**
G. Saleh, Save The Children/MCHIP-Smart Project, Egypt
- PO3065 FOOD CONSUMPTION CHARACTERISTICS AMONG RIVERINE SOUTH BRAZILIAN**
C. Rosaneli, School of Health and Biosciences, Pontificia Universidade Catolica do Parana, Curitiba, PR, Brazil
- PO3066 FOOD CONSUMPTION CHARACTERISTICS AMONG SOUTH BRAZILIAN LOW-INCOME YOUTH**
C. Rosaneli, PUCPR, Brazil
- PO3067 LONG-TERM EFFECTS OF A CONTROLLED MEDITERRANEAN DIET INTERVENTION ON DIETARY AND ANTHROPOMETRIC VARIABLES IN MEN AND WOMEN**
A. Bedard, Institute of Nutrition and Functional Foods (INAF), Laval University, Quebec, Qc, Canada
- PO3068 THE SOCIAL DETERMINANTS OF HEALTH OF THE CHILD-ADOLESCENT IMMIGRATION AND ITS INFLUENCE ON THE NUTRITIONAL STATUS**
C. Wanden-Berghe, Department of Pharmacy, CEU Cardenal Herrera University, Elche, Spain
- PO3069 REFLECTIONS ON HEALTHY EATING FOR THE ELDERLY IN THE CONTEXT OF THE BRAZILIAN PUBLIC AGENDA**
M. Menezes, Nucleo de Estudos sobre Cultura e Alimentação, Instituto de Nutrição, Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil
- PO3070 FOOD AND NUTRIENT SECURITY INDICES TO MONITOR THE FOOD SUPPLY AND INTAKES FOR TAIWAN**
C J. Peng, Department of Environmental and Occupational Health, College of Medicine, National Cheng-Kung University, Taiwan
- PO3071 CULTURAL DETERMINANTS OF UNDER FIVE YEAR CHILD FOOD CHOICE, PREFERENCE, PREPARATION AND FEEDING PRACTICES AMONG MOTHERS IN WESTERN KENYA**
O. Bethwell, The Catholic University of Eastern Africa
- PO3073 STREET FOOD AND ITS EFFECT ON SOCIETY AND CUSTOMER SATISFACTION IN MALANG CITY, EAST JAVA, INDONESIA**
B. Freytag-Leyer, Department of Nutritional, Food and Consumer Sciences, University of Applied Sciences Fulda, Fulda, Hesse, Germany
- PO3074 TO WHAT EXTENT ARE DIETARY SHIFTS A POTENTIAL LEVER TO REDUCE GREENHOUSE GAS EMISSIONS? A SIMULATION STUDY**
G. Masset, UMR NORT (Nutrition, Obesite et Risque Thrombotique) INRA1260, INSERM 1062, Aix-Marseille Universite , France
- PO3077 USING AGRICULTURE FOR IMPROVED NUTRITION: A CASE STUDY OF A USAID 'FEED THE FUTURE' INTEGRATED PROJECT IN SENEGAL**
L. Du, John Snow Inc, Arlington, VA, USA
- PO3078 CONSUMER LITERACY ON NUTRITION LABELLING AND FACTORS PREDICTING ITS USE IN MULTICULTURAL SINGAPORE**
C. Au, Nanyang Technological University (NTU), Singapore
- PO3079 THE SMALLER THE PIECE THE HEALTHIER CONSUMPTION - A CHOICE ARCHITECTURAL EXPERIMENT IN BEHAVIOURAL NUTRITION**
L. Rohden Skov, Meal Science & Public Health Nutrition, Department of Development & Planning, Aalborg University, Copenhagen, Denmark
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K. Schmidt, Roskilde University, Roskilde, Denmark
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A E. Özen, Research Group on Community Nutrition and Oxidative Stress, University of Balearic Islands, E-07122 Palma de Mallorca, Spain, and CIBER: CB12/03/30038 Fisiopatología de la Obesidad y la Nutrición, CIBERobn, Instituto de Salud Carlos III (ISCIII), Spain
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S. Benjelloun, Consultant, Rabat, Morocco
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E. Morgan, Leverhulme Centre for Integrative Research in Agriculture and Health, London, UK
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C S P. Santos, REQUIMTE, Faculty of Pharmacy, Oporto University, Portugal
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N. Subedi, Nepal Public Health Foundation, Nepal
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S. Taechangam, Institute of Nutrition, Mahidol University, Thailand
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C. Pachotikarn, Institute of Nutrition, Mahidol University, Thailand
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J. Osei, Centre of Excellence for Nutrition, North-West University, Potchefstroom, South Africa
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S. Ghosh-Jerath, Institute of Public Health-Delhi, Public Health Foundation of India, New Delhi, India
- PO3096 COMMUNITY-LED FORMATIVE RESEARCH TO DETERMINE PRIORITY NUTRITION BEHAVIORS FOR AN INNOVATIVE PARTICIPATORY VIDEO FEASIBILITY STUDY**
P. Koniz-Booher, Strengthening Partnerships, Results and Innovations In Nutrition Globally (SPRING), Arlington, VA, USA
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N I. Lipoeto, Department of Nutrition Faculty of Nutrition, Andalas University, Java, Indonesia
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A B. Andersen, WorldFish, Bangladesh
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R. Shikuri, Masinde Muliro University of Science and Technology, Kenya
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N. Hall, Department of Animal and Wildlife Sciences, University of Pretoria, Pretoria, South Africa
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L. Ba, Department of Nutrition and Food Safety, Chaoyang District Centre for Disease Prevention and Control, Beijing, China
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F. Auler, Nutrition Course - School of Health and Biosciences, Pontifical Catholic University of Parana, Brazil
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S. Li, Institute of Nutrition and Food Safety, Liaoning Center For Disease Control and Prevention, China
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M. Nakamori, Japan International Cooperation Agency, Addis Ababa, Ethiopia
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M. Nakamori, Japan International Cooperation Agency, Addis Ababa, Ethiopia
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L. Bechiri, Laboratory of Nutrition and Food Technology (LNTA), Skikda, Algeria
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S. Edalati, Faculty of Health & Nutrition, Tabriz University of Medical Science, Iran
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Z. Mohd Shariff, Universiti Putra Malaysia, Serdang, Selangor, Malaysia
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V. Melo, Universidad Autonoma Metropolitana-X, Mexico, D.F., Mexico
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M. Khatibi, Deputy of Treatment, Keram University of Medical Sciences, Iran
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V. Oates, Tennessee State University, Nashville, USA
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O. Christine, Gulu University, Gulu, Uganda
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S. Sinharoy, Helen Keller International, Dhaka, Bangladesh
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R. Ridolfi, Helen Keller International, Dhaka, Bangladesh
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R. Hoffmann, ESALQ, University of São Paulo, Piracicaba, Brazil
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C. Rosaneli, School of Health and Biosciences, Pontificia Universidade Catolica do Parana, Curitiba, Parana, Brazil
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T. Schaezel, The Manoff Group, Washington, USA
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D P. Chao, Department of Tourism and Leisure Management, China University of Technology, Hsinchu, Taiwan

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M F F. Nusha, Department of Biochemistry, Faculty of Medical Sciences, University of Sri Jayewardenepura, Sri Lanka
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R. Verstraeten, Department of Food Safety and Food Quality, Ghent University, Ghent, Belgium
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A M N T. Adikari, Wayamba University of Sri Lanka, Sri Lanka
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P. Tapanee, Institute of Nutrition, Mahidol University, Nakornpathom, Thailand
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A. Magalhães, Universidade Federal da Grande Dourados, Dourados, Brazil
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J. Dixon, NCEPH, Australian National University, Canberra, Australia
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O. Perez, Universidad Intercultural Maya De Quintana Roo, Quintana Roo, Mexico
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O. Perez, Universidad Intercultural Maya De Quintana Roo, Quintana Roo, Mexico
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A H. Mollik, Department of Natural and Social Sciences, Participatory Advancement Social Service, Bangladesh
- PO3130 MEDITERRANEAN DIET IN NON-NATIVE ALGARVE RESIDENTS**
M. Martins, Centro de Estudos e Desenvolvimento em Saude, Escola Superior de Saude da Universidade Do Algarve, Portugal
- PO3131 THE MEDITERRANEAN DIET IN THE ALGARVE (PORTUGAL)**
M P. Mateus, Centro de Estudos e Desenvolvimento em Saude; Area Departamental de Nutrição e Dietetica; Escola Superior De Saude Da Universidade Do Algarve, Portugal
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N. Singh, Department of Population Health, London School of Hygiene and Tropical Medicine, UK
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Y. Nakanishi, Koshien University, Momijigaoka, Japan
- PO3134 EVIDENCE OF THE NUTRITION TRANSITION IN AN ADULT MALE PUNJABI POPULATION IN MEDWAY, KENT UNITED KINGDOM**
P. Amuna, School of Science, University of Greenwich, UK
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A I. Mora Urda, Departamento de Biología, Universidad Autonoma Madrid, Madrid, Spain
- PO3136 DEMAND AND WILLINGNESS TO PAY FOR DIETARY DIVERSITY: RESULTS FROM AN EXPERIMENTAL APPROACH IN KASUNGU, MALAWI**
A. Korn, Department of Agricultural and Food Marketing, Faculty of Organic Agricultural Sciences, University Kassel, Witzenhausen, Germany
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L. Brito, Federal University Aracaju, Sergipe, Brazil
- PO3404 CHANGING HEALTH PARADIGMS - CAN THE CONCEPTS OF WELLNESS AND WELLBEING BUILD BRIDGES IN DIETARY COUNSELLING?**
A T. McMahon, School of Health Sciences, University of Wollongong, Australia
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A. Ali, Sultan Qaboos University, Muscat, Oman
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M E. Acosta, Universidad De Montemorelos, Nuevo Leon, Mexico
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Z. Islam, James P Grant School of Public Health, BRAC University, Dhaka, Bangladesh
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G. Molina Recio, University of Cordoba, Cordoba, Spain

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X. Han-You, Department of Internal and Emergency Medicine, Clinical Institute, Workers Hospital of Nanyang Textile Corporation, Nanyang City, Henan Province, China
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J. Shanker, Division of Agricultural Biochemistry, Kulbhaskar Ashram PG College, Allahabad, INDIA
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R. Kazemi, Young Researchers Club, Islamic Azad University of Lahijan, Iran
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S. Addou, Laboratoire de La Nutrition et de La Securite Alimentaire, Departement de Biologie Faculte des Sciences, Universite d' Oran, Algerie

- PO3143 PROTEIN DETERMINATION OF AN HYDROLYSED RICE-BASED INFANT FORMULA IN CHILDREN ALLERGIC TO COW'S MILK PROTEINS**
M. Amel, Laboratoire de La Nutrition et de La Securite Alimentaire, Universite D'Oran, Oran, Algiers
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E. El-Kholi, Nutrition & Food Science Department, Faculty of Home Economics, Menufiya University, Egypt
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A. Ahmed, Department of Food hygiene, Suez Canal University, EL SALAM DISTRICT, ISMAILEYA, Egypt
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M. Popovic, Faculty of Agriculture, University of Novi Sad, Novi Sad, Serbia
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H. Ofori, Food Chemistry Division, CSIR-Food Research Institute, Accra, Ghana
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M. Agiang, Department of Biochemistry, University of Calabar, Calabar, Nigeria
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H R. Etebarian, Islamic Azad University Shahr-e-Rey Branch, Tehran, Iran
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H R. Etebarian, Islamic Azad University Shahr-e-Rey Branch, Tehran, Iran
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A. Canella Avelar, Department of Animal Sciences, University Federal of Minas Gerais, Belo Horizonte, Brazil
- PO3154 CONTAMINATION BY INDUSTRIAL EFFLUENTS ON SOIL WATER & PLANT & SYSTEMS IN UTTAR PRADESH INDIA**
S. Sachan, G.B.Pant University of Agriculture & Technology, Tehri Garhwal, India
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V. Oliveira, Nutrition course, Department of Internal Medicine, Universidade Federal do Rio Grande do Sul (UFRGS), Ramiro Barcelos, Porto Alegre, RS, Brasil
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V. Oliveira, Nutrition course, Department of Internal Medicine, Universidade Federal do Rio Grande do Sul (UFRGS), Ramiro Barcelos, Porto Alegre, RS, Brazil
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E. Konecka-Matyjek, Department of Food and Food Supplements, The National Food and Nutrition Institute, Warsaw, Poland
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E. Konecka-Matyjek, Department of Food and Food Supplements, The National Food and Nutrition Institute, Warsaw, Poland
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I. Turan, School of Home Economics, University of Ankara, Turkey
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N. Katayama, Nagoya Women's University, Aichi, Japan
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S R. Vemula, Food and Drug Toxicology Research Centre, National Institute of Nutrition, Hyderabad, Andhra Pradesh, India
- PO3162 DEVELOPMENT AND EVALUATION OF AMARANTH GRAIN BASED COMPLEMENTARY FOODS SUPPLEMENTED WITH EDIBLE TERMITES AND DAGAA FISH**
J N. Kinyuru, Jomo Kenyatta University of Agriculture & Technology, Nairobi, Kenya
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L. Effah-Manu, Kwame Nkrumah University of Science and Technology, Department of Food Science and Technology, Kumasi, Ghana
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M R. Sabran, Department of Nutrition and Dietetics, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Serdang, Selangor, Malaysia
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N. Okishima, Faculty of Human Health Science, Matsumoto University, Matsumoto, Japan
- PO3166 OXIDATIVE MODIFICATION OF PROTEINS-DIET INDUCED GUT OXIDATIVE STRESS AND MICROBIOTA DYSBIOSIS IN MICE**
G. Le, The State Key Laboratory of Food Science and Technology, JiangNan University, Wuxi, China
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O. Adepoju, University of Ibadan, Ibadan, Nigeria
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R. Alvarez, Department of Nutrition, Faculty of Medicine, University of Chile, Chile
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C. Strassner, Department of Home Economics Nutrition Science & Facility Management, University of Applied Sciences Muenster, Muenster, Germany
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H. McWhinney, Department of Chemistry, Prairie View A&M University, Texas, USA
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H. Kuwada, Department of Nutrition and Life Science, Fukuyama University, Fukuyama, Hiroshima, Japan

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M. Fuchigami, Department of Nutrition and Life Science, Fukuyama University, Fukuyama, Hiroshima, Japan
- PO3173 INFLUENCE OF SPICES ON THE FOOD INTAKE BY IMPROVING FLAVOR**
K. Kubota, Department of Food and Nutritional Sciences, Graduate School of Humanities and Sciences, Ochanomizu University, Bunkyo, Japan
- PO3174 ASSESSMENT OF GREEN AND MONTMORILLONITE CLAYS AS POTENTIAL MYCOTOXIN ADSORBENTS IN HUMAN INTESTINAL CACO-2 CELLS**
A. Anadon, Department of Toxicology and Pharmacology, Faculty of Veterinary Medicine, Universidad Complutense de Madrid, Madrid, Spain
- PO3175 OPINION POLL OF USERS WITH RESTRICTIVE DIETS AND FOOD SERVICE PROFESSIONALS. DESIGN OF TRAINING PROPOSALS FOR COMMERCIAL CATERING**
M. Illan, Departament de Nutrition & Food Science, University of Barcelona, Campus de L'Alimentacio Torribera, Santa Coloma de Gramenet, Barcelona, Spain
- PO3176 HEAVY METAL ANALYSIS OF FRUIT JUICE AND SOFT DRINKS BOUGHT FROM RETAIL MARKET IN ACCRA, GHANA**
H. Ofori, Food Chemistry Division, CSIR-Food Research Institute, Accra, Ghana
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K. Akiyama, Department of Human Health and Design, Showa Women's University, Tokyo, Japan
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B. Gorgulho, Universidade de São Paulo, São Paulo, Brazil
- PO3179 CHEMICAL COMPOSITION OF SIX MEXICAN CULTIVARS OF MANGO INDOSTANO (MANGUIFERA INDICA L.)**
J.A. Salazar-Montoya, Department of Biotechnology and Bioengineering, CINVESTAV-IPN, Mexico DF, Mexico
- PO3180 PLANT EXTRACT IN REDUCING NEGATIVE EFFECTS OF AFLATOXIN B1 ON OXIDATIVE STRESS AND INFLAMMATION IN SWINE PERIPHERAL BLOOD MONONUCLEAR CELLS**
D. Marin, Laboratory of Animal Biology, INCDBNA Balotesti, Calea Bucuresti nr.1, Balotesti, cod 077015, Romania
- PO3181 DIETARY ZEARALENONE INDUCES ALTERATION IN SPLEEN INFLAMMATORY RESPONSE BY MODULATION OF METALLOPROTEINASE, NUCLEAR RECEPTORS AND MAPKS GENE EXPRESSION**
G. Pistol, National Institute for Research and Development for Biology and Animal Nutrition, Romania
- PO3182 EFFECT OF PARBOILING ON AND SEASONAL VARIATIONS THE ARSENIC CONTENT IN THE MARINE BROWN ALGA 'SARGASSUM HORNERI'**
K. Murakami, Department of Food Sciences and Biotechnology, Hiroshima Institute of Technology, 2-1-1 Miyake, Saeki-ku, Hiroshima, Japan
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H. Mojska, Department of Food and Food Supplements, National Food and Nutrition Institute, Warsaw, Poland
- PO3184 ASSESSMENT OF THE QUALITY OF SALT IODISATION IN POLAND**
K. Stos, Department of Food and Food Supplements, National Food and Nutrition Institute, Warsaw, Poland
- PO3185 REVALUATION OF MULBERRY TREE FROM A NUTRITIONAL POINT OF VIEW**
R. Lopez-Nicolas, Dpto of Food Science and Nutrition, University of Murcia, Murcia, Spain
- PO3186 ADOLESCENTS OVERESTIMATE EFFECT ENERGY DRINKS**
S. Peters, The Netherlands Nutrition Centre, The Hague, The Netherlands
- PO3187 ESTIMATION OF TARTRAZINE (E 102) INTAKE BY POLISH POPULATION**
I. Traczyk, Department of Nutrition and Dietetics with Clinic of Metabolic Diseases and Gastroenterology, National Food and Nutrition Institute, Warsaw, Poland
- PO3188 ASSESSMENT OF FOOD WASTE IN NUTRITION AND FOOD SERVICE BEFORE, DURING AND AFTER CONCERNING CAMPAIGN**
R. Vieira, Departamento de Nutrição, Universidade Estadual Do Centro Oeste-UNICENTRO, Guarapuava, Parana, Brasil
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E. Wentzel-Viljoen, Centre of Excellence for Nutrition, North-West University, Potchefstroom, South Africa
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S.W. Gratz, Rowett Institute of Nutrition and Health, University of Aberdeen, UK
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R. Monti, Faculdade de Ciencias Farmaceuticas, UNESP Univ Estadual Paulista, Sao Paulo, Brazil
- PO3192 MEALS PRODUCTION AND SUSTAINABILITY: ASSESSMENT OF WASTE GENERATION IN AN UNIVERSITY RESTAURANT**
L. Seabra, Nutrition Department, Federal University of Rio Grande do Norte, Natal, Brazil
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L. Seabra, Department of Nutrition, Centre of Health Sciences, Federal University of Rio Grande do Norte, Brazil
- PO3194 EFFECT OF LYOPHILIZATION PROCESS ON PROFILE OF FAT ACIDS IN AVOCADO PULP**
E. Valdes, Behavioral Feeding and Nutrition Research Center, Cusur, University of Guadalajara, Jalisco, Mexico
- PO3195 STRATEGIES FOR THE IMPROVEMENT OF THE NUTRITIVE QUALITY AND ENERGY VALUE OF THE TRADITIONAL" MURCIA'S MEAT PIE"**
D. Ruiz-Cano, Universidad of Murcia, Murcia, Spain
- PO3196 ESSENTIAL MINERAL COMPOSITION OF CASHEW APPLE POWDER FROM VENEZUELA**
A. Bravo, Laboratory of Research and Development in Nutrition (LIDN), University of Zulia, Maracaibo, Venezuela
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A. Nicolau, Department of Public Health Nutrition, Federal University of The State of Rio de Janeiro, Rio de Janeiro, Brazil
- PO3198 FORTIFICATION OF RICE WITH MICRO-NUTRIENTS USING HIGH PRESSURE PROCESSING**
N. Thiruselvam, Food Science and Technology, School of Chemical Engineering, The University of New South Wales Sydney, Australia
- PO3199 CONSUMERS WITH THE INFORMATION ON THE GENETICALLY MODIFIED FOOD LABELING: EVIDENCE STUDY**
J. Sanz-Valero, Department of Public Health and History of Science, Miguel Hernandez University, Elche, Spain

PO3200 DEVELOPMENT OF MULTIPLEX PCR ASSAY TO FRAUD IDENTIFICATION IN SAUSAGES

F. Tafvizi, Department of Biology, Parand Branch, Islamic Azad University, Tehran, Iran

PO3201 THE SOME LIVER PROTECTION CHARACTERISTICS OF ARTICHOKE "CYNARA SCOLYMUS" ACCLIMATED IN MONGOLIA

P. Mejeenov, Department of Nutrition, Food and Biotechnology School, Mongolian University Science and Technology, Mongolia

PO3202 SEASONAL DIFFERENCES IN DIETARY DIVERSITY AND FOOD SECURITY AMONG WOMEN HORTICULTURALISTS: A STUDY IN EASTERN MALI

M. C. Dop, Institut de Recherche Pour le Developpement, Montpellier, France

PO3203 ECONUTRITION WITHIN REACH: A FRAMEWORK TO ASSIST DECISION-MAKING IN LARGE-SCALE NUTRITION INTERVENTIONS

J. Fanzo, Institute of Human Nutrition, Columbia University, New York, NY, USA

PO3204 WHOLE GRAINS: SCIENTIFIC RATIONALE FOR DIETARY GUIDANCE, WHOLE GRAIN FOOD DEFINITION AND PRODUCT INNOVATION

M. Tucker, General Mills Bell Institute of Health and Nutrition, Golden Valley, USA

PO3206 EFFECT OF MICROWAVE IRRADIATION VS HEATING BY CONVENTIONAL METHOD ON THE IN VITRO DIGESTIBILITY OF BOVINE WHEY

I. Bouchikhi, Laboratory of Physiology of the Nutrition and Food Safety, Department of Biology, University of Oran, Es-Senia, Oran, Algeria

PO3207 STORAGE OF THE PACKED FOOD AND FOOD QUALITY

A. Benini, Mentouri Constantine University, INATAA, Algeria

PO3208 AN UNDERUTILISED FRUIT OF MANGIFERA PAJANG KOSTERMANS INCREASES ANTIOXIDANT STATUS IN PLASMA OF NORMOCHOLESTEROLEMIC SUBJECTS

M. Ibrahim, Department of Nutrition Sciences, Kuliyah of Allied Health Sciences, International Islamic University Malaysia, Jalan Istana, Bandar Indera Mahkota, Kuantan, Pahang, Malaysia

PO3209 IDENTIFYING SUSTAINABLE FOODS COMBINING LOW ENVIRONMENTAL IMPACT, HIGH NUTRITIONAL QUALITY, AND MODERATE PRICE

G. Masset, UMR NORT (Nutrition, Obesite et Risque Thrombotique) INRA1260, INSERM 1062, Aix-Marseille Universite, Marseille, France

PO3210 EVALUATION OF THE QUALITY OF BREAD SAMPLES PRODUCED FROM WHEAT (TRITICUM AESTIVUM) AND UNRIPE PLANTAIN (MUSA PRADISIACA) COMPOSITE FLOURS

I. Williams, University of Calabar, Calabar, Nigeria

PO3211 ASSESSMENT AND COMPARISON OF FLAVONOIDS CONTENT OF CALENDULA OFFICINALIS CULTIVATED BY DIFFERENT LEVELS OF COMPOST AND NITROGEN FERTILIZERS

A. Rezazadeh, Departement of Agriculture, Azad University of Chalous, Chalous, Iran

PO3212 ASSESSMENT OF THE NITROGEN AND COMPOST DIFFERENT LEVELS EFFECTS ON QUALITATIVE PERFORMANCE OF CALENDULA OFFICINALIS

A. Rezazadeh, Faculty of Agriculture, Azad University of Chalous, Chalous, Iran

PO3213 ASSESSMENT OF DIFFERENT PLANT DENSITY AND ARRANGEMENTS ON QUANTITATIVE AND QUALITATIVE PERFORMANCE OF CALENDULA OFFICINALIS

P. Farahpour, Faculty of Agriculture, Azad University of Chalous, Chalous, Iran

PO3214 THE POINT ON THE HEALTH CLAIM FOR OLIVE OIL: A MODEL SYSTEM TESTED TO MEASURE THE POLYPHENOLS CONTENT

E. Valli, Inter-Departmental Centre for Agri-Food Industrial Research, Alma Mater Studiorum - University of Bologna, Cesena, Italy

PO3215 THE PRESENCE OF AFLATOXINS IN PLANTS FOR INFUSION BEVERAGES

R. M. Melo, Faculdade de Farmacia, Centro Universitario São Camilo, São Paulo, Brasil

PO3216 SOY-BASED PROCESSED FOOD: A HEALTH RISK?

A. L. A. Brandão, Faculdade de Farmacia, Centro Universitario São Camilo, São Paulo, Brasil

PO3217 DEVELOPMENT OF HEALTHIER MUFFINS BY REDUCING THE CONTENT OF FAT AND SUGAR AND INCREASING FIBRE

G. Domenech-Asensi, Department of Food Science and Nutrition, Faculty of Veterinary Sciences, University of Murcia, Murcia, Spain

PO3218 EVALUATION OF PLASMA TRIGLYCERIDE LEVELS IN RATS AFTER INGESTION OF BAKERY PRODUCTS WITH REDUCED-FAT CONTENT

G. Domenech-Asensi, Department of Food Science and Nutrition, Faculty of Veterinary Sciences, University of Murcia, Murcia, Spain

PO3219 PACKAGE INSERTS HERBAL DRUGS CONTAINING SOYBEAN ISOFLAVONES: TOXICOLOGICAL INFORMATION

J. P. Vieira, Faculdade de Farmacia, Centro Universitario São Camilo, São Paulo, Brasil

PO3220 DETERMINATION OF TOTAL NITROGEN IN PARENTERAL NUTRITION SOLUTIONS FOR MICRO-KJELDAHL METHOD

D. Freitas, Faculdade de Farmacia, Centro Universitario São Camilo, Natal, Brasil

PO3221 EFFECT OF SPROUTING AND TEMPERATURE ON CRUDIVORISM DIET

C. Bonfanti Fiori, Department of Agro-industry, Foods and Nutrition of the Higher School of Agriculture "Luiz de Queiroz", University of São Paulo, Piracicaba, São Paulo, Brasil

PO3222 THE INCREASING ROLE OF AQUACULTURE IN PROTEIN SUPPLY: CAN WE MAKE IT ENVIRONMENTALLY SUSTAINABLE?

J. Dias, SPAROS Lda., CRIA, Universidade do Algarve, Faro, Portugal

PO3223 BEST PRACTICES IN BENEFIT-RISK ANALYSIS IN FOOD, NUTRITION AND OTHER AREAS

H. Verhagen, RIVM, Bilthoven, The Netherlands

PO3224 CAN FUNCTIONAL FOOD AND ORGANIC FOOD BE SUPPORTING CONCEPTS IN EUROPE?

S. Bügel, Department of Nutrition, Exercise, and Sports, University of Copenhagen, Copenhagen, Denmark

PO3225 IMPACTS OF THE WORLD GRAIN PRICE SPIKES IN 2008 ON THE UK HOUSEHOLDS

T. Tanaka, Rowett Institute of Nutrition and Health, University of Aberdeen, Aberdeen, UK

PO3226 ENVIRONMENTAL PREDICTORS OF FRUIT, VEGETABLE AND ANIMAL SOURCE FOOD CONSUMPTION IN THE EAST USAMBARA MOUNTAINS, TANZANIA

B. Powell, Centre for International Forestry Research, Bogor, Indonesia

PO3227 MEAL TRANSPORTATION: HOT CHAIN EVALUATION IN A BRASILIAN UNIVERSITY RESTAURANT

M. Carneiro, UFRJ - INJC, Rio de Janeiro, Brazil

PO3228 EFFECTS OF A HIGH-PROTEIN SOY DIET ON BRAIN OXIDATIVE STRESS IN RATS

D. Camiletti-Moiron, Department of Physiology and Institute of Nutrition and Food Technology, Faculty of Pharmacy and School of Sport Sciences, University of Granada, Granada, Spain

- PO3229 NA, K, CA, MG, FE, MN, CU, ZN, CR AND MO IN ENERGY DRINKS: NUTRITIONAL EVALUATION**
C. Rubio, Toxicology Department, University of La Laguna, 38071 La Laguna, S/C de Tenerife, Spain
- PO3230 INFLUENCE OF CONDITIONS OF DAIRY BOVINE BREEDING ON THE QUALITY OF MILK**
A. Mezoud, INATAA, University Mentouri Constantine, Cirta, Algeria
- PO3231 EVALUATING HYGIENE PRACTICES IN HOSPITAL FOOD SERVICES**
A. Cardonha, Department of Nutrition, Centre of Health Sciences, Federal University of Rio Grande do Norte, Natal, Brazil
- PO3232 FOOD SAFETY AND NUTRITION KNOWLEDGE OF URBAN SCHOOL CHILDREN**
H. Hardinsyah, Food and Nutrition Society of Indonesia and Department of Community Nutrition, Bogor Agricultural University, Kampus IPB, Jl Raya Darmaga, Bogor, Indonesia
- PO3233 THE RELATION BETWEEN DIETARY HABITS AND URINARY LEVELS OF 3-PHENOXY BENZOIC ACID, A PYRETHROIDS METABOLITE**
C R. Fortes, Epidemiologia, Istituto Dermopatico dell'Immacolata, IDI-IRCCS, Rome, Italy
- PO3234 EFFECT OF NISIN ON BIOCHEMICAL PARAMETERS**
E B. Giuntini, Food and Nutrition Research Center/University of São Paulo (NAPAN/USP) and FoRC/CEPID/FAPESP, São Paulo, Brazil
- PO3235 INDICATORS OF NON-ENZYMATIC BROWNING IN THE EVALUATION OF HEAT DAMAGE AND AVAILABLE LYSINE CONTENT IN SPANISH COMMERCIAL INFANT FORMULAS**
J. Contreras, Department of Food, Faculty of Pharmaceutical Chemistry, University of Antioquia, City University, Medellin, Colombia
- PO3236 EFFICACY OF ZINC SUPPLEMENTATION ON IMPROVEMENT OF WEIGHT AND HEIGHT GROWTH OF HEALTHY 9-18 YEAR CHILDREN IN IRAN**
F. Kaseb, Yazd University of Medical Sciences, Yazd, Iran
- PO3237 DIVERSITY OF VEGETABLES AVAILABLE IN BRAZILIAN HOUSEHOLDS: DATA FROM THE 2008-2009 HOUSEHOLD BUDGET SURVEY**
R. Pereira, Departamento de Nutrição Social e Aplicada, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil
- PO3238 HUNGER IN THE MIDST OF PLENTY: THE NEED FOR PROMOTING NUTRITION THROUGH AGRICULTURE EXTENSION SERVICES**
C. Nyhus Dhillon, Helen Keller International, Tanzania
- PO3239 NEW DATA ON THE PRESENCE OF ORGANOCHLORINE PESTICIDE RESIDUES IN BREAST MILK FROM MOTHERS IN A CENTRAL AREA OF TRANSYLVANIA**
D. Miere, University of Medicine and Pharmacy 'Iuliu Hatieganu' Cluj-Napoca, Cluj-Napoca, Romania
- PO3241 MICROBIAL QUALITY OF FROZEN CHICKEN MEAT AT GROCERY STORES IN QENA GOVERNORATE**
J. Daoud, South Valley University, Qena, Egypt
- PO3242 ANALYSIS OF NUTRIENT COMPOSITION OF TIGER NUT MILK**
I. Hamzat, Obafemi Awolowo University, Osun, Nigeria
- PO3243 GENETIC VARIATIONS IN FE AND ZN CONTENTS OF GRAIN IN IRANIAN WHEAT LANDRACES**
B. Heidari, Department of Crop Production and Plant Breeding, College of Agriculture, Shiraz University, Shiraz, Iran
- PO3244 GENETIC VARIATION AND INTERRELATIONSHIP OF SEED MUCILAGE, SWELLING FACTOR AND AGRONOMIC PROPERTIES IN PLANTAGO OVATA**
B. Heidari, Department of Crop Production and Plant Breeding, College of Agriculture, Shiraz University, Shiraz, Iran
- PO3245 BIODIVERSITY AND INTERRELATIONSHIP OF MICRONUTRIENTS AND BAKING QUALITY IN WHEAT LANDRACES**
N. Daneshnia, Department of Plant Protection, Shiraz University, Shiraz, Iran
- PO3246 GENETIC DIVERSITY IN MUCILAGE CONTENT OF PLANTAGO MAJOR**
N. Daneshnia, Department of Plant Protection, College of Agriculture, Shiraz University, Iran
- PO3247 EFFICACY OF MALIC ACID AND MODIFIED ATMOSPHERE PACKAGING AGAINST CAMPYLOBACTER JEJUNI IN POULTRY**
E. Gonzalez-Fandos, University of La Rioja, Logroño, Spain
- PO3248 EFFICACY OF TRISODIUM PHOSPHATE AGAINST SALMONELLA ATTACHED TO POULTRY SKIN DURING REFRIGERATED STORAGE**
E. Gonzalez-Fandos, University of La Rioja, Logroño, Spain
- PO3249 NUTRITIONAL AND SENSORY STABILITY OF STORED HOME MADE ROSELLE JUICE**
O. Ashaye, Obafemi Awolowo University, Institute of Agricultural Research and Training, Osun, Nigeria
- PO3250 STUDY ON HISTAMINE CONTENT IN ROHU FISH (Labeo rohita) SOLD IN NEPALESE MARKETS**
K P. Rai, Department of Food Technology and Quality Control, Central Food Laboratory, Kolkata, Nepal
- PO3251 OXIDATIVE STABILIZATION OF COOKING OIL BLEND WITH LEAF EXTRACT OF EUCALYPTUS CITRIODORA**
S A S. Chatha, Institute of Chemistry, Government College University, Faisalabad, Pakistan
- PO3252 COMPARATIVE EFFECT OF DIFFERENT SMOKING PROCESS ON BIOCHEMICAL, MICROBIAL AND SENSORY CHARACTERISTICS OF PACIFIC OYSTER CRASSOSTREA GIGAS**
S. Selmi, Institut National de Nutrition et de Technologie Alimentaire, Tunis, Tunisia
- PO3253 FOOD AUTHENTICITY FOR FOOD SAFETY**
A. Obiedzinska, General Economics Department, Institute of Agricultural and Food Economics, National Research Institute, Warsaw, Poland
- PO3254 COMPARISON OF THE SENSORY CHARACTERISTICS OF COMMERCIAL RED PEPPER POWDER PRODUCED IN ASIAN COUNTRIES**
J H. Yang, World Institute of Kimchi, Gwangju, Republic of Korea
- PO3255 ECO NUTRITION. RETHINKING ASSESSMENT OF NUTRITION AND CLIMATE IMPACT IN PUBLIC PROCUREMENT STRATEGIES – CASE-INSIGHTS FROM INTERVIEWS WITH FOODSERVICE PROFESSIONALS**
B E. Mikkelsen, AAU.MENU, Aalborg University, Copenhagen, Denmark
- PO3256 RELATIONSHIP BETWEEN CHEMICAL PROPERTIES AND SENSORY EVALUATION IN COMMERCIAL KIMCHI**
M A. Lee, World Institute of Kimchi, Seo-gu, Kwangju-si, Republic of Korea
- PO3257 OXIDATION AND HYDROLYTIC PROFILES OF CORNICABRA VIRGIN OLIVE OILS OBTAINED FROM OLIVE FRUITS HARVESTED AT THREE DIFFERENT MATURATION DEGREES**
R. Olivero-David, Instituto Madrileño de Investigación Agraria y Desarrollo Rural Agrario y Alimentario. Madrid, Spain
- PO3258 THERMAL OXIDATION IN THREE DIFFERENT PICUAL EXTRA VIRGIN OLIVE OILS DURING POTATO FRYING**
R. Olivero-David, Instituto Madrileño de Investigación Agraria y Desarrollo Rural Agrario y Alimentario. Madrid, Spain

- PO3259 SHORT-TERM DIGESTIBILITY OF KETOLINOLEIC ACIDS AND TOTAL OXIDIZED FATTY ACIDS IN FASTED AND NON-FASTED RATS**
S. Bastida, Universidad Complutense de Madrid, Madrid, Spain
- PO3260 NUTRITIONAL DIVERSITY OF NATIONAL FOOD SYSTEMS LINKED TO CHILD NUTRITION**
R. Remans, The Earth Institute at Columbia University, Palisades, USA
- PO3261 ASSESSMENT OF CAFETERIA MENUS WITH NUTRIENT PROFILING MODELS**
D. Dikmen, Hacettepe University Faculty of Health Sciences Nutrition and Dietetics Department Ankara, Ankara, Turkey
- PO3262 CONSUMERS' WILLINGNESS TO EAT CHOLESTEROL-LOWERING FOODS: THE ROLE OF FAMILIARITY, BELIEFS AND ATTITUDES**
E. Babicz-Zielinska, Department of Trade and Services, Gdynia Maritime University, Poland
- PO3263 IMPACT OF NUTRITIONAL CLAIMS ON CONSUMERS' ACCEPTANCE OF CHEESE WITH MODIFIED SALT CONTENT**
M. Jezewska-Zychowicz, Department of Organization and Consumption Economics, Warsaw University of Life Sciences, Poland
- PO3264 DETERMINANTS OF WILLINGNESS TO EAT YOGHURTS WITH PROBIOTICS AMONG POLISH CONSUMERS**
A. Dabrowska, Department of Trade and Services, Gdynia Maritime University, Gdynia, Poland
- PO3265 KINETIC CHARACTERIZATION OF SOLUBLE AND MEMBRANE-BOUND PEROXIDASES FROM RED CABBAGE (BRASSICA OLERACEA)**
M I. Fortea Gorbe, Universidad Catolica San Antonio Murcia, Murcia, Spain
- PO3266 FURAN AND PRECURSORS IN CANNED VEGETABLES AND FRUIT JUICES**
E. Guerra-Hernandez, Dpto. Nutricion y Bromatologia, Universidad de Granada, Granada, Spain
- PO3267 ACRYLAMIDE FORMATION IN DIFFERENT BATTER AND BREADING FORMULATION DURING DEEP-FRYING OF ZUCCHINI AND EXPOSURE ESTIMATION**
E. Guerra-Hernandez, Dpto. Nutricion Y Bromatologia. Universidad De Granada, Granada, Spain
- PO3269 MAILLARD REACTION IN THE STANDARD DIET FOR TYPE 2 DIABETIC PATIENTS**
B. Garcia-Villanova, Department of Nutrition and Food Science, Faculty of Pharmacy, University of Granada, Granada, Spain
- PO3270 EVALUATION OF MAILLARD REACTION IN THE DIET FOR TYPE 2 DIABETICS APPLYING INTENSE HEAT TREATMENT**
B. Garcia-Villanova, Department of Nutrition and Food Science, Faculty of Pharmacy, University of Granada, Granada, Spain
- PO3271 FACTORS MOTIVATING HOME GARDEN CHOICES AFFECTING DIETARY DIVERSITY IN BANGLADESH**
A. Nayaran, The Manoff Group, Washington, USA
- PO3272 DIETARY FIBRE AND PROXIMATE COMPOSITION OF SOME SELECTED GHANAIAN UNDERUTILISED FRUITS**
A. Boakye, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana
- PO3273 INTEREST FOR NATURAL PRODUCTS AMONG BRAZILIAN YOUNG WOMEN IS RELATED TO CONCERN ABOUT HEALTHY EATING**
P. Koritar, Faculdade de Saude Publica, Universidade de São Paulo, Sao Paulo, Brazil
- PO3274 EFFECT OF ELECTROLYZED WATER ON FERMENTATION OF GLUTEN-FREE RICE BREAD**
T. Yamaguchi, Faculty of Education, Niigata University, Niigata, Niigata, Japan
- PO3275 REGULATION (EC) N° 1924/2006 ON NUTRITION AND HEALTH CLAIMS MADE ON FOODS: FISH AND SEAFOOD CONSUMPTION PROMOTION IN SPAIN**
T. Valero, Fundacion Española de la Nutricion (FEN), Madrid, Spain
- PO3276 FOOD AND NUTRITION ASSEMENT IN AFRICAN RURAL COMMUNITIES(UGANDA CASE)**
E. Namutebi, Safe Citizens Uganda Foundation, Kamapala, Uganda
- PO3277 MICROBIOLOGICAL STABILITY OF COOKIES FORMULATED WITH CASHEW APPLE POWDER**
A. Bravo, Laboratory of Research and Development in Nutrition (LIDN), University of Zulia, Zulia, Venezuela
- PO3278 WHAT A CITY COUNCIL CAN DO TO IMPROVE THE QUALITY OF LIFE IN THE ELDERLY?**
M A. Roset-Elias, Commissioner With Responsibility For Senior Citizens At Barcelona City Council, Barcelona, Spain
- PO3279 NUTRIENT COMPOSITION STUDIES ON MARGINALISED LANDRACES OF RICE, MAIZE, SORGHUM AND KIDNEY BEAN COLLECTED FROM FRAGILE ECOSYSTEMS OF INDIA**
R. Bhardwaj, Indian Council of Agricultural Research, Delhi, India
- PO3280 PHYSICO-CHEMICAL PROPERTIES OF SOME HONEY PRODUCED IN THE UNITED ARAB EMIRATES**
I. Achouri, Ibn Tofail University, Kenitra, Morocco
- PO3281 GENETICALLY MODIFIED FOOD PLACED ON THE POLISH MARKET IN THE YEARS 2007-2010**
I. Traczyk, Department of Nutrition and Dietetics with Clinic of Metabolic Diseases and Gastroenterology, National Food and Nutrition Institute, Warsaw, Poland
- PO3282 ANALYSIS OF WASTE IN A RESTAURANT FOOD INDUSTRIAL MARANHÃO - BRAZIL**
N. Cabral, University Ceuma, Sao Luis, Brazil
- PO3283 QUANTIFICATION OF ANTINUTRITIONAL SUBSTANCES IN THE FRUITS OF GLEDITSIA TRIACANTHOS L. IN ALGERIA**
B. Samia, Laboratory of Vegetal Biodiversity, Conservation & valorization, Faculty of Sciences, University Djillali Liabes of Sidi Bel Abbes, Algeria
- PO3285 HEALTH BENEFIT CLAIMS AND DAIRY PRODUCTS**
Z. Du Plooy, Institute of Food, Nutrition and Wellbeing, University of Pretoria, Pretoria, South Africa
- PO3286 THE IMPACT MINIMALLY POSTHARVEST HANDLING OF FRUITS AND VEGETABLES ON FOOD SAFETY IN REMOTE AREA IN TIMOR-INDONESIA**
J E R. Markus, Faculty of Agricultural, Nusa Cendana University D.R Agroteknologi, Fakultas Pertanian UNDANA, Kupang, NTT, Indonesia
- PO3287 IMPACT OF SUSTAINABLE PRODUCTION OF PALM OIL ON HOUSEHOLD LIVING STANDARD AND ENVIRONMENT: EXAMPLE OF APPLYING CONTRACT FARMING IN INDONESIA**
L. Valešova, Department of Economic Development, Faculty of Tropical AgriSciences, University of Life Sciences Prague, Praha, Czech Republic
- PO3288 CHOICES PROGRAMME NUTRIENT PROFILING MODEL: EVALUATION OF LABELLED FOODS MARKETING IN ANKARA, TURKEY**
D. Dikmen, Hacettepe University Faculty of Health Sciences Nutrition and Dietetics Department Ankara, Ankara, Turkey
- PO3289 FOOD SECURITY AND THE DEVELOPMENT OF URBAN AGRICULTURE IN ACCRA, GHANA**
C. Afful, Department of Economic Development, Faculty of Tropical AgriSciences, Czech University of Life Sciences, Praha, Czech Republic

- PO3290 PATHWAYS FOR SUSTAINABLE FOOD SAFETY**
V. Iyengar, Biomineral Sciences, rockville, USA
- PO3291 ASSESSMENT TOOL FOR EDUCATIONAL PROGRAM UNDER THE PERSPECTIVE OF PROMOTION OF FOOD AND NUTRITION SECURITY IN BRAZIL**
J. Campos, Nutrition Department, Faculty of Health Sciences, University of Brasilia, Brasilia, Brazil
- PO3292 FEDERAL INSTITUTE OF EDUCATION, SCIENCE AND TECHNOLOGY GOIANO – CAMPUS CERES AND PROFESSIONAL QUALIFICATION OF WOMEN IN THE FIELD OF FOOD**
J. Campos, Department of Nutrition, Faculty of Health Sciences, University of Brasilia, Brasilia, Brazil
- PO3293 DEVELOPMENT OF A METALLOPORPHYRIN COATED FOIL FOR THE DETECTION OF VOLATILE AMINES ORIGINATING FROM FOOD SPOILAGE PROCESSES**
T. Bohn, Environment and Agro-Biotechnologies Department, Centre De Recherche Public - Gabriel Lippmann, Belvaux, Luxembourg
- PO3294 TRANSGENIC FOOD COMMERCIALIZATION IN SÃO PAULO CITY-BRAZIL**
D. Moscatelli, Health Sciences Institute, Paulista University-UNIP, São Paulo, Brazil
- PO3295 MANGOSTEEN PEEL (GARCINIA MANGOSTANA L.) EXTRACT FOR EFFERVESCENT TABLET**
W. Widowati, Medical Research Center, Faculty of Medicine, Maranatha Christian University, Bandung, Indonesia
- PO3296 CLASSIFICATION OF FOOD PRODUCTS ADVERTISED IN CHILEAN TELEVISION CHANNELS RELATED WITH THE NATIONAL ASSOCIATION OF TELEVISION DURING NOVEMBER 2010**
M. Crovetto, Facultad de Ciencias de la Salud, Centro de Estudios Avanzados. Universidad de Playa Ancha, Valparaiso, Chile
- PO3411 ESSENTIAL AND HAZARDS: IS SUGARCANE (SACCHARUM OFFICINARUM) MORE THAN AN EMPTY-CALORIE COMMODITY?**
A C. Avelar, Department of Animal Sciences, University Federal of Minas Gerais, Belo Horizonte, Brazil
- PO3412 INFLUENCE OF AGRICULTURAL BIODIVERSITY ON HOUSEHOLD FOOD SECURITY AND STUNTED GROWTH IN CHILDREN AGED 24-59 MONTHS IN RURAL KENYA**
S. Ochola, Department of Food, Nutrition and Dietetics, Kenyatta University, Nairobi, Kenya
- PO3413 MONITORING THE BENZENE CONTENTS IN DIFFERENT FOOD MATRICES BY HEADSPACE-GC/MS**
J H. Sung, Center for Food & Drug Analysis, Busan Regional Korea Food and Drug Administration, Busan, Republic of Korea
- PO3414 PROTEIN ENRICHED ARTICHOKE MEAL WITH HIGH NUTRITIONAL AND FUNCTIONAL VALUE**
M P. Carbonero Aguilar, Departamento de Bioquímica y Biología Molecular, Facultad de Farmacia, Universidad de Sevilla, Spain
- PO3415 PUBLIC PERCEPTION ON CLIMATE CHANGE AND ITS IMPACT ON FOOD SECURITY BASED ON EDUCATION ATTAINMENT AND GENDER IN BANGLADESH**
M F A. Banna, Food Planning & Monitoring Unit, Ministry of Food, Government of Bangladesh, Bangladesh
- PO3416 RESEARCH INFRASTRUCTURE IN THE EUROPEAN FOOD, NUTRITION AND PUBLIC HEALTH AREA: CURRENT INITIATIVES FROM EURODISH**
R. Dhonukshe-Rutten, Division of Human Nutrition, Wageningen University and Research Centre, the Netherlands

MONDAY	Screen 1	Screen 2	Screen 3	Screen 4	Screen 5	Screen 6	Screen 7	Screen 8	Screen 9
08:00-09:00	PO0001	PO0046	PO0091	PO0136	PO0181	PO0226	PO0271	PO0316	PO0361
	PO0002	PO0047	PO0092	PO0137	PO0182	PO0227	PO0272	PO0317	PO0362
	PO0003	PO0048	PO0093	PO0138	PO0183	PO0228	PO0273	PO0318	PO0363
	PO0004	PO0049	PO0094	PO0139	PO0184	PO0229	PO0274	PO0319	
	PO0005	PO0050	PO0095	PO0140	PO0185	PO0230	PO0275	PO0320	PO0365
09:00-10:00	PO0006	PO0051	PO0096	PO0141	PO0186	PO0231	PO0276	PO0321	PO0366
	PO0007	PO0052	PO0097	PO0142	PO0187	PO0232	PO0277	PO0322	PO0367
	PO0008	PO0053	PO0098	PO0143	PO0188	PO0233	PO0278	PO0323	PO0368
	PO0009	PO0054	PO0099	PO0144	PO0189	PO0234	PO0279	PO0324	PO0369
	PO0010	PO0055	PO0100	PO0145	PO0190	PO0235	PO0280	PO0325	PO0370
10:00-10:30									
10:30-11:30	PO0011	PO0056	PO0101	PO0146	PO0191	PO0236	PO0281	PO0326	PO0371
	PO0012	PO0057	PO0102	PO0147	PO0192	PO0237	PO0282	PO0327	PO0372
	PO0013	PO0058	PO0103	PO0148	PO0193	PO0238	PO0283	PO0328	PO0373
	PO0014	PO0059	PO0104	PO0149	PO0194	PO0239	PO0284	PO0329	PO0374
	PO0015	PO0060	PO0105	PO0150	PO0195	PO0240	PO0285	PO0330	PO0375
11:30-12:30	PO0016	PO0061	PO0106	PO0151	PO0196	PO0241	PO0286	PO0331	PO0376
	PO0017	PO0062	PO0107	PO0152	PO0197	PO0242			PO0377
	PO0018	PO0063	PO0108	PO0153	PO0198	PO0243	PO0288	PO0333	PO0378
	PO0019	PO0064	PO0109	PO0154	PO0199	PO0244	PO0289	PO0334	PO0379
	PO0020	PO0065	PO0110	PO0155	PO0200	PO0245	PO0290	PO0335	PO0380
12:30-13:30	PO0021	PO0066	PO0111	PO0156	PO0201	PO0246	PO0291	PO0336	PO0381
	PO0022	PO0067	PO0112	PO0157		PO0247	PO0292	PO0337	PO0382
	PO0023	PO0068	PO0113	PO0158	PO0203	PO0248	PO0293	PO0338	PO0383
	PO0024	PO0069	PO0114	PO0159	PO0204	PO0249	PO0294	PO0339	PO0384
	PO0025	PO0070	PO0115	PO0160	PO0205	PO0250	PO0295	PO0340	PO0385
13:30-14:30									
14:30-15:30	PO0026	PO0071	PO0116	PO0161	PO0206	PO0251	PO0296	PO0341	PO0386
	PO0027	PO0072	PO0117	PO0162	PO0207	PO0252	PO0297	PO0342	PO0387
	PO0028	PO0073	PO0118	PO0163	PO0208	PO0253	PO0298	PO0343	PO0388
	PO0029	PO0074	PO0119	PO0164	PO0209	PO0254	PO0299	PO0344	PO0389
	PO0030	PO0075	PO0120	PO0165	PO0210	PO0255	PO0300	PO0345	PO0390
15:30-16:30	PO0031	PO0076	PO0121	PO0166	PO0211	PO0256	PO0301	PO0346	PO0391
	PO0032	PO0077	PO0122	PO0167	PO0212	PO0257	PO0302	PO0347	PO0392
	PO0033	PO0078	PO0123	PO0168	PO0213	PO0258	PO0303	PO0348	PO0393
	PO0034	PO0079	PO0124	PO0169	PO0214	PO0259	PO0304		PO0394
	PO0035	PO0080	PO0125	PO0170	PO0215	PO0260	PO0305	PO0350	PO0395
16:30-17:00									
17:00-18:00	PO0036	PO0081	PO0126	PO0171	PO0216	PO0261	PO0306	PO0351	PO0396
	PO0037	PO0082	PO0127	PO0172	PO0217	PO0262	PO0307	PO0352	PO0397
		PO0083	PO0128	PO0173	PO0218	PO0263	PO0308		PO0398
		PO0084	PO0129	PO0174	PO0219	PO0264	PO0309	PO0354	PO0399
	PO0040	PO0085	PO0130	PO0175		PO0265	PO0310	PO0355	PO0400
18:00-19:00	PO0041	PO0086	PO0131	PO0176	PO0221	PO0266	PO0311	PO0356	
	PO0042	PO0087	PO0132	PO0177	PO0222	PO0267	PO0312	PO0357	PO0402
	PO0043	PO0088	PO0133	PO0178	PO0223	PO0268	PO0313	PO0358	PO0403
	PO0044	PO0089	PO0134	PO0179	PO0224	PO0269	PO0314	PO0359	PO0404
	PO0045	PO0090		PO0180	PO0225	PO0270	PO0315	PO0360	PO0405

MONDAY	Screen 10	Screen 11	Screen 12	Screen 13	Screen 14	Screen 15	Screen 16	Screen 17
08:00-09:00	PO0406	PO0451	PO0496	PO0541	PO0586	PO0631	PO0676	PO0721
	PO0407	PO0452	PO0497	PO0542	PO0587	PO0632	PO0677	PO0722
	PO0408	PO0453	PO0498	PO0543	PO0588	PO0633	PO0678	PO0723
	PO0409	PO0454	PO0499	PO0544	PO0589	PO0634	PO0679	PO0724
	PO0410	PO0455	PO0500	PO0545	PO0590	PO0635	PO0680	PO0725
09:00-10:00	PO0411	PO0456	PO0501	PO0546	PO0591	PO0636		PO0726
	PO0412	PO0457	PO0502	PO0547	PO0592	PO0637	PO0682	PO0727
	PO0413	PO0458	PO0503	PO0548	PO0593	PO0638	PO0683	PO0728
	PO0414	PO0459	PO0504	PO0549	PO0594	PO0639	PO0684	PO0729
	PO0415	PO0460	PO0505	PO0550	PO0595	PO0640	PO0685	PO0730
10:00 - 10:30								
10:30-11:30	PO0416	PO0461	PO0506	PO0551	PO0596	PO0641	PO0686	PO0731
	PO0417	PO0462	PO0507	PO0552	PO0597	PO0642	PO0687	PO0732
	PO0418	PO0463	PO0508	PO0553	PO0598	PO0643	PO0688	PO0733
	PO0419	PO0464	PO0509	PO0554	PO0599	PO0644	PO0689	PO0734
	PO0420	PO0465	PO0510	PO0555	PO0600	PO0645	PO0690	PO0735
11:30-12:30	PO0421	PO0466	PO0511	PO0556	PO0601	PO0646	PO0691	PO0736
	PO0422	PO0467	PO0512	PO0557	PO0602	PO0647	PO0692	PO0737
	PO0423	PO0468	PO0513	PO0558	PO0603	PO0648	PO0693	PO0738
	PO0424	PO0469	PO0514	PO0559	PO0604	PO0649	PO0694	PO0739
	PO0425	PO0470	PO0515	PO0560	PO0605	PO0650	PO0695	PO0740
12:30-13:30	PO0426	PO0471	PO0516	PO0561	PO0606	PO0651	PO0696	PO0741
	PO0427	PO0472	PO0517	PO0562	PO0607	PO0652	PO0697	PO0742
	PO0428	PO0473	PO0518	PO0563	PO0608	PO0653	PO0698	PO0743
	PO0429	PO0474	PO0519	PO0564	PO0609	PO0654	PO0699	PO0744
	PO0430	PO0475	PO0520	PO0565	PO0610	PO0655	PO0700	PO0745
13:30-14:30								
14:30-15:30		PO0476	PO0521	PO0566	PO0611	PO0656	PO0701	PO0746
		PO0477	PO0522	PO0567	PO0612	PO0657	PO0702	PO0747
	PO0433	PO0478	PO0523	PO0568	PO0613	PO0658	PO0703	PO0748
	PO0434	PO0479	PO0524	PO0569	PO0614	PO0659	PO0704	PO0749
	PO0435	PO0480	PO0525	PO0570	PO0615	PO0660	PO0705	PO0750
15:30-16:30	PO0436	PO0481		PO0571	PO0616	PO0661	PO0706	PO0751
	PO0437	PO0482	PO0527	PO0572	PO0617	PO0662	PO0707	PO0752
	PO0438	PO0483	PO0528	PO0573	PO0618	PO0663	PO0708	PO0753
	PO0439	PO0484	PO0529	PO0574	PO0619	PO0664	PO0709	PO0754
	PO0440		PO0530	PO0575	PO0620	PO0665	PO0710	PO0755
16:30 - 17:00								
17:00-18:00	PO0441	PO0486	PO0531	PO0576	PO0621	PO0666	PO0711	PO0756
	PO0442	PO0487	PO0532	PO0577	PO0622	PO0667	PO0712	PO0757
	PO0443	PO0488	PO0533	PO0578	PO0623	PO0668	PO0713	PO0758
	PO0444	PO0489	PO0534	PO0579	PO0624	PO0669	PO0714	PO0759
		PO0490	PO0535	PO0580	PO0625	PO0670	PO0715	PO0760
18:00-19:00	PO0446	PO0491	PO0536	PO0581	PO0626	PO0671	PO0716	PO0761
	PO0447	PO0492	PO0537	PO0582	PO0627	PO0672	PO0717	PO0762
	PO0448	PO0493	PO0538	PO0583	PO0628	PO0673	PO0718	PO0763
	PO0449	PO0494	PO0539	PO0584	PO0629	PO0674	PO0719	PO0764
		PO0495	PO0540	PO0585	PO0630	PO0675	PO0720	PO0765

TUESDAY	Screen 1	Screen 2	Screen 3	Screen 4	Screen 5	Screen 6	Screen 7	Screen 8	Screen 9
08:00-09:00	PO0766	PO0811	PO0856	PO0901	PO0946	PO0991	PO1036	PO1081	PO1126
	PO0767	PO0812	PO0857	PO0902	PO0947	PO0992	PO1037	PO1082	PO1127
	PO0768	PO0813	PO0858	PO0903	PO0948	PO0993	PO1038	PO1083	PO1128
	PO0769	PO0814	PO0859	PO0904	PO0949	PO0994	PO1039	PO1084	PO1129
	PO0770	PO0815	PO0860	PO0905	PO0950	PO0995	PO1040	PO1085	PO1130
09:00-10:00	PO0771	PO0816	PO0861	PO0906	PO0951	PO0996	PO1041	PO1086	PO1131
	PO0772	PO0817	PO0862	PO0907	PO0952	PO0997	PO1042	PO1087	PO1132
	PO0773	PO0818	PO0863	PO0908	PO0953	PO0998	PO1043	PO1088	PO1133
	PO0774	PO0819	PO0864	PO0909	PO0954	PO0999	PO1044	PO1089	PO1134
	PO0775	PO0820	PO0865	PO0910	PO0955	PO1000	PO1045	PO1090	PO1135
10:00 - 10:30									
10:30-11:30	PO0776	PO0821	PO0866	PO0911	PO0956	PO1001	PO1046	PO1091	PO1136
	PO0777	PO0822	PO0867	PO0912	PO0957	PO1002	PO1047	PO1092	PO1137
	PO0778		PO0868	PO0913	PO0958	PO1003	PO1048	PO1093	PO1138
	PO0779	PO0824	PO0869	PO0914		PO1004	PO1049	PO1094	PO1139
	PO0780	PO0825	PO0870	PO0915	PO0960	PO1005	PO1050	PO1095	PO1140
11:30-12:30	PO0781	PO0826	PO0871	PO0916	PO0961	PO1006	PO1051	PO1096	PO1141
	PO0782	PO0827	PO0872	PO0917	PO0962	PO1007	PO1052	PO1097	PO1142
	PO0783	PO0828	PO0873	PO0918	PO0963	PO1008	PO1053	PO1098	PO1143
	PO0784	PO0829	PO0874	PO0919	PO0964	PO1009	PO1054	PO1099	PO1144
	PO0785	PO0830	PO0875	PO0920	PO0965	PO1010	PO1055	PO1100	PO1145
12:30-13:30	PO0786	PO0831	PO0876	PO0921	PO0966	PO1011	PO1056	PO1101	PO1146
	PO0787	PO0832	PO0877	PO0922		PO1012	PO1057	PO1102	PO1147
	PO0788	PO0833	PO0878	PO0923	PO0968	PO1013	PO1058	PO1103	PO1148
		PO0834	PO0879	PO0924		PO1014	PO1059	PO1104	PO1149
	PO0790	PO0835	PO0880	PO0925	PO0970	PO1015	PO1060	PO1105	PO1150
13:30-14:30									
14:30-15:30	PO0791	PO0836	PO0881	PO0926	PO0971	PO1016	PO1061	PO1106	PO1151
	PO0792	PO0837	PO0882	PO0927	PO0972	PO1017	PO1062	PO1107	PO1152
	PO0793	PO0838	PO0883	PO0928	PO0973	PO1018	PO1063	PO1108	PO1153
	PO0794	PO0839	PO0884	PO0929	PO0974	PO1019	PO1064	PO1109	PO1154
		PO0840	PO0885	PO0930	PO0975	PO1020	PO1065	PO1110	PO1155
15:30-16:30	PO0796	PO0841	PO0886	PO0931	PO0976	PO1021	PO1066	PO1111	PO1156
	PO0797	PO0842	PO0887	PO0932	PO0977	PO1022	PO1067	PO1112	PO1157
	PO0798	PO0843	PO0888	PO0933	PO0978	PO1023	PO1068	PO1113	PO1158
	PO0799	PO0844		PO0934	PO0979	PO1024	PO1069	PO1114	PO1159
	PO0800	PO0845	PO0890	PO0935	PO0980	PO1025	PO1070	PO1115	PO1160
16:30 - 17:00									
17:00-18:00	PO0801	PO0846	PO0891	PO0936	PO0981	PO1026	PO1071	PO1116	PO1161
	PO0802	PO0847	PO0892	PO0937	PO0982	PO1027	PO1072	PO1117	PO1162
	PO0803	PO0848	PO0893	PO0938	PO0983	PO1028	PO1073	PO1118	PO1163
	PO0804	PO0849	PO0894	PO0939	PO0984	PO1029	PO1074	PO1119	PO1164
	PO0805	PO0850	PO0895	PO0940	PO0985		PO1075	PO1120	PO1165
18:00-19:00	PO0806	PO0851	PO0896	PO0941	PO0986	PO1031	PO1076	PO1121	PO1166
	PO0807	PO0852	PO0897	PO0942	PO0987	PO1032	PO1077	PO1122	PO1167
	PO0808	PO0853	PO0898	PO0943	PO0988	PO1033	PO1078	PO1123	
	PO0809	PO0854	PO0899	PO0944	PO0989	PO1034	PO1079	PO1124	PO1169
	PO0810	PO0855	PO0900	PO0945	PO0990	PO1035	PO1080	PO1125	PO1170

TUESDAY	Screen 10	Screen 11	Screen 12	Screen 13	Screen 14	Screen 15	Screen 16	Screen 17
08:00-09:00	PO1171	PO1216	PO1261	PO1306	PO1351	PO1396	PO1441	PO1486
	PO1172	PO1217	PO1262	PO1307	PO1352	PO1397	PO1442	PO1487
	PO1173	PO1218	PO1263		PO1353	PO1398	PO1443	PO1488
	PO1174	PO1219	PO1264	PO1309	PO1354	PO1399	PO1444	PO1489
	PO1175	PO1220	PO1265	PO1310	PO1355	PO1400	PO1445	PO1490
09:00-10:00	PO1176	PO1221	PO1266	PO1311	PO1356	PO1401		PO1491
	PO1177	PO1222	PO1267	PO1312	PO1357	PO1402	PO1447	
	PO1178	PO1223	PO1268	PO1313	PO1358	PO1403	PO1448	PO1493
	PO1179	PO1224	PO1269	PO1314	PO1359	PO1404	PO1449	PO1494
	PO1180	PO1225	PO1270	PO1315	PO1360	PO1405	PO1450	PO1495
10:00 - 10:30								
10:30-11:30	PO1181	PO1226	PO1271	PO1316	PO1361	PO1406	PO1451	
	PO1182		PO1272	PO1317	PO1362	PO1407	PO1452	PO1497
	PO1183	PO1228	PO1273	PO1318	PO1363	PO1408	PO1453	PO1498
	PO1184	PO1229	PO1274	PO1319	PO1364	PO1409	PO1454	PO1499
	PO1185	PO1230	PO1275	PO1320	PO1365	PO1410	PO1455	PO1500
11:30-12:30	PO1186	PO1231	PO1276	PO1321	PO1366	PO1411	PO1456	PO1501
	PO1187	PO1232	PO1277	PO1322	PO1367	PO1412	PO1457	PO1502
	PO1188	PO1233	PO1278	PO1323	PO1368	PO1413	PO1458	PO1503
	PO1189	PO1234		PO1324	PO1369	PO1414	PO1459	PO1504
	PO1190	PO1235	PO1280	PO1325	PO1370	PO1415	PO1460	PO1505
12:30-13:30	PO1191	PO1236	PO1281	PO1326	PO1371	PO1416	PO1461	PO1506
	PO1192	PO1237	PO1282	PO1327	PO1372	PO1417	PO1462	PO1507
	PO1193	PO1238	PO1283	PO1328	PO1373	PO1418	PO1463	PO1508
	PO1194	PO1239	PO1284	PO1329	PO1374	PO1419	PO1464	PO1509
	PO1195	PO1240	PO1285	PO1330	PO1375	PO1420	PO1465	PO1510
13:30-14:30								
14:30-15:30	PO1196	PO1241	PO1286	PO1331	PO1376	PO1421	PO1466	PO1511
	PO1197	PO1242	PO1287	PO1332	PO1377	PO1422	PO1467	PO1512
	PO1198	PO1243	PO1288	PO1333	PO1378	PO1423	PO1468	PO1513
	PO1199	PO1244	PO1289	PO1334		PO1424	PO1469	PO1514
	PO1200	PO1245	PO1290	PO1335	PO1380	PO1425	PO1470	PO1515
15:30-16:30	PO1201	PO1246	PO1291	PO1336	PO1381	PO1426	PO1471	PO1516
	PO1202	PO1247	PO1292	PO1337	PO1382	PO1427	PO1472	
	PO1203	PO1248	PO1293	PO1338	PO1383	PO1428	PO1473	
	PO1204	PO1249	PO1294	PO1339	PO1384	PO1429	PO1474	PO1519
	PO1205	PO1250	PO1295	PO1340	PO1385	PO1430	PO1475	PO1520
16:30 - 17:00								
17:00-18:00	PO1206	PO1251	PO1296	PO1341	PO1386	PO1431	PO1476	PO1521
	PO1207	PO1252	PO1297	PO1342	PO1387	PO1432	PO1477	PO1522
	PO1208	PO1253	PO1298	PO1343	PO1388	PO1433	PO1478	PO1523
	PO1209	PO1254	PO1299	PO1344	PO1389	PO1434	PO1479	PO1524
	PO1210	PO1255	PO1300	PO1345	PO1390	PO1435	PO1480	PO1525
18:00-19:00	PO1211	PO1256	PO1301	PO1346	PO1391	PO1436	PO1481	PO1526
	PO1212	PO1257	PO1302	PO1347	PO1392	PO1437	PO1482	PO1527
	PO1213	PO1258	PO1303	PO1348	PO1393	PO1438	PO1483	PO1528
	PO1214	PO1259	PO1304	PO1349	PO1394	PO1439	PO1484	PO1529
	PO1215	PO1260	PO1305	PO1350	PO1395	PO1440	PO1485	PO1530

WEDNESDAY	Screen 1	Screen 2	Screen 3	Screen 4	Screen 5	Screen 6	Screen 7	Screen 8	Screen 9
08:00-09:00	PO1531	PO1576	PO1621	PO1666		PO1756	PO1801	PO1846	PO1891
	PO1532	PO1577	PO1622	PO1667	PO1712	PO1757	PO1802	PO1847	PO1892
	PO1533	PO1578	PO1623	PO1668	PO1713	PO1758	PO1803	PO1848	PO1893
	PO1534	PO1579	PO1624		PO1714	PO1759	PO1804	PO1849	PO1894
09:00-10:00	PO1535	PO1580	PO1625		PO1715	PO1760	PO1805	PO1850	PO1895
	PO1536	PO1581	PO1626	PO1671	PO1716	PO1761	PO1806	PO1851	PO1896
	PO1537	PO1582	PO1627	PO1672	PO1717	PO1762	PO1807	PO1852	PO1897
	PO1538	PO1583	PO1628	PO1673	PO1718	PO1763	PO1808	PO1853	PO1898
10:00 - 10:30	PO1539	PO1584	PO1629	PO1674	PO1719	PO1764	PO1809	PO1854	PO1899
	PO1540	PO1585	PO1630	PO1675	PO1720	PO1765		PO1855	PO1900
10:30-11:30	PO1541	PO1586	PO1631	PO1676	PO1721	PO1766	PO1811	PO1856	PO1901
	PO1542	PO1587	PO1632	PO1677	PO1722	PO1767	PO1812	PO1857	PO1902
	PO1543	PO1588	PO1633	PO1678	PO1723	PO1768	PO1813	PO1858	PO1903
		PO1589	PO1634	PO1679	PO1724	PO1769	PO1814	PO1859	PO1904
11:30-12:30	PO1545	PO1590	PO1635	PO1680	PO1725	PO1770	PO1815	PO1860	PO1905
	PO1546	PO1591	PO1636	PO1681	PO1726			PO1861	PO1906
	PO1547	PO1592	PO1637	PO1682	PO1727	PO1772	PO1817	PO1862	PO1907
	PO1548	PO1593		PO1683	PO1728	PO1773	PO1818	PO1863	PO1908
12:30-13:30	PO1549	PO1594	PO1639		PO1729	PO1774	PO1819	PO1864	PO1909
	PO1550	PO1595	PO1640	PO1685	PO1730	PO1775	PO1820	PO1865	PO1910
	PO1551	PO1596	PO1641	PO1686	PO1731	PO1776	PO1821	PO1866	PO1911
	PO1552	PO1597	PO1642	PO1687	PO1732	PO1777	PO1822	PO1867	PO1912
13:30-14:30	PO1553		PO1643	PO1688	PO1733	PO1778	PO1823	PO1868	PO1913
		PO1599	PO1644	PO1689	PO1734	PO1779	PO1824	PO1869	
	PO1555	PO1600		PO1690	PO1735	PO1780	PO1825	PO1870	PO1915
14:30-15:30	PO1556	PO1601	PO1646	PO1691	PO1736	PO1781	PO1826	PO1871	PO1916
	PO1557	PO1602	PO1647	PO1692		PO1782	PO1827	PO1872	PO1917
	PO1558	PO1603	PO1648	PO1693	PO1738	PO1783	PO1828	PO1873	PO1918
	PO1559	PO1604	PO1649	PO1694	PO1739	PO1784	PO1829	PO1874	PO1919
15:30-16:30	PO1560	PO1605	PO1650	PO1695	PO1740	PO1785	PO1830	PO1875	PO1920
	PO1561	PO1606	PO1651	PO1696	PO1741	PO1786	PO1831	PO1876	PO1921
	PO1562	PO1607	PO1652	PO1697	PO1742	PO1787	PO1832	PO1877	PO1922
	PO1563	PO1608	PO1653	PO1698	PO1743	PO1788	PO1833	PO1878	PO1923
16:30 - 17:00	PO1564	PO1609	PO1654	PO1699	PO1744	PO1789	PO1834	PO1879	PO1924
	PO1565	PO1610	PO1655	PO1700	PO1745	PO1790	PO1835	PO1880	PO1925
17:00-18:00	PO1566	PO1611	PO1656	PO1701	PO1746	PO1791	PO1836	PO1881	PO1926
	PO1567	PO1612	PO1657	PO1702	PO1747	PO1792	PO1837	PO1882	PO1927
	PO1568	PO1613	PO1658	PO1703		PO1793	PO1838	PO1883	PO1928
	PO1569	PO1614	PO1659	PO1704	PO1749	PO1794	PO1839	PO1884	PO1929
18:00-19:00	PO1570	PO1615	PO1660	PO1705	PO1750	PO1795		PO1885	PO1930
		PO1616	PO1661	PO1706	PO1751	PO1796	PO1841	PO1886	PO1931
	PO1572	PO1617	PO1662	PO1707	PO1752	PO1797	PO1842	PO1887	PO1932
	PO1573	PO1618	PO1663	PO1708	PO1753	PO1798	PO1843	PO1888	PO1933
	PO1574	PO1619	PO1664	PO1709	PO1754	PO1799	PO1844	PO1889	PO1934
	PO1575	PO1620	PO1665	PO1710	PO1755	PO1800	PO1845	PO1890	PO1935

WEDNESDAY	Screen 10	Screen 11	Screen 12	Screen 13	Screen 14	Screen 15	Screen 16	Screen 17
08:00-09:00	PO1936	PO1981	PO2026	PO2071	PO2116	PO2161	PO2206	PO2251
	PO1937	PO1982	PO2027	PO2072	PO2117	PO2162	PO2207	PO2252
	PO1938	PO1983	PO2028	PO2073	PO2118	PO2163	PO2208	PO2253
	PO1939	PO1984	PO2029	PO2074	PO2119	PO2164	PO2209	
09:00-10:00	PO1940	PO1985	PO2030	PO2075	PO2120	PO2165	PO2210	PO2255
	PO1941	PO1986	PO2031		PO2121	PO2166	PO2211	PO2256
	PO1942	PO1987	PO2032	PO2077	PO2122	PO2167	PO2212	PO2257
	PO1943	PO1988	PO2033	PO2078	PO2123	PO2168	PO2213	PO2258
10:00 - 10:30	PO1944	PO1989	PO2034	PO2079	PO2124	PO2169	PO2214	PO2259
	PO1945	PO1990	PO2035	PO2080	PO2125		PO2215	PO2260
10:30-11:30	PO1946	PO1991	PO2036	PO2081	PO2126	PO2171	PO2216	PO2261
	PO1947	PO1992	PO2037	PO2082	PO2127	PO2172	PO2217	PO2262
	PO1948	PO1993	PO2038	PO2083	PO2128	PO2173	PO2218	PO2263
	PO1949	PO1994	PO2039	PO2084	PO2129	PO2174	PO2219	PO2264
11:30-12:30	PO1950	PO1995	PO2040	PO2085	PO2130	PO2175	PO2220	PO2265
	PO1951	PO1996	PO2041	PO2086	PO2131	PO2176	PO2221	PO2266
	PO1952	PO1997	PO2042	PO2087	PO2132	PO2177	PO2222	PO2267
	PO1953	PO1998	PO2043	PO2088	PO2133	PO2178	PO2223	PO2268
12:30-13:30	PO1954	PO1999	PO2044	PO2089	PO2134	PO2179	PO2224	PO2269
	PO1955	PO2000	PO2045	PO2090	PO2135	PO2180	PO2225	PO2270
	PO1956	PO2001	PO2046	PO2091	PO2136	PO2181	PO2226	PO2271
	PO1957	PO2002	PO2047	PO2092	PO2137	PO2182	PO2227	PO2272
13:30-14:30	PO1958	PO2003	PO2048	PO2093	PO2138	PO2183	PO2228	PO2273
	PO1959	PO2004	PO2049	PO2094	PO2139	PO2184	PO2229	PO2274
	PO1960	PO2005	PO2050	PO2095	PO2140	PO2185	PO2230	PO2275
14:30-15:30	PO1961	PO2006	PO2051	PO2096	PO2141	PO2186	PO2231	PO2276
	PO1962	PO2007	PO2052	PO2097	PO2142	PO2187	PO2232	PO2277
	PO1963	PO2008	PO2053	PO2098	PO2143	PO2188	PO2233	PO2278
	PO1964	PO2009	PO2054	PO2099	PO2144	PO2189	PO2234	PO2279
15:30-16:30	PO1965	PO2010	PO2055	PO2100	PO2145	PO2190	PO2235	PO2280
	PO1966	PO2011	PO2056	PO2101	PO2146	PO2191	PO2236	PO2281
	PO1967	PO2012	PO2057	PO2102	PO2147	PO2192	PO2237	PO2282
	PO1968	PO2013	PO2058	PO2103	PO2148	PO2193	PO2238	PO2283
16:30 - 17:00	PO1969	PO2014	PO2059	PO2104	PO2149	PO2194	PO2239	PO2284
	PO1970	PO2015	PO2060	PO2105	PO2150	PO2195	PO2240	PO2285
17:00-18:00	PO1971	PO2016	PO2061	PO2106	PO2151	PO2196	PO2241	PO2286
	PO1972	PO2017	PO2062	PO2107	PO2152	PO2197	PO2242	PO2287
	PO1973	PO2018	PO2063	PO2108	PO2153	PO2198	PO2243	PO2288
	PO1974	PO2019	PO2064	PO2109	PO2154	PO2199	PO2244	PO2289
18:00-19:00	PO1975	PO2020	PO2065	PO2110	PO2155	PO2200	PO2245	PO2290
	PO1976	PO2021	PO2066	PO2111	PO2156	PO2201	PO2246	PO2291
	PO1977	PO2022	PO2067	PO2112	PO2157	PO2202	PO2247	PO2292
	PO1978	PO2023	PO2068	PO2113	PO2158	PO2203	PO2248	PO2293
	PO1979	PO2024	PO2069	PO2114	PO2159	PO2204	PO2249	PO2294
	PO1980	PO2025	PO2070	PO2115	PO2160	PO2205	PO2250	PO2295

THURSDAY	Screen 1	Screen 2	Screen 3	Screen 4	Screen 5	Screen 6	Screen 7	Screen 8	Screen 9
08:00-09:00	PO2296	PO2341	PO2386	PO2431	PO2476	PO2521	PO2566	PO2611	PO2656
	PO2297	PO2342	PO2387	PO2432	PO2477	PO2522	PO2567	PO2612	PO2657
	PO2298	PO2343	PO2388	PO2433	PO2478	PO2523	PO2568	PO2613	PO2658
	PO2299	PO2344	PO2389	PO2434	PO2479	PO2524	PO2569	PO2614	PO2659
09:00-10:00	PO2300		PO2390	PO2435	PO2480	PO2525	PO2570	PO2615	PO2660
	PO2301	PO2346	PO2391	PO2436	PO2481	PO2526	PO2571	PO2616	PO2661
	PO2302	PO2347	PO2392	PO2437	PO2482	PO2527	PO2572	PO2617	PO2662
	PO2303	PO2348	PO2393	PO2438	PO2483		PO2573	PO2618	PO2663
10:00-10:30	PO2304	PO2349	PO2394	PO2439	PO2484	PO2529	PO2574	PO2619	PO2664
	PO2305	PO2350	PO2395	PO2440	PO2485	PO2530	PO2575	PO2620	PO2665
10:30-11:30	PO2306	PO2351	PO2396	PO2441	PO2486	PO2531		PO2621	PO2666
	PO2307	PO2352	PO2397	PO2442	PO2487	PO2532	PO2577	PO2622	PO2667
	PO2308	PO2353	PO2398	PO2443	PO2488	PO2533	PO2578	PO2623	PO2668
	PO2309	PO2354	PO2399	PO2444	PO2489	PO2534	PO2579	PO2624	PO2669
11:30-12:30	PO2310	PO2355	PO2400	PO2445	PO2490	PO2535	PO2580	PO2625	PO2670
	PO2311	PO2356	PO2401	PO2446	PO2491	PO2536	PO2581	PO2626	PO2671
	PO2312	PO2357	PO2402	PO2447	PO2492	PO2537	PO2582	PO2627	PO2672
	PO2313	PO2358	PO2403	PO2448	PO2493	PO2538	PO2583	PO2628	PO2673
12:30-13:30	PO2314	PO2359	PO2404	PO2449	PO2494	PO2539	PO2584	PO2629	PO2674
	PO2315	PO2360	PO2405	PO2450	PO2495	PO2540	PO2585	PO2630	PO2675
	PO2316	PO2361	PO2406	PO2451	PO2496	PO2541	PO2586	PO2631	PO2676
	PO2317	PO2362	PO2407	PO2452	PO2497	PO2542	PO2587	PO2632	PO2677
13:30-14:30	PO2318		PO2408	PO2453	PO2498	PO2543	PO2588	PO2633	PO2678
	PO2319	PO2364	PO2409	PO2454	PO2499	PO2544	PO2589	PO2634	PO2679
	PO2320	PO2365	PO2410	PO2455	PO2500	PO2545	PO2590	PO2635	PO2680
14:30-15:30	PO2321	PO2366	PO2411	PO2456	PO2501	PO2546	PO2591	PO2636	PO2681
	PO2322	PO2367	PO2412	PO2457	PO2502	PO2547	PO2592	PO2637	PO2682
	PO2323	PO2368	PO2413	PO2458	PO2503		PO2593	PO2638	PO2683
	PO2324	PO2369	PO2414	PO2459	PO2504	PO2549	PO2594	PO2639	PO2684
15:30-16:30	PO2325	PO2370	PO2415	PO2460	PO2505	PO2550	PO2595	PO2640	PO2685
	PO2326	PO2371	PO2416	PO2461	PO2506	PO2551	PO2596	PO2641	PO2686
	PO2327	PO2372	PO2417	PO2462	PO2507	PO2552	PO2597	PO2642	PO2687
	PO2328	PO2373	PO2418	PO2463	PO2508	PO2553	PO2598	PO2643	PO2688
16:30-17:00	PO2329	PO2374	PO2419	PO2464	PO2509	PO2554	PO2599	PO2644	PO2689
	PO2330	PO2375	PO2420	PO2465	PO2510	PO2555	PO2600	PO2645	PO2690
17:00-18:00	PO2331	PO2376	PO2421	PO2466	PO2511	PO2556	PO2601	PO2646	PO2691
	PO2332	PO2377	PO2422	PO2467	PO2512	PO2557	PO2602	PO2647	PO2692
	PO2333	PO2378	PO2423	PO2468	PO2513	PO2558	PO2603	PO2648	PO2693
	PO2334	PO2379	PO2424	PO2469	PO2514	PO2559	PO2604	PO2649	PO2694
18:00-19:00	PO2335	PO2380	PO2425	PO2470	PO2515	PO2560	PO2605	PO2650	PO2695
	PO2336	PO2381	PO2426	PO2471	PO2516	PO2561	PO2606	PO2651	PO2696
	PO2337	PO2382	PO2427	PO2472	PO2517	PO2562	PO2607	PO2652	PO2697
	PO2338	PO2383	PO2428	PO2473	PO2518	PO2563	PO2608	PO2653	PO2698
	PO2339	PO2384	PO2429	PO2474	PO2519	PO2564	PO2609	PO2654	PO2699
	PO2340	PO2385	PO2430	PO2475	PO2520	PO2565	PO2610	PO2655	

THURSDAY	Screen 10	Screen 11	Screen 12	Screen 13	Screen 14	Screen 15	Screen 16	Screen 17
08:00-09:00		PO2746	PO2791	PO2836	PO2881	PO2926	PO2971	PO3016
	PO2702	PO2747	PO2792	PO2837	PO2882	PO2927	PO2972	PO3017
	PO2703	PO2748	PO2793	PO2838	PO2883	PO2928	PO2973	PO3018
	PO2704	PO2749	PO2794	PO2839	PO2884	PO2929	PO2974	PO3019
09:00-10:00	PO2705	PO2750	PO2795		PO2885	PO2930	PO2975	PO3020
	PO2706	PO2751	PO2796	PO2841	PO2886	PO2931	PO2976	PO3021
	PO2707	PO2752	PO2797	PO2842	PO2887	PO2932	PO2977	PO3022
	PO2708		PO2798	PO2843	PO2888	PO2933	PO2978	PO3023
10:00-10:30	PO2709	PO2754	PO2799	PO2844	PO2889	PO2934	PO2979	PO3024
	PO2710	PO2755	PO2800	PO2845	PO2890	PO2935	PO2980	PO3025
10:30-11:30	PO2711	PO2756	PO2801	PO2846	PO2891	PO2936	PO2981	PO3026
	PO2712	PO2757	PO2802	PO2847	PO2892	PO2937	PO2982	PO3027
	PO2713	PO2758	PO2803	PO2848	PO2893	PO2938	PO2983	PO3028
	PO2714	PO2759	PO2804	PO2849	PO2894	PO2939	PO2984	PO3029
11:30-12:30	PO2715	PO2760	PO2805	PO2850	PO2895	PO2940	PO2985	PO3030
		PO2761	PO2806	PO2851	PO2896	PO2941	PO2986	PO3031
	PO2717	PO2762		PO2852	PO2897	PO2942	PO2987	PO3032
	PO2718	PO2763	PO2808	PO2853	PO2898	PO2943	PO2988	PO3033
12:30-13:30	PO2719	PO2764	PO2809	PO2854	PO2899	PO2944	PO2989	PO3034
	PO2720	PO2765	PO2810		PO2900	PO2945	PO2990	PO3035
	PO2721	PO2766	PO2811	PO2856	PO2901	PO2946	PO2991	PO3036
	PO2722	PO2767	PO2812	PO2857	PO2902	PO2947	PO2992	PO3037
13:30-14:30	PO2723	PO2768	PO2813	PO2858	PO2903	PO2948	PO2993	PO3038
	PO2724	PO2769	PO2814	PO2859	PO2904	PO2949	PO2994	PO3039
	PO2725	PO2770	PO2815	PO2860	PO2905	PO2950	PO2995	PO3040
14:30-15:30	PO2726	PO2771	PO2816	PO2861	PO2906	PO2951	PO2996	PO3041
	PO2727	PO2772	PO2817	PO2862	PO2907	PO2952	PO2997	PO3042
	PO2728	PO2773	PO2818	PO2863	PO2908	PO2953	PO2998	PO3043
	PO2729	PO2774	PO2819	PO2864	PO2909	PO2954	PO2999	PO3044
15:30-16:30	PO2730	PO2775	PO2820	PO2865	PO2910	PO2955	PO3000	PO3045
	PO2731	PO2776	PO2821	PO2866	PO2911	PO2956	PO3001	PO3046
	PO2732	PO2777	PO2822	PO2867	PO2912	PO2957	PO3002	PO3047
	PO2733	PO2778	PO2823	PO2868	PO2913	PO2958	PO3003	PO3048
16:30-17:00	PO2734	PO2779	PO2824	PO2869	PO2914	PO2959	PO3004	PO3049
	PO2735	PO2780	PO2825	PO2870	PO2915	PO2960	PO3005	PO3050
17:00-18:00	PO2736	PO2781	PO2826	PO2871	PO2916	PO2961	PO3006	PO3051
	PO2737	PO2782	PO2827	PO2872	PO2917	PO2962	PO3007	PO3052
	PO2738	PO2783	PO2828	PO2873	PO2918	PO2963	PO3008	PO3053
	PO2739	PO2784	PO2829	PO2874	PO2919		PO3009	PO3054
18:00-19:00	PO2740	PO2785	PO2830	PO2875	PO2920	PO2965	PO3010	PO3055
	PO2741	PO2786	PO2831	PO2876	PO2921	PO2966	PO3011	PO3056
	PO2742	PO2787	PO2832	PO2877	PO2922	PO2967	PO3012	PO3057
	PO2743	PO2788	PO2833	PO2878	PO2923	PO2968		PO3058
	PO2744		PO2834	PO2879	PO2924	PO2969	PO3014	PO3059
	PO2745	PO2790	PO2835	PO2880	PO2925	PO2970	PO3015	PO3060

FRIDAY	Screen 1	Screen 2	Screen 3	Screen 4	Screen 5	Screen 6	Screen 7	Screen 8	Screen 9
08:00-09:00	PO3061	PO3081	PO3101		PO3141	PO3161	PO3181	PO3201	PO3221
	PO3062	PO3082	PO3102	PO3122	PO3142	PO3162	PO3182	PO3202	PO3222
	PO3063	PO3083	PO3103	PO3123	PO3143	PO3163	PO3183	PO3203	PO3223
	PO3064	PO3084	PO3104	PO3124	PO3144	PO3164	PO3184	PO3204	PO3224
09:00-10:00	PO3065	PO3085	PO3105	PO3125	PO3145	PO3165	PO3185	PO3205	PO3225
	PO3066	PO3086	PO3106		PO3146	PO3166	PO3186	PO3206	PO3226
	PO3067	PO3087	PO3107	PO3127	PO3147	PO3167	PO3187	PO3207	PO3227
	PO3068	PO3088	PO3108	PO3128	PO3148	PO3168	PO3188	PO3208	PO3228
10:00 - 10:30	PO3069	PO3089	PO3109	PO3129	PO3149	PO3169	PO3189	PO3209	PO3229
	PO3070	PO3090	PO3110	PO3130	PO3150	PO3170	PO3190	PO3210	PO3230
	PO3071	PO3091	PO3111	PO3131	PO3151	PO3171	PO3191	PO3211	PO3231
	PO3072	PO3092	PO3112	PO3132	PO3152	PO3172	PO3192	PO3212	PO3232
10:30-11:30	PO3073	PO3093	PO3113	PO3133	PO3153	PO3173	PO3193	PO3213	PO3233
	PO3074	PO3094	PO3114	PO3134	PO3154	PO3174	PO3194	PO3214	PO3234
	PO3075	PO3095	PO3115	PO3135	PO3155	PO3175	PO3195	PO3215	PO3235
	PO3076	PO3096	PO3116	PO3136	PO3156	PO3176	PO3196	PO3216	PO3236
11:30-12:30	PO3077	PO3097	PO3117	PO3137	PO3157	PO3177	PO3197	PO3217	PO3237
	PO3078	PO3098	PO3118	PO3138	PO3158	PO3178		PO3218	PO3238
	PO3079	PO3099		PO3139	PO3159	PO3179	PO3199	PO3219	PO3239
	PO3080		PO3120	PO3140	PO3160	PO3180	PO3200	PO3220	PO3240

FRIDAY	Screen 10	Screen 11	Screen 12	Screen 13	Screen 14	Screen 15	Screen 16	Screen 17	Screen 18
08:00-09:00	PO3241	PO3261	PO3281	PO3301	PO3321	PO3341	PO3361	PO3381	PO3401
	PO3242	PO3262	PO3282	PO3302	PO3322	PO3342	PO3362	PO3382	PO3402
	PO3243	PO3263	PO3283	PO3303	PO3323	PO3343	PO3363	PO3383	PO3403
	PO3244	PO3264	PO3284	PO3304	PO3324	PO3344	PO3364	PO3384	PO3404
09:00-10:00	PO3245	PO3265	PO3285	PO3305	PO3325	PO3345	PO3365	PO3385	PO3405
	PO3246	PO3266	PO3286	PO3306	PO3326	PO3346	PO3366	PO3386	PO3406
	PO3247	PO3267	PO3287	PO3307	PO3327	PO3347	PO3367	PO3387	PO3407
	PO3248		PO3288	PO3308	PO3328	PO3348	PO3368	PO3388	PO3408
10:00 - 10:30	PO3249	PO3269	PO3289	PO3309	PO3329	PO3349	PO3369	PO3389	PO3409
	PO3250	PO3270	PO3290	PO3310	PO3330	PO3350	PO3370	PO3390	PO3410
	PO3251	PO3271	PO3291	PO3311	PO3331	PO3351	PO3371	PO3391	PO3411
	PO3252	PO3272	PO3292	PO3312	PO3332	PO3352	PO3372	PO3392	PO3412
10:30-11:30	PO3253	PO3273	PO3293	PO3313	PO3333	PO3353	PO3373	PO3393	PO3413
	PO3254	PO3274	PO3294	PO3314	PO3334	PO3354	PO3374	PO3394	PO3414
	PO3255	PO3275	PO3295	PO3315	PO3335	PO3355	PO3375	PO3395	PO3415
	PO3256	PO3276	PO3296	PO3316		PO3356	PO3376	PO3396	PO3416
11:30-12:30	PO3257	PO3277	PO3297	PO3317	PO3337	PO3357	PO3377	PO3397	
	PO3258			PO3318	PO3338		PO3378	PO3398	
	PO3259	PO3279	PO3299	PO3319	PO3339	PO3359	PO3379	PO3399	
	PO3260	PO3280	PO3300	PO3320	PO3340	PO3360	PO3380	PO3400	

Sunday, September 15th

Seminar 3

09.00 – 11.00

General Assembly UIPCG (UIB)

Seminar 4, 5

14.00 – 16.00

Global Food Monitoring

Monday, September 16th

Seminars 6, 7

11.30 – 13.30

CDC-Nut SENPE

13.30 – 14.30

Nestlé Foundation

Tuesday, September 17th

Seminar 3, 4, 5

08.00 – 11.00

Forum FELANPE

11.30 – 13.30

Association for Nutrition Meeting

19.00 – 21.30

GAIN

Seminar 6, 7

13.30 – 14.30

Nestlé Foundation

15.00 – 17.00

FENS Assembly

16.30 – 19.00

Arch Project

18.30 – 21.00

FANS Executive Meeting

Picasso Room

19.00 – 21.00

SEÑ Assembly

Congress Venue (1st Floor terrace)

19.00 – 20.30

McCollum Reception

Wednesday, September 18th

Seminar 3

07.00 – 08.00

ANM Board Meeting

Seminar 4

08.00 – 13.30

Ferrero

Seminar 6, 7

13.30 – 14.30

Nestlé Foundation

Thursday, September 19th

Seminar 6, 7

13.30 – 14.30

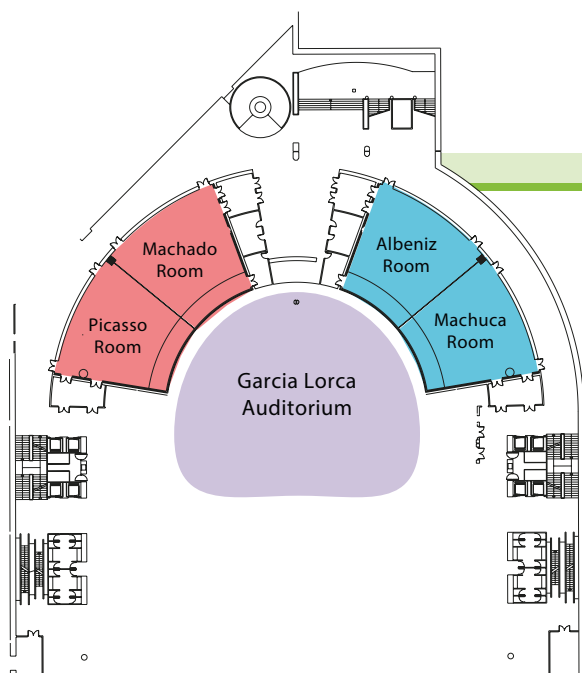
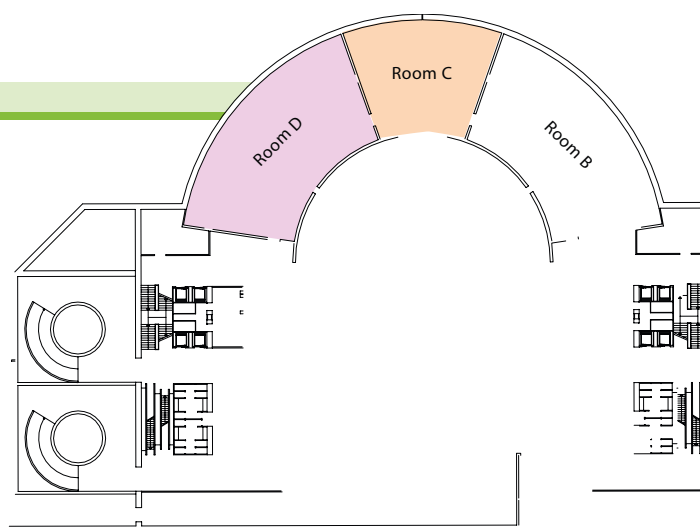
Nestlé Foundation

18.30 – 21.00

FANS General Assembly

Basement -3

Room B
Room C
Room D

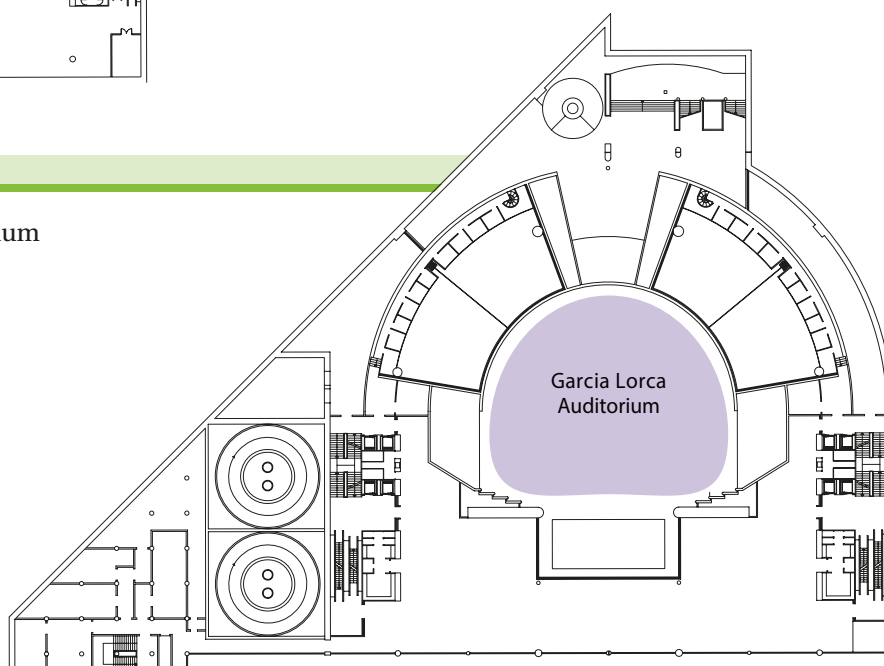


Basement -2

Machado and Picasso rooms
Machuca and Albeniz rooms

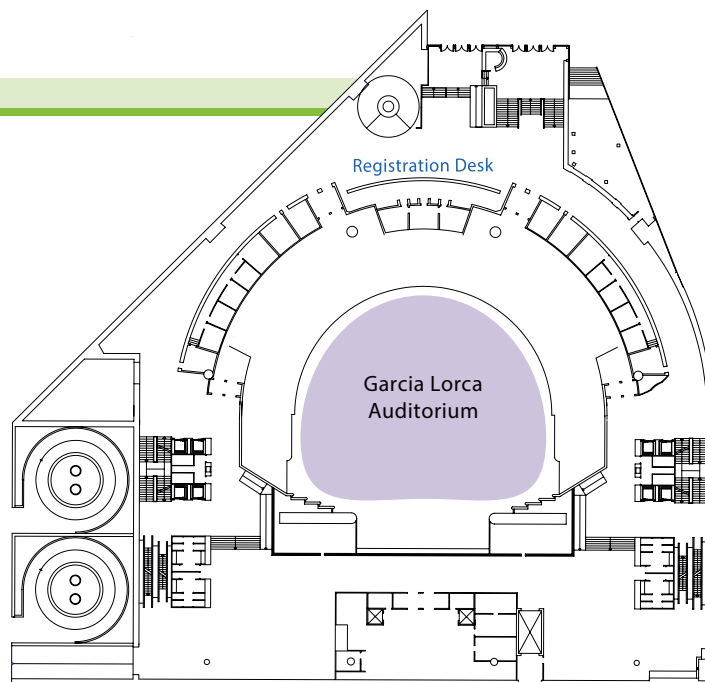
Basement -1

Garcia Lorca auditorium
(Lower level)



Ground Floor

Cloakroom
Registration desk
Garcia Lorca auditorium
(Higher level)



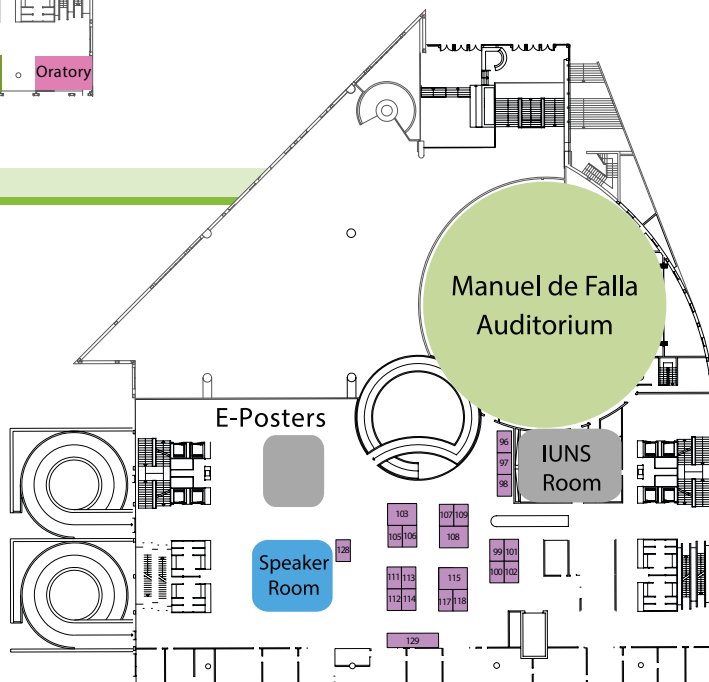
1st Floor



Andalusia rooms I, II, III
Breast feeding room
Cafeteria
Exhibition
Exhibition service desk
Internet corner
Manuel de Falla auditorium
Oratory
Press room
Seminars 3, 4, 5
Seminars 6, 7

2nd Floor

Exhibition
E-Posters
IUNS room
Speaker room



Abbott Institute of Nutrition	Booth 15
Aijnomoto	Booth 43
American Pistachio Growers	Booth 40
American Society for Nutrition	Booth 101
Beneo.....	Booth 22
Bimbo	Booth 49
Biológica.....	Booth 114
Biópolis.....	Booth 23
California Walnut Commission.....	Booth 55
Cambridge University Press	Booth 111
Campofrío	Booth 18
Central Lechera Asturiana.....	Booth 77
Cerveza y Salud.....	Booth 34
Champiñón de Europa.....	Booth 52
Chinese Nutrition Society.....	Booth 128
Cosmed	Booth 118
Danone Institute	Booth 108
Deoleo	Booth 14
D.O.P. Vinos de Calidad de Granada.....	Booth 45
DSM	Booth 26
Editorial Médica Panamericana	Booth 107
EHI.....	Booth 103
EUFIC	Booth 115
FENIL.....	Booth 42
FENS/FANS.....	Booth 96
Federación Alimentos Calidad Granada	Booth 37
FINUT/SEÑ.....	Booth 97
Friesland Campina.....	Booth 35
General Mills.....	Booth 25
HarvestPlus/IFPRI.....	Booth 39
Hero	Booth 33
Hydration for Health Initiative	Booth 13
ISA.....	Booth 113
ICN 2017/IUNS.....	Booth 98
ILSI Europe	Booth 47
IMTF.....	Booth 106
InBody	Booth 41
Japan Society of Nutrition and Food Science (JSNFS).....	Booth 117
Karger	Booth 112
MASO/EASO.....	Booth 105
Mondelēz International	Booth 24
Nestlé.....	Booth 17
Nutrición sin fronteras / SENC.....	Booth 99
Nutrition Society.....	Booth 109
Puleva Food	Booth 1
Roquette	Booth 46
SECA.....	Booth 36
Solutex.....	Booth 54
Spring Project.....	Booth 100
Tanita	Booth 32
Tate & Lyle	Booth 51
The Coca Cola Company.....	Booth 53
Turismo de Granada	Booth 102
UIB.....	Booth 16
Unilever.....	Booth 5
Universidad de Granada	Booth 44
Vegenat.....	Booth 21
Wisepress	Booth 129

Abbott Institute of Nutrition

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Tel: +81 3 52508183
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Contact Person: ana_sangabriel@ajinomoto.com

American Pistachio Growers

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Tel: 001 559 475 0435
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Contact Person: Kathleen Kissee

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Email: sec@nutrition.org
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Bimbo

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Email: jrennie@cambridge.org
Contact Person: Jo Rennie

California Walnut Commission / Nueces de California

Booth Number: 55
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Tel: 0034 93 419 06 30
Email: cmassana@inforpress.es
Contact Person: Cristina Massana

Campofrío

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"The Nutrition Society is one of the shortlisted organisations bidding to host ICN 2021"

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Exhibitor Logos

www.icn2013.com



Opening ceremony

Sunday, September 15th
Congress Venue, Garcia Lorca Auditorium
From 19:00 to 21:00

Welcome Reception

Sunday, September 15th
Congress Venue (terrace)
At 21:00
Free access by presenting your congress badge

Speaker Dinner

Monday, September 16th
Carmen de los Martires
At 21:00
A transfer service will be offered from the following hotels: Meliá Granada, Santos Saray, AC Santa Paula and Gran Luna de Granada and from the congress venue.

Sacred Music Organ Recital by D. Juan Maria Pedrero

Tuesday, September 17th and Wednesday, September 18th
S. Justo y Pastor Church
Plaza de la Universidad
From 20:30 to 21:30
Free access by presenting your congress badge (Limited to 360 seats)

Gala Dinner

Thursday, September 19th
Plaza de Toros Monumental de Granada
Avda. Del Dr. Oloriz
At 20:30
No transfers will be provided
70€ - Buy your ticket in the Social Event and Accommodation Counter until Tuesday 17th



Closing Ceremony

Friday, September 20th
Congress Venue, García Lorca Auditorium
At 12:00

Other Activities:

Exhibition

Nutrition Source of Life

Venue: Parque de las Ciencias
Avd. de la Ciencia, s/n 18006 Granada
www.parqueciencias.com

The Fundacion Iberoamericana de Nutricion (FINUT – The Ibero-American Nutrition Foundation) is a non-profit-making organization set up in February 2011, whose main objective is to contribute to the development of training and knowledge in the nutritional sciences in Ibero-America. Its trustees are the International Union of Nutritional Sciences (IUNS) and the Sociedad Española de Nutricion (SENut- The Spanish Nutrition Society). These two institutions are organizing, with the support of FINUT, the 20th International Congress of Nutrition. As a complement to the Congress and as an integral part of the same project, FINUT is promoting and organizing this exhibition in collaboration with Parque de las Ciencias, entitled “Nutrition, Source of Life”, about “Healthy food, nutrition and lifestyles within a sustainable environment”. This project is aimed above all at the general public, who, by means of a simple, attractive and enjoyable exhibition presentation, can discover the fundamental concepts in relation to food that anyone can put into practice to improve their health and enjoy a better quality of life.

The exhibition analyses and explains three dual concepts, “food-nutrition”, “restphysical activity” and “hygiene-environment”, that form the three sides of a tetrahedral pyramid, at the base of which is health.

Free visit for IUNS scientific delegates by presenting the congress badge

MAITRE programme

Friday, September 20th - Seminars 3, 4, 5

Speakers:

Andrew King from the European Journalism Centre (EJC)
Katja Legisa of Minerva Communication

3 sessions:

9:30-10:30

10:30-11:30

13:00-14:00

Download the Granada Travel Guide which contains information on nearly 4.000 attractions, including monuments, museums, hotels, restaurants, leisure centers, etc... Plan your stay in Granada!





Visit Alpujarras

Departure Date and Time: Wednesday 18th at 09.30h

Duration of the tour: Approx 6 hrs.

Price: 45€

Characteristics:

La Alpujarra is one of the richest botanical enclaves in Europe.

Our first stop is Lanjaron, where its medicinal waters flow through a historic spa, founded in 1843. We will then go to Orgiva, capital of the Alpujarra.

After this stop we will continue through the magical towns of Caratuñas, Pampaneira, Pitres, Portugos with its fountain of water (rich in iron) and Trevelez, the highest village in Spain and widely known for its exquisite Iberian cured meats.

Finally we will continue onto Bubion to Capileira, dominating the wonderful Poqueria gorge, a quite place to taste the traditional Alpujarra dish.



Granada Coast - Nerja

Departure Date and Time: Thursday 19th at 09.30h

Duration of the tour: Approx 8 hrs.

Price: 59€

Characteristics:

The proximity of the African coast and the protection of Sierra Nevada, grants the coast of Granada with a special microclimate of 320 days of sunshine every year, an average temperature of 20 degrees and the ideal conditions for relaxation, sports, and excursions.

Following towards Malaga we find Salobreña, this white village tops the hill with its moorish castle.

We will also visit Almuñecar, the most touristic village on the coast with important monuments such as the Castle of San Miguel and the old town. We will then proceed to Nerja where we will visit the Caves with archaeological remains.



One day excursion to Cordoba

Departure Date and Time: Friday 20th at 08.00h

Duration of the tour: Approx 10 hrs.

Price: 135€

Characteristics:

Discover Cordoba, the city that was once the light of the world as the capital city of the Caliphate kingdom. Cordoba has a huge cultural and historical legacy.

We will visit the beautiful Mosque-Cathedral of Cordoba, declared UNESCO World Heritage Site and considered the most important monument of the entire Western Islamic art. Its bright golden mosaics and an endless row of arches of red and white produce a visual delight.

We will also see the Alcazar of the Reyes Cristianos and the Jewish Quarter with its narrow streets, white houses full of flowers and the only synagogue in Andalucia.

You will then be taken on a panoramic tour on the way to the city center where you will have some free time to walk, enjoy a traditional meal or do some shopping.



IUNS 20th International Congress of Nutrition

GRANADA (SPAIN), SEPTEMBER 15-20, 2013

Scan the QR code to download the congress APP



www.icn2013-app.com

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