Distinguished Participants,

it is a great pleasure to welcome you to the 8th International Conference on Diet and Activity Methods (ICDAM8). The theme of this conference is, “Methodological challenges for measuring the achievements of international policies”. The Food and Agriculture Organization of the United Nations (FAO) is pleased to host this important event, which addresses topics that are highly relevant to the Organization’s mandate: to collect, analyze, interpret, and disseminate information relating to nutrition and to promote scientific, technological, social, and economic research relating to nutrition and food.

With the increased global attention to the importance of nutrition and physical activity for health throughout life, there is an urgent need to provide more and better evidence to inform policy decisions. Diet and physical activity measurements and the challenges related to effective policies and achievements of goals, are relevant to developed and developing countries alike.

The International Committee and the FAO Secretariat worked long and hard to organize the programme and we are pleased that we are able to present a Conference with 572 abstracts and delegates from more than 50 countries. The Conference itself has 24 separate sessions, covering dietary assessment, activity assessments, and diet and activity in combination. We are confident that ICDAM8 will provide a rich source of ideas, innovations and information that will contribute to the quality of evidence and ultimately to improvements in health worldwide.

FAO sits in Rome’s historic centre, between the Terme di Caracalla and the Circus Maximus and Palatine Hill. FAO itself has its own important history, as the venue for landmark food and nutrition events, including the International Conference on Nutrition and the World Food Summits. Presidents and Prime Ministers of all nations have stood in the halls of FAO pledging their commitments to the goal of food and nutrition security for all. And here we too, scientists from around the world, will be making our own contributions to this universal goal.

Barbara Burlingame
Chair, ICDAM8
International Committee

Committee chair
Barbara Burlingame
Food and Agriculture Organization of the United Nations - Italy

Committee members
Janice Albert
Food and Agriculture Organization of the United Nations - Italy
Gianvincenzo Barba
National Research Council - Italy
Catherine Champagne
Pennington Biomedical Research Centre - United States
Ruth Charrondiere
Food and Agriculture Organization of the United Nations - Italy
Marie Claude Dop
Institut de Recherche pour le Développement - France
Jessica Fanzo
Bioversity International - Italy
Andrew Hills
Mater Mother’s Hospital, Mater Medical Research Institute and Griffith Health Institute, Griffith University - Australia
Lauren Lissner
Göteborg University - Sweden
Joyce Kanyangwa Luma
United Nations World Food Programme - Italy
Barrie Margetts
University of Southampton - United Kingdom
Yves Martin-Prevel
Institut de Recherche pour le Développement - France
P.K. Newby
Boston University - United States
James Sallis
State University of San Diego - United States
Nelia Steyn
Human Sciences Research Council - South Africa
Amy Subar
National Cancer Institute - United States
Aida Turrini
National Institute for Food and Nutrition Research - Italy
Liisa Valsta
European Food Safety Authority - Italy
Chairs and Speakers

Marc A. Adams - USA
Davide Arcella - Italy
Mary Arimond - USA
Regan Bailey - USA
Gianni Barba - Italy
Adrian Bauman - Australia
Andersen Lars Bo - Denmark
Heather Bowles - USA
Barbara Burlingame - Italy
Nuala Byrne - Australia
Carlo Cafiero - Italy
Catherine Champagne - USA
Ruth Charrondiere - Italy
Jennifer Coates - USA
Marie Claude Dop - France
John Fiedler - USA
Laurence Freedman - Israel
Genevieve Fridlund Dunton - USA
Billie Giles-Corti - Australia
Andrew Hills - Australia
Stephen Intille - USA
Tim Key - United Kingdom
Victor Kipnis - USA
Christel Larsson - Sweden
Angela Liese - USA
Lauren Lissner - Sweden
Keith Lividini – USA

Thingnganing Longvah - India
Joyce Luma - Italy
Dirce Maria Marchioni - Brasil
Barrie Margetts - United Kingdom
Charles E. Matthews - USA
Carlos A. Monteiro - Brasil
P. K. Newby - USA
Sarah Nusser - USA
Marga C Ocké - the Netherlands
Neville Owen - Australia
Yikyung Park - USA
Nancy Potischman - USA
Jill Reedy - USA
James Sallis - USA
Jo Salmon - Australia
Olga Lucia Sarmiento - Colombia
Donna Spiegelman - USA
John Staudenmayer - USA
Nelia Steyn - South Africa
Amy Subar - USA
Boyd Swinburn - New Zealand
Modibo Traorè - Italy
Richard Troiano - USA
Aida Turrini - Italy
Ann Tutwiler - Italy
Liisa Valsta - Italy
08.30 - 09.00: Opening of Conference
09.00 - 09.30: Opening address
09.30 - 10.00: Keynote address: Measuring upstream: indicators of action and impacts on food environments
10.00 - 10.30: Keynote address: Research and action to improve diets
10.30 - 11.00: Registration and coffee
11.00 - 12.00: Poster session
12.00 - 12.30: Lunch break at cafeteria
12.30 - 13.00: Poster session
13.00 - 13.30: Poster session
13.30 - 14.00: Poster session
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15.30 - 16.00: Poster session
16.00 - 16.30: Poster session
16.30 - 17.00: Poster session
17.00 - 17.30: Oral presentations
17.30 - 18.00: Oral presentations
18.00 - 18.30: Oral presentations
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19.30 - 20.00: Oral presentations
20.00 - 20.30: Oral presentations

Monday, May 14
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<td><strong>A-6</strong> New technologies for dietary assessment</td>
<td><strong>B-6</strong> Measuring dietary diversity</td>
<td><strong>C-6</strong> Characteristics and impacts of measurement error in physical activity data</td>
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<td><strong>C-8</strong> Biomarkers in dietary assessment</td>
<td><strong>A-8</strong> Challenges in assessing diets of children and adolescents</td>
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PROGRAMME
08.30-10.30  Registration and coffee

10.30-12.00  GREEN Room

Opening of Conference
Chair: Barbara Burlingame
Principal Officer of Nutrition and Consumer Protection Division
Food and Agriculture Organization of the United Nations

Opening address
Ann Tutwiler, Deputy Director-General, Office of the Director General

P-1 Keynote address: Measuring upstream: indicators of action and impacts on food environments
Boyd Swinburn, Professor of Population Nutrition and Global Health
University of Auckland - New Zealand

P-2 Keynote: Research and action to improve diets
Barrie Margetts, Professor of Public Health Nutrition
Faculty of Medicine, University of Southampton - United Kingdom

12.00-14.30  ATRIUM - Poster session

Lunch Break at FAO cafeteria

14.30-16.00  GREEN Room

P-3 Keynote lecture: Social policies to encourage physical activity
Billie Giles-Corti, Director of the McCaughey VicHealth Centre for Mental Health and Community Wellbeing, Melbourne School of Population Health, The University of Melbourne

P-4 Keynote lecture: Measurement error in nutritional epidemiology
In memory of Arthur Schatzkin
Laurence Freedman, Director of Biostatistics Unit, Gertner Institute for Epidemiology and Health Policy Research, Tel Hashomer - Israel

P-5 Keynote lecture: Biomarkers and biomonitoring
In memory of Sheila Bingham
Tim Key, Deputy Director, Cancer Epidemiology Unit, University of Oxford

16.00-16.30  Coffee break

16.30-18.00  IRAN Room

A-1 Assessment of food environments
Chair: Jill Reedy
Invited Speakers: Angela Liese
Oral presentations:

Minaker et al. - Assessing the construct validity of food environment measures: A multi-trait multi-method matrix approach

Kirkpatrick et al. - Assessment of dietary outcomes in food environment research: A barrier to informing policy and programs to support healthy eating?

Miller et al. - Applying a diet quality index to assess the healthfulness of food balance sheets

Snowdon et al. - Assessing the food policy environment: Participatory approaches

Thornton et al. - Food purchasing: How important is the local neighbourhood?

**GREEN Room**

B-1 Nutrition and food security analyses using household surveys
Chair/co-chair: John L. Fiedler, Carlo Cafiero
Invited speakers: Keith Lividini, Jennifer Coates, Dirce Marchioni

Oral presentations:

Pereira et al. - The challenging inclusion of the first Brazilian individual dietary survey in the 2008-2009 Household Consumer Expenditures Survey

Moursi et al. - How do household consumption and expenditure surveys compare to 24-hour recalls in terms of nutrient intakes? Evidence from Uganda and Mozambique

Loopstra-Masters & Tarasuk - Assessing change in household food insecurity

**MALAYSIA Room**

C-1 Evaluating Physical Activity Environments
Chair: James Sallis
Invited speaker: Marc Adams

Oral presentations:

Bird et al. - Assessment of neighbourhood park characteristics for physical activity among youth

Frank et al. - Objective assessment of obesogenic environments in youth: GIS methods to evaluate physical activity and food environments for the neighborhood impact on kids (NIK) study

Quigg et al. - Natural experiments - an effective method for assessing built environment policy impact

18.00-20.00 Reception at cafeteria and terrace
A-2 Dietary surveys and indicators for formulating policies
Chair/co-chair: Aida Turrini, Barrie Margetts
Invited speaker: Barrie Margetts

Oral presentations:

Judd et al. - Dietary patterns associated with demographic and socioeconomic groups in the regards study
Pot et al. - Development of UK eating choices index
Morris et al. - Is a healthy diet the most expensive type of diet? Using dietary data from the UK women’s cohort study
Burley et al. - Comparability of dietary patterns derived from food frequency questionnaire and food diary approaches in the UK women’s cohort study (UKWCS)

GREEN Room

B-2 International dietary data harmonisation for monitoring and exposure assessment - synergies and challenges
Chair/co-chair: Liisa Valsta, Marga Ocke
Invited speakers: Davide Arcella, Marga Ocke

Oral presentations:

Huybrechts et al. - Train-the-trainers in conducting standardized 24-h dietary recall interviews in international study settings: Report from a real study experience
Illner et al. - Feasibility of use and performance of a European food propensity questionnaire in the iDAMES project
Bell et al. - Delivering food information and other tools to support food and health professionals
Johnson - Challenges in monitoring biomarkers of folate, vitamin D and sodium over time: the NHANES experience

MALAYSIA Room

C-2 Physical activity assessment in international surveillance systems
Chair: Andrew Hills
Invited speaker: Adrian Bauman

Oral presentations:

Mcclain et al. - Leveraging distributed sensor networks to develop a scalable system for behavioral health surveillance and health outcomes research
Garriguet et al. - Daily patterns of physical activity participation in Canadians

Troiano et al. - Objective measurement of physical activity, sleep, and strength in the US National Health and Nutrition Examination Survey 2011-2014

Roberts et al. - Evaluation of weight management, diet and physical activity interventions: A standardised approach

10.30-11.00 Coffee break

11.00-12.30 IRAN Room

A-3 Assessment of dietary supplement intakes
Chair: Regan Bailey
Invited speaker: Regan Bailey

Oral presentations:

Crispim et al. - Pitfalls when accounting for supplement use in validation studies: experiences from the European Food Consumption Validation (EFCOVAL) study

Parnell et al. - Assessment of dietary supplement use in New Zealand: Methodology and regulatory challenges

Verkaik-Kloosterman et al. - A three-part, mixed effect model to estimate habitual total nutrient intake distributions from food and dietary supplements in Dutch young children

Buurma et al. - Dietary supplement use in the Netherlands

GREEN Room

B-3 Measurement error in nutritional epidemiology (in Memory of Arthur Schatzkin)
Chair: Yikyung Park
Invited speakers: Victor Kipnis, Donna Spiegelman

Oral presentations:

Midthune et al. - A bivariate measurement error model for an episodically-consumed dietary component and energy: application to nutritional epidemiology

Börnhorst et al. - Diet-obesity relationships in children: Approaches to handle implausible dietary records

Dekker et al. Improving ethnic-specific Food Frequency Questionnaires by different qualitative approaches

Geelen et al. - Variation of bias in protein and potassium intake collected with 24-h recalls across European populations using multilevel analysis
C-3 New technologies for objective monitoring of physical activity
Chair: Stephen Intille
Invited speaker: Stephen Intille

Oral presentations:

*Bélanger et al.* - Up to half of steps performed is not measured by accelerometers in obese individuals

*Cain et al.* - Comparison of older and newer generations of ACTIGRAPH accelerometers with and without the low frequency extension

*Slinde et al.* - Validation of a multisensor armbands’ capacity to estimate energy expenditure in overweight and obese lactating women using doubly labeled water

*Doherty et al.* - Making counts, count more? Using wearable cameras to contextualise accelerometer data

12.30-14.30

**ATRIUM - Poster session**

Lunch Break at FAO cafeteria

14.30-16.00

**GREEN Room**

A-4 Dietary patterns: Methodological advances and new research directions
Chair: P.K. Newby

Oral presentations:

*Reedy et al.* - A comparison of four diet quality indexes with all-cause and cause-specific mortality

*Lassalle et al.* - Association between dietary scores and 13-y weight change and obesity risk in a French prospective cohort: Comparison of their predictive value

*Tognon et al.* - Applications and modifications of the Mediterranean diet index for a more precise estimate of the association with longevity and morbidity

*Krebs-Smith et al.* - Development and evaluation of the Healthy Eating Index-2010

*Miller et al.* - Dietary patterns and colorectal cancer incidence: a classification tree analysis

**IRAN Room**

B-4 Advanced statistical methods for objective monitor data
Chair: John Staudenmayer
Invited speaker: John Staudenmayer
Oral presentations:

Lyden et al. - Validation of a novel method to estimate METs from free-living accelerometer data: The Sojourn Method

De Vries et al. - Evaluation of neural networks to identify types of activity among children using accelerometers, global positioning systems and heart rate monitors

Butte et al. - How much energy do preschoolers really expend? Application of advance statistical methods to predict energy expenditure and physical activity levels in preschoolers

MALAYSIA Room

C-4 Assessment of physical activity in children and youth
Chair: Jo Salmon
Invited speaker: Jo Salmon

Oral presentations:

Colley et al. - Step count target to measure adherence to physical activity guidelines in children

Garriguet et al. - Comparing parent-report and directly measured physical activity, sedentary behaviour and sleep in Canadian children and their association with health

Belcher et al. - Self-reported versus objectively measured physical activity & cardiometabolic biomarkers among youth in NHANES

Colley et al. - The pattern and timing of sedentary behaviour are related to body mass index in boys but not girls

16.00-16.30 Coffee break

16.30-18.00 GREEN Room

A-5 Assessment of dietary patterns for health
Chair: Catherine Champagne

Oral presentations:

Miller et al. - The Dietary Approaches to Stop Hypertension (DASH) diet index scores and colorectal cancer risk: A comparison of four approaches

Möller et al. - Mediterranean diet score and prostate cancer risk in Sweden

Ashton et al. - How well does a type 2 diabetes prevention index score (t2dpis), predict incidence of the disease in the UK Women’s Cohort Study?

Kimokoti et al. - Dietary patterns of women, abdominal obesity, and metabolic syndrome: the Framingham nutrition studies
Letenneur et al. - Association between diet and hip fracture risk: Comparison between a priori (medi score) and a posteriori derived dietary patterns in elderly people

**IRAN Room**

**B-5 Measurement and detection of food consumed outside the home**  
Chair: Nelvia Steyn  
Invited speaker: Nelvia Steyn, Carlos Montiero

**Oral presentations:**

**Buck et al.** - Does environmental food supply influence junk food consumption of preschool and school children? First results of the IDEFICS Study

**Gorgulho et al.** - Out-of-home eating prevalence in the city of São Paulo, Southeast Brazil


**Naska et al.** - The Hector Eating Out Questionnaire: A data collection tool to assess out of home dietary intakes

**MALAYSIA Room**

**C-5 Assessment of Sedentary Behavior**  
Chair: Neville Owen  
Invited speaker: Neville Owen

**Oral presentations:**

**Chau et al.** - Measuring workers’ sitting time by domain: The Workforce Sitting Questionnaire (WSQ)

**Csizmadi et al.** - The Sedentary Time and Activity Reporting Questionnaire (STAR-Q): A comprehensive tool to assess sedentariness and activity energy expenditure

**Hamilton et al.** - Measuring episodes of sedentary behaviour using SenseCam: A pilot study

**Timperio et al.** - Agreement between activPAL and ActiGraph for assessing children’s sedentary time

Optional banquet outside FAO
GREEN Room

A-6 New technologies for dietary assessment
Chair: Amy Subar

Oral presentations:

Delve et al. - The impact of using calibrated utensils to assess portion sizes in infants aged 4-18 months

Touvier et al. - Comparison between an interactive web-based self-administered 24h dietary record and an interview by dietitian for large-scale epidemiological studies

Timon et al. - Validation of a novel method of dietary assessment in an older adult population: The NANA project

Christensen et al. - The validity of micronutrient intake in a web-based food frequency questionnaire: Meal-Q

Subar et al. - Adapting the US Automated Self-administered 24-hour dietary recall (ASA24) for use in multiple populations

Illner et al. - Evaluation of innovative technologies for measuring diet in epidemiological studies

IRAN Room

B-6 Measuring dietary diversity
Chair/co-chair: Marie Claude Dop, Joyce Luma
Invited speakers: Nelia Steyn, Mary Arimond

Oral presentations:

Moursi et al. - Association between dietary diversity and child growth in rural Uganda and Mozambique

Mathiassen et al. - Household Food Consumption: looking beyond the score

Büchner et al. - Comparison of Diet Diversity Scores for fruit and vegetables and plasma carotenoids levels in the cross-sectional study of the European Prospective Investigation into Nutrition and Cancer (EPIC)

Burke et al. - U.S. trends in dietary variety and its association with BMI and micronutrient intakes among younger and older age groups

MALAYSIA Room

C-6 Characteristics and impacts of measurement error in physical activity data
Chair: Sarah Nusser
Invited speaker: Sarah Nusser

Oral presentations:

Matthews et al. - Evaluation of the performance of a previous day recall and the ActiGraph Monitor for measures of active and sedentary time
Tooze et al. - A measurement error model for physical activity level measured by a questionnaire, with application to the NHANES 1999-2006 questionnaire

Neuhouser et al. - Physical activity assessment: biomarkers and self-report of activity-related energy expenditure in the Women’s Health Initiative

10.30-11.00 Coffee break

11.00-12.30 IRAN Room

A-7 Characterizing sustainable diets and biodiversity
Chair/co-chair: Ruth Charrondiere, Barbara Burlingame
Invited speaker: T. Longvah

Oral presentations:

Burlingame et al. - Improving dietary assessment methodologies for characterizing sustainable diets

Charrondiere et al. - Tools to improve the evidence of the importance of biodiversity for nutrition

Monteiro et al. - Brazilian northern and southeastern food diversity

Ntandou-Bouzitou et al. - Effect of introduced foods on the diversity of traditional foods and its possible implications on diets and nutritional status of rural poor communities in Southern Benin

GREEN Room

B-7 Measurement of physical activity in low and middle income countries
Chair: Heather Bowles
Invited speaker: Olga Lucia Sarmento

Oral presentations:

Khandpur et al. - Physical activity among adolescents in India: Objective measurement

Anjos et al. - Physical activity pattern and pedometer counts of adults from Niteroi, Rio de Janeiro, Brazil: The Nutrition Physical Activity and Health Survey

Barnes et al. - Adapting a Canadian process for the synthesis and translation of physical activity knowledge in Mexico

MALAYSIA Room

C-7 Measurement Issues in walking and cycling for transportation
Chair: Andersen Lars Bo
Invited speaker: Andersen Lars Bo
**Oral presentations:**

*Børrestad et al.* - Validation of self-reported transport

*Cleland et al.* - Differential distribution of domain-specific physical activities according to urban-rural area of residence among adults and children

*Wood et al.* - Accuracy of prediction equations for estimating the oxygen cost of self-paced walking speed in adults

*Kelly et al.* - Can we use digital life-log images to investigate the error on self-reported journey behaviour in school children? Results from a pilot study

*Merom et al.* - How well can we monitor the habit and speed of travel-related walking and cycling at the population level?

**12.30-14.30**

**ATRIUM - Poster session**

Lunch Break at FAO cafeteria

**14.30-16.00**

**IRAN Room**

**A-8 Challenges in assessing diets of children and adolescents**

Chair/co-chair: Lauren Lissner, Gianni Barba

Invited speaker: Christel Larsson

**Oral presentations:**

*Caulfield et al.* - The use of a harmonized protocol to capture dietary intakes of children from birth to 2 years in 8 countries: the Malnutrition-Enteric Disease MAL-E

*Lanfer et al.* - FFQ-based indices to reflect children’s propensities towards fat and sugar

*Burrows et al.* - Who is the most accurate reporter of child energy intake - mothers, fathers or the child? - a doubly labelled water validation study of an FFQ

*Ambrosini* - Tracking an obesogenic dietary pattern from 7 to 13 years of age: the Avon longitudinal study of parents and children (ALSPAC)

**MALAYSIA Room**

**B-8 New technology for self-report measurement of physical activity**

Chair: Charles E. Matthews

Invited speakers: Genevieve Fridlund Dunton, Charles E. Matthews

**Oral presentations:**

*Lagerros et al.* - Estimating physical activity using cell phones: a randomized population-based study
**Beer-Borst et al.** - Development and test of a smartphone application for synchronized real-time dietary assessment and physical activity analyses

**Bonn et al.** - A doubly labeled water validation of the new web-based physical activity questionnaire “Active-Q”

**GREEN Room**

**C-8 Biomarkers in dietary assessment (in Memory of Sheila Bingham)**
Chair/co-chair: Nancy Potischman, Catherine Champagne

**Oral presentations:**

**Subar et al.** - Checking for completeness of 24-hour urine collection using PABA not necessary in the Observing Protein and Energy Nutrition (OPEN) study

**Vandevijvere et al.** - Evaluation of food and nutrient intake assessment using concentration biomarkers in European adolescents from the Helena Study

**Freedman et al.** - Results of joint analysis of four large validation studies of dietary self-report instruments that use recovery biomarkers

**Maskarinec et al.** - Urinary isoflavonoids as biomarkers of soy intake during a randomized crossover dietary intervention

**Wang et al.** - Evaluation of plasma c15:0 and c17:0 as biomarkers of dairy fat intake in five European centers studied in the EFCOVAL study

**Landberg et al.** - Alkylresorcinols and their metabolites in plasma and urine as biomarkers of whole grain wheat and rye: Which one works best?

16.00-16.30 Coffee break

16.30-18.00 **GREEN Room**

**Debate Self-report and objective monitoring: Do they measure the same thing?**
Chair: Rick Troiano
Invited speakers:

**Nuala Byrne** (Yes. Self-report and devices measure the same thing.)

**Heather Bowles** (No. Self-report and devices measure different things.)

Closing session
**Barbara Burlingame**

Closing message
**Modibo Traoré,** Assistant Director-General Agriculture Department
WORKSHOP 1

Measurement Error 1- Understanding Measurement Error in Diet and Physical Activity

Janet Tooze, Ph.D., Wake Forest U.
Kevin Dodd, Ph.D., National Cancer Institute

Learning Objectives:
Understand that random and systematic measurement errors may occur in dietary and physical activity assessment and that these errors may impact the results of surveillance and epidemiologic studies
• Understand how to design dietary and physical activity studies to be able to adjust for measurement error
• Be aware of statistical methods that can adjust for measurement error in surveillance and epidemiologic studies

Description: This workshop is designed for public health professionals and epidemiologists who focus on diet and/or physical activity. The workshop will address sources of measurement error, discuss aspects of study design that permit the use of statistical methods to correct for measurement error, and provide an overview of these methods for both surveillance and epidemiologic studies. In the discussion of statistical methods, the use of formulae will be kept to a minimum, and the emphasis will be on the need for and the concepts behind these methods, rather than on the specific details of implementation.

WORKSHOP 2

Dietary Patterns: Moving the Science Forward

PK Newby, Boston University School of Medicine
Jill Reedy, National Cancer Institute

This workshop will provide researchers with an opportunity to learn about the current state-of-the-science regarding dietary patterns research and discuss a framework that incorporates additional data layers to extend beyond measuring intake, including such dimensions as time, place, and environmental context. The meeting will identify key methodological questions, reflect on appropriate methods for addressing these questions, and explore novel patterning methods from other disciplines-including engineering, architecture, and systems science-to further advance the utility of these methods in diet and activity research.
WORKSHOP 3
Measurement Error 2: Software Solutions for Estimating Usual Intake
Dennis Buckman, Ph.D., Information Management Services, Inc.
Alicia Carriquiry, Ph.D., Iowa State University
Heiner Boeing, Ph.D., DIFE
Arnold L. M. Dekkers, Ph.D., RIVM
Hilko van der Voet, Ph.D., Wageningen UR

Learning Objectives:
Understand that statistical modeling is necessary for estimating characteristics of long-term exposure (e.g., usual dietary intake) using a limited number of replicated short-term assessments.

Be aware of some of the available software implementations that exist for performing the required statistical modeling.

Understand the capabilities and limitations of the various implementations.

Description:
This workshop is designed for public health professionals and epidemiologists who focus on diet. The workshop will present an overview of publicly-available software implementations that estimate distributions of usual dietary intake based on replicated short-term instruments such as 24HR recalls. The primary focus will be on the types of output available from the various implementations, with limited emphasis placed on differences in theoretical underpinnings of the particular models used.
POSTER SESSION
Monday, May 14

- Assessment of the food environment (PP001-PP12)
- Measuring food and nutrition security at household level (PP013-PP021)
- Evaluating the physical activity environment (PP022-PP024)
- Assessing diets-gender dimensions (PP025-PP033)
- Measuring activity differences between males and females (PP034)
- Dietary surveillance (PP035-PP064)
- Assessment for international policies and global achievements (MDG) (PP065-PP074)
- Measuring diet and physical activity across life course (PP075-PP103bis)
- Exercise, physical activity and recommendations (PP104-PP114)
- Obesity and underreporting (PP115-PP127)

Tuesday, May 15

- International harmonization in nutritional epidemiology (PP129-PP137)
- Assessing dietary supplement use (PP138-PP146)
- Measurement errors in nutritional epidemiology (PP147-PP167)
- Diet and physical activities methodologies for children (PP168-PP192)
- Diet patterns, indices and methods (PP193-PP259)
- Tools and instruments for monitoring physical activity (PP260-PP278)
- Physical activity in multiple domains (PP279-PP289)

Wednesday, May 16

- Novel approaches and new technologies for measuring diet (PP290-PP334)
- Dietary diversity (PP335-PP349)
- Measurement errors in activity research (PP350-PP354)
- Methods to characterize sustainable diets (PP355-PP357)
- Biomarkers and biomonitoring (PP358-PP374)
- Fruit and vegetable biomarkers (PP375-PP377)
- Measurements errors (PP378-PP383)
- Impact approaches to measuring physical activity (PP384-PP386)
- Nutrients and contaminants (PP387-PP400)
- Harmonization of methodologies (PP401-PP412)
- Food biodiversity assessments (PP413-PP416)
ASSESSMENT OF THE FOOD ENVIRONMENT

PP 001 - MEASURING MOTHER-CHILD INTERACTIONS: PROVIDING RICH OBSERVATIONAL DATA AROUND HOME ROUTINES PERTAINING TO PRESCHOOLERS' EATING AND PLAYTIME ACTIVITIES
H. Skouteris1, D. Demir1
1 School of Psychology, Deakin University

PP 002 - TOWARDS COMPREHENSIVE, MIXED METHOD ASSESSMENT OF THE IMPACT OF POLICY ON THE QUALITY OF THE FOOD ENVIRONMENT
D. Olstad1, K. Raine2, T. Caulfield3, L. McCargar1
1 Alberta Institute for Human Nutrition, University of Alberta, 2 Centre for Health Promotion Studies, University of Alberta, 3 Health Law Institute, University of Alberta

PP 003 - APPLYING A DIET QUALITY INDEX TO ASSESS THE HEALTHFULNESS OF COMMUNITY-LEVEL FOOD ENVIRONMENTS
S. Kirkpatrick1, J. Reedy1, J. Harris2, S. Krebs-Smith1
1 National Cancer Institute, 2 Yale Rudd Center for Food Policy and Obesity

PP 004 - IDENTIFYING THE VISITED FOOD ENVIRONMENT (VFE) OF YOUNG ADULTS: A PILOT STUDY
R. Tyrrell1, A. A. Lake2, S. Hodgson3, W. Wills4, A. J. Adamson1
1 Human Nutrition Research Centre, Institute of Health and Society, Newcastle University, 2 Centre for Public Policy and Health, School of Medicine and Health, Wolfson Research Institute Durham University Queen’s Campus, 3 Institute of Health and Society, Newcastle University, 4 Centre for Research in Primary and Community Care, University of Hertfordshire

PP 005 - INDIGENOUS KNOWLEDGE ON IRANIAN TRADITIONAL ORGANIC FOOD
A. Koocheki1, E. Milani2
1 Department of Food Science and Technology, Ferdowsi University of Mashhad (FUM), 2 Department of Food Processing, Iranian Academic Center for Education Culture and Research (ACECR)

PP 006 - CONTROL OF LABELS ON FRESH-VEGETABLE PACKAGES AND QUALITY CONTROL SYSTEM IN IN-HOUSE AND OUTSOURCED FOOD SERVICES OF CAMPINAS (SP) AND ITS DISTRICTS
K. R. M. Rodrigues1, E. Salay2
1 Faculty of Nutrition, Catholic University of Campinas, PUC-Campinas, 2 Department of Food and Nutrition (DEPAN), Faculty of Food Engineering, University of Campinas, UNICAMP

PP 007 - RELATIONSHIP BETWEEN VEGETABLE-RECEIVING PRACTICES AND NUMBER OF MEALS SERVED BY FOOD SERVICES
K. R. M. Rodrigues1, E. Salay2
1 Faculty of Nutrition, Catholic University of Campinas, PUC-Campinas, 2 Department of Food and Nutrition (DEPAN), Faculty of Food Engineering, University of Campinas, UNICAMP

PP 008 - MEASURING THE NUTRITION ENVIRONMENT: A DATA MINING APPROACH
S. Partington1, D. Lacombe1, J. Bryant2
1 Regional Research Institute West Virginia University, 2 Animal & Nutritional Sciences West Virginia University
MEASURING FOOD AND NUTRITION SECURITY AT HOUSEHOLD LEVEL

PP 009 - THE CURRENT STATE OF FOOD SYSTEM MEASUREMENT IN THE UNITED STATES
A. L. Yaroch1, C. Pinard1, C. Byker2
1Gretchen Swanson Center for Nutrition, 505 Durham Research Plaza, 2Montana State University

PP 010 - ASSOCIATIONS BETWEEN CHILDREN’S EATING BEHAVIOURS AND FEATURES OF THEIR RESIDENTIAL AND SCHOOL NEIGHBOURHOOD FOOD ENVIRONMENTS
Andrea van Hulst (1,2), Tracie A. Barnett (1,2), Lise Gauvin (1,3,4), Mark Daniel (1,5,6), Yan Kestens (1,3), Madeleine Bird (1,2), Katherine Gray-Donald (7), Marie Lambert (2,8)
1) Department of Social and Preventive Medicine, University of Montreal, (Qc) Canada;
2) Centre de recherche du Centre Hospitalier Universitaire Sainte-Justine, Montréal, (Qc) Canada;
3) Centre de Recherche du Centre Hospitalier de l’Université de Montréal (CRCHUM), Montréal, (Qc) Canada;
4) Centre de Recherche Léa-Roback sur les Inégalités Sociales de Santé de Montréal, Université de Montréal, Montréal, (Qc) Canada;
5) School of Health Sciences, University of South Australia, Adelaide, Australia;
6) Department of Medicine, St Vincent’s Hospital, The University of Melbourne, Melbourne, Australia;
7) School of Dietetics and Human Nutrition, McGill University, Montréal, (Qc) Canada;
8) Département de pédiatrie, Université de Montréal, Montréal, (Qc) Canada

PP 011 - USE OF A MODIFIED NUTRITION ENVIRONMENT MEASUREMENT SURVEY TO ASSESS HEALTHY OPTIONS IN FILIPINO RESTAURANTS AND GROCERY STORES IN SAN DIEGO, CALIFORNIA
Ofelia Dirige, DrPH, RD, Adjunct Professor, Graduate School of Public Health and Lecturer, Center for Asian Studies, San Diego State University and President and Chief Executive Officer, Kalusugan Community Services; Riz Oades, PhD, late Professor Emeritus, Department of History, SDSU and Director of the Filipino American Wellness Center; Marybeth Bautista, BS, Kalusugan Community Services; and Jim Sallis, PhD, Distinguished Professor, University of California San Diego.

PP 012 - ASSESS THE NUTRITIONAL QUALITY OF FOOD MARKETING ACROSS COMMUNITIES
Y. Ma1, A. Labban2, M. Cherian2, A. Shaban-Nejad33, D. L. Buckeridge3, L. Dubé2
1School of Business, University of Alberta, 2Desautels Faculty of Management, McGill University, 3McGill Clinical and Health Informatics

PP 013 - DEVELOPMENT OF DIETARY FORMULATION USING LINEAR PROGRAMMING BASED ON TYPICAL INDONESIAN DIET
I. R. A. P. Jati1, D. Nöhr1, H. K. Biesalski1
1Institute of Biological Chemistry and Nutrition, Universität Hohenheim

PP 014 - PHYSICAL ACTIVITY VERSUS POVERTY: WHAT DRIVES UNDERNOURISHMENT?
A. Mathiassen1, S. Hollema1, S. T. Vikan2
1WFP, 2Statistics Norway

PP 015 - PREVALENCE OF HOUSEHOLD FOOD AND NUTRITION SECURITY IN A STATE IN NIGERIA
O. C. Nzeagwu1, B. E. Udoh1
1Human Nutrition and Dietetics

PP 016 - COMPREHENSIVE POPULATION MEASURES OF FOOD SECURITY
C. Pollard1, T. Landrigan2, M. Lester3, A. Nyaradi1, P. Ellies3, A. Daly1, D. Kerr1
1Curtin University, 2Australian Bureau of Statistics, 3Health Department of WA
PP 017 - FOOD AND NUTRIENT INTAKES ACCORDING TO INCOME IN KOREAN MEN AND WOMEN
I. Hur1, M. Jang2, K. Oh2
1Department of Food Science and Nutrition, University of Minnesota, 2Division of Health and Nutrition Survey, Korea Centers for Disease Control and Prevention,

PP 018 - MEASURING FOOD INSECURITY AMONG DISPLACED NORTH KOREAN CHILDREN WITH THE HOUSEHOLD FOOD INSECURITY ACCESS SCALE
S. K. Lee1, S. Y. Nam1
1Food and Nutrition, Inha University

PP 019 - SPATIAL MARKET PRICE MONITORING (SMPM): A METHODOLOGY FOR USING GIS AND SPATIAL ANALYSIS TECHNIQUES TO PREDICT FOOD PRICES OUTSIDE OF MARKET CATCHMENT
S. F. Raza1, J. Rivers1
1World Food Programme

PP 020 - THE PILOT TEST OF FOOD SECURITY QUESTIONNAIRE FOR APPLICATION TO KNHANES
S. Kweon1, Y. Kim1, J. K. Park1, K. Oh1
1Korea Centers for Disease Control & Prevention

PP 021 - EFFECT OF MARKET (TYPE AND ACCESSIBILITY) ON HOUSEHOLD’S FOOD INSECURITY AND NUTRITIONAL STATUS OF MOTHERS AND CHILDREN OF RURAL POOR AREAS IN BENIN
S. ODJO1, G. D. NTANDOU-BOUZITOU2, R. MAMANE1, C. ADANDEDJAN2, R. DOSSA1
1Department of Nutrition and Food Sciences, Faculty of agronomic Sciences, University of Abomey-Calavi, 2Bioversity International, West and Central Africa

EVALUATING THE PHYSICAL ACTIVITY ENVIRONMENT

PP 022 - THE IMPORTANCE OF ASSESSING PHYSICAL ACTIVITY IN HEALTH PROMOTING SCHOOL
M. Scatigna1, L. Leone2, A. Bernabei3, A. Cutilli3, A. R. Giuliani1, M. De Felice1, C. Pesce4, L. Fabiani1
1University of L’Aquila, Internal Medicine and Public Health, 2CEVAS, Counseling and Evaluation of Social and Health Policies, 3Abruzzo Region - Health Directorate, 4University ‘Foro Italico’, Department of Human Motion and Sport Science

PP 023 - SIMPLE TO COMPLEX MODELING OF BREATHING VOLUME
D. John1, J. Staudenmayer2, P. Freedson1
1Kinesiology, 2Mathematics and Statistics

PP 024 - BUILT ENVIRONMENT AND PHYSICAL ACTIVITY IN ADULTS LIVING IN LOW SOCIOECONOMIC REGION IN SAO PAULO CITY, BRAZIL
A. Antonio Florindo1
1University of São Paulo

ASSESSING DIETS-GENDER DIMENSIONS

PP 025 - INADEQUATE VITAMIN D INTAKE AND VITAMIN D STATUS IN ADOLESCENTS FROM THE HEALTH SURVEY – SÃO PAULO (ISA-SP 2008), BRAZIL
K. V. Giudici1, E. Verly Junior1, D. M. L. Marchioni1, R. M. Fisberg1, L. A. Martini1
1Department of Nutrition, School of Public Health, University of São Paulo
PP 026 - ANALYSIS OF BODY COMPOSITION, WEIGHT CONTROL AND DIETARY BEHAVIORS WITH DIFFERENT AGE OF ADULT WOMEN IN SEOUL, KOREA
J. O. Koo1, S. Park2
1Home Economics, 2Food and Nutrition

PP 027 - EFFECT OF WOMEN’S WEIGHT LOSS PROGRAM ON BODY WEIGHT, EATING HABIT, STRESS INDEX AND BLOOD VASCULAR AGE IN KOREA
Koo J. O. 1 , Park. H.J. 1 Cho S.K 2
1Home Economics Seoul Republic of Korea, Juvis center Seoul Republic of Korea 2

PP 028 - RED MEAT INTAKES ARE ASSOCIATED WITH A WORSE LIPID PROFILE IN WOMEN
A. M. Carvalho1, J. Steluti1, J. G. Martins1, M. A. Castro1, S. S. C. Selem1
1Department of Nutrition of Public Health School - University of Sao Paulo

PP 029 - INTERACTION BETWEEN IRS1 POLYMORPHISM AND MACRONUTRIENT INTAKES ON INCIDENCE OF TYPE 2 DIABETES IN WOMEN AND MEN FROM THE MALMÖ DIET AND CANCER COHORT
U. Ericson1, S. Hellstrand1, E. Wirfält1, E. Sonestedt1, B. Gullberg1, M. Orho-Melander1
1Department of Clinical Sciences in Malmö, Lund University

PP 030 - GENDER DIFFERENCES EXIST IN THE RELATIONSHIP BETWEEN ACCULTURATION AND DIETARY INTAKE AMONG MONGOLIAN IMMIGRANTS IN SOUTH KOREA
Z. Tserendejid1, H. Park1
1Dept of Food and Nutrition, Myongji University

PP 031 - THREE DAY RECORD OF DIETARY INTAKE OF KUWAITI CHILDREN 6-10 YEARS OF AGE
B. Al-Lahou1, F. Al-Khulaifi1, A. Al-Othman1, Z. Hussain2, A. Bader2
1Kuwait Institute for Scientific Research, 2Food and Nutrition Administration, Ministry of Health

PP 032 - VALIDATION OF PROTEIN AND POTASSIUM INTAKE IN THE NORWEGIAN WOMEN AND CANCER STUDY FOOD FREQUENCY QUESTIONNAIRE
G. Skeie1, I. T. Laugsand Lillegaard2, T. Braaten1, E. Lund1, A. Hjartåker3, L. Frost Andersen3
1Department of community medicine, University of Tromsø, 2Norwegian scientific committe for food safety,, 3Department of Nutrition, Institute of basic medical sciences, University of Oslo,

PP 033 - IMPROVING ESTIMATES OF FATTY ACID INTAKE BY USING REPORTED COOKING FATS IN FOOD DIARIES IN EPIC-NORFOLK – AN EXTENSION TO THE DATA-ENTRY PROGRAM
N. Powell1, A. Bhaniani1, M. Lentjes1, A. Welch2, K. Khaw3
1University of Cambridge, Public Health & Primary Care, 2University of East Anglia, Diet & Health Group , 3University of Cambridge, Clinical Gerontology

MEASURING ACTIVITY-DIFFERENCES BETWEEN MALES AND FEMALES

PP 034 - TRACKING OF PEDOMETER DETERMINED PHYSICAL ACTIVITY. A 10 YEAR FOLLOW UP STUDY FROM EARLY ADOLESCENCE TO EARLY ADULTHOOD IN SWEDEN
R. Anders1, E. Yvonne2
1Linnaeus University, 2Oscars Gymnasium
DIETARY SURVEILLANCE

PP 035 - SURVEILLANCE OF IODINE STATUS IN BELGIUM BY MEANS OF NEONATAL TSH CONCENTRATIONS: TACKLING METHODOLOGICAL CHALLENGES
S. Vandevijvere1, R. Moreno-Reyes2
1Public Health and Surveillance, 2Nuclear Medicine

PP 036 - USDA FOOD PATTERNS EQUIVALENTS DATABASE: ITS ROLE IN NUTRITION MONITORING AND SURVEILLANCE IN THE UNITED STATES
S. Bowman1, M. Shmizu1, J. Friday1, B. Barrows1, J. Clemens1, A. Moshfegh1
1U.S. Department of Agriculture, Agricultural Research Service, Beltsville Human Nutrition Research Center,

PP 037 - RECIPE DATABASE DEVELOPMENT FOR RESTAURAMT FOODS FOR PROCESSING OF DIETARY INTAKE DATA OF KNHANES
E. Koh1, H. S. Lee1, Y. Lee1, D. Kim1, J. Lee1, J. Kim1, S. Park1, S. Park1, S. Kweon2, K. Oh2, C. Kim1
1Food & Nutrition Industry, KHIDI, 2Health & Nutrition Survey, KCDC

PP 038 - Pedometer-Determined Physical Activity in Danish Adults Including Non-Ambulatory Activities: 2007-2008
J. Matthiessen1, A. Biltoft-Jensen1, A. Raustorp2, B. Worm Rothausen1
1Division of Nutrition, National Food Institute, Technical University Denmark, 2School of Human Sciences Division of Physical Education, University of Kalmar and University of Gothenburg, Department of Food, Nutrition and Sport

PP 039 - Risk of Suboptimal Iodine Intake in Pregnant Norwegian Women
A. L. Brantsaeter1, M. H. Abel2, M. Haugen1, H. M. Meltzer1
1Norwegian Institute of Public Health, Division of Environmental Medicine, 2Tine SA

PP 040 - Fundamental Movement Skills: A Necessary Prerequisite for Physical Activity, but Missing from Population Surveillance
L. Hardy1, T. Okely2, P. Espinel-Diaz1, T. Reinten-Reynolds3, A. Bauman1
1University of Sydney, 2University of Wollongong, 3NSW Ministry of Health

PP 041 - DINO (Diet in Nutrients Out) – An Integrated Dietary Coding and Analysis System for Dietary Assessment Studies
D. Cole1, N. Ziauddeen1, D. Pell1, A. Harvey1, E. Fitt1
1MRC Human Nutrition Research

PP 042 - Voluntary Food Fortification in the United States: Potential for Excessive Micronutrient Intakes
J. Sacco1, K. Dodd2, S. Kirkpatrick2, V. Tarasuk1
1Department of Nutritional Sciences, University of Toronto, 2National Cancer Institute

PP 043 - Nutritional Evaluation of Pregnant Women by Scores of Healthy and Unhealthy Nutrition
M. Barreto Malta1, C. B Gomes2, C. MGL Parada2, M. A. BL Carvalhaes2
1Saúde Coletiva, 2Enfermagem
PP 044 - INADEQUATE INTAKE, ANTHROPOMETRY AND LIFESTYLE OF COLLEGE HEALTHCARE STUDENTS.
M. Barreto Malta1, L. S Bronzi1, P. M Donato1, J. e. Corrente2, M. A. BL Carvalhaes3, S. J Papini3
1Saúde coletiva, 2Bioestatística, 3Enfermagem

PP 045 - CONSUMPTION OF FORTIFIED FOODS AND THEIR IMPACT ON TOTAL VITAMIN INTAKE – RESULTS FROM THE DUTCH FOOD CONSUMPTION SURVEY 2007-2010
M. Ocke1, C. van Rossum1, H. Fransen1, J. Verkaik-Kloosterman1, E. Buurma-Rethans1
1RIVM

PP 046 - DUTCH NATIONAL FOOD CONSUMPTION SURVEY 2007-2010 DIET OF CHILDREN AND ADULTS AGED 7 TO 69 YEARS
C. T. M. van Rossum1, A. M. Roos1, A. Dekkers1, C. Wilson1, C. H. M. Oosterhout1, E. J. Buurma-Rethans1, E. J. de Boer1, H. P. Fransen1, H. A. M. Brants1, J. Verkaik-Kloosterman1, J. J. M. M. Drijvers1, M. C. Ocké1, M. Jansen-van der Vliet1, E. M. Niekerk1, R. J. de Klein1, S. Westenbrink1, Z. Etemad1
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PP 047 - SALT CONSUMPTION IN THE NETHERLANDS - DUTCH NATIONAL FOOD CONSUMPTION SURVEY 2007-2010
C. T. M. van Rossum1, E. J. M. Buurma-Rethans1, H. P. Fransen1, J. Verkaik-kloosterman1, M. Jansen-van der Vliet1, D. van der A1, M. A. H. Hendriksen1
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PP 048 - CAPTURING USUAL INTAKES FOR A RANGE OF DIETARY SURVEILLANCE QUESTIONS: LAYERS OF COMPLEXITY
K. Dodd1, S. Kirkpatrick1, S. Krebs-Smith1
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PP 049 - COMPARED TO 24-HOUR RECALL DATA, SELF-PERCEIVED FOOD INTAKE FREQUENCIES EXHIBIT MISCLASSIFICATION DIFFERENTIALLY ACROSS FOOD GROUPS
K. CASTETBON1, V. DESCHAMPS1, B. SALANAVE1, R. HAJJ HASSAN1, M. VERNAY1, A. MALON1, S. HERCBERG2
1Institut de veille sanitaire/Université Paris 13, 2Université Paris 13

PP 050 - QUALITY CONTROL IN DIETARY MONITORING. EXPERIENCES IN THE DUTCH NATIONAL FOOD CONSUMPTION SURVEY 2007-2010
J. Drijvers1, Z. Etemad1, M. Niekerk1, M. Ocké1, C. van Oosterhout1, A. Roos1, H. Brants1, E. Buurma-Rethans1, A. Dekkers1, C. van Rossum1
1RIVM

PP 051 - FRUIT AND VEGETABLES INTAKE AMONG HIGH INCOME BRAZILIANS
T. Da Costa1, C. Silva2
1Department of Nutrition, 2Faculty of Health Sciences

PP 052 - SURVEILLANCE OF FOOD QUALITY IN SCHOOLS – DEVELOPMENT OF THE WEB-BASED INSTRUMENT SKOLMATSVERIGE [SCHOOL FOOD SWEDEN]
E. Patterson1, K. Lilja1, A. Quetel2, L. Schäfer Elinder1
1Community Nutrition and Physical Activity, Dept. Public Health Sciences, Karolinska Institutet, 2National Food Agency,
PP 053 - WHY YOU NEED SURVEILLANCE OF POPULATION BASED DIETARY ATTITUDES AND BELIEFS
C. Pollard1, A. Daly2
1Health Department of WA, 2Curtin University

PP 054 - FACTORS AFFECTING THE FREQUENCY AND PREFERENCE OF VEGETABLE AND FRUIT CONSUMPTION
H. Park1, Y. Yu1, S. Lee2, H. Ryou3, Y. Kim4, Z. Tserendejid1, G. Go1, W. Lv1
1Department of Food and Nutrition, Myongji University, 2Department of Food and Nutrition, Sungshin Women's University, 3Health Promotion Division, Seoul Metropolitan Government, 4The Korean Society of Community Nutrition

J. Walton1, B. McNulty2, A. Nugent2, M. Gibney2, A. Flynn1
1School of Food & Nutritional Sciences, UCC,, 2UCD Institute of Food and Health,

PP 056 - TOTAL WATER INTAKES IN A NATIONALLY REPRESENTATIVE SAMPLE OF IRISH ADULTS – INTAKES AND SOURCES
L. Keyes1, J. Walton1, A. Flynn1
1Food & Nutritional Sciences, UCC,

PP 057 - ASSOCIATIONS BETWEEN INTAKES OF WATER AND ITS MAIN DIETARY SOURCES WITH DIETARY QUALITY IN IRISH ADULTS
J. Walton1, L. Keyes1, A. Flynn1
1School of Food & Nutritional Sciences, UCC,

PP 058 - A METHODOLOGY DEVELOPMENT FOR A WEB-BASED SURVEILLANCE SYSTEM OF ADOLESCENT FOOD HABITS AND LIFESTYLES – THE ASSO PROJECT
G. Tabacchi1, M. Morici1, A. Bianco2, M. Jemni3, N. Alessi4, L. Censi5, E. Amodio1, C. Mammina1
1Department of Sciences for Health Promotion “G. D’Alessandro” - Section of Hygiene, University of Palermo, Via del Vespro 133, 2Department of Sports Science (DISMOT), University of Palermo, Via Eleonora Duse 2 - 90146, 3Department of Life and Sport Sciences, School of Science, University of Greenwich at Medway, Central Avenue, Chatham Maritime, Kent ME4 4TB, 4The Institute for Educational Technology, Italian National Research Council, Via Ugo La Malfa 153, 5National Research Institute on Food and Nutrition (INRAN), via Ardeatina 546

PP 059 - DIETARY EXPOSURE TO NITRITE AND NITRATE AMONG FINNISH ADULTS AND CHILDREN
V. Mikkilä1, C. Bäckman1, T. Putkonen1, K. Peltonen1, K. Kanninen1, U. Luhtasela1, H. Tapanainen2, S. M. Virtanen2, M. Knip3, R. Veijola4, J. Ilonen5, O. Simell5, K. Savela1
1Food Safety Authority, 2National Institute for Health and Welfare, 3Helsinki University Hospital, 4University of Oulu, 5University of Turku

PP 060 - WHAT, WHEN AND WHERE DO DUTCH CHILDREN AND ADULTS AGED 7-69 YEARS EAT AND DRINK? DUTCH NATIONAL FOOD CONSUMPTION SURVEY 2007-2010
H. Brants1, M. Ocké1, H. Fransen1, M. Nierkerk1, C. van Oosterhout1, J. Drijvers1, C. van Rossum1
1National Institute for Public Health and the Environment

PP 061 - THE DEGREE OF DIFFICULTY IN SURVEY OF FOOD FREQUENCY QUESTIONNAIRE DEPENDS ON AGE IN A PILOT TEST OF KNHANES
S. Kweon1, S. H. Yun1, Y. Kim1, K. Oh1
1Korea Centers for Disease Control & Prevention
PP 062 - VALIDITY OF TWO SHORT INSTRUMENTS TO ASSESS VEGETABLE INTAKE, BOTH INCLUDING AND EXCLUDING POTATOES, IN ADULTS
J. Wright1, J. Sherriff1, J. Mamo1
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PP 063 - DIET ASSESSMENT IN THE NUTRIGENOMICS ERA
A. Turrini1
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PP 064 - ASSIGNING A DAILY MAXIMUM FOR BREAST MILK INTAKE IN SURVEYS OF INFANTS AND YOUNG CHILDREN.
A. M. Stephen1, J. Sommerville1, D. Cole1, L. Bluck1, E. Fitt1, S. West-Sadler1, R. Stratton2
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ASSESSMENT FOR INTERNATIONAL POLICIES AND GLOBAL ACHIEVEMENTS (MDG)

PP 065 - PROGRESS WITH A GLOBAL BRANDED FOOD COMPOSITION DATABASE
E. Dunford1, .. On behalf of the Food Monitoring Group2
1The George Institute for Global Health, 2Food Monitoring Group

PP 066 - PROGRESS WITH A GLOBAL BRANDED FOOD COMPOSITION DATABASE
The Food Monitoring Group1
1Food Policy

PP 067 - BUILDING THE CASE FOR INDEPENDENT MONITORING OF FOOD ADVERTISING ON AUSTRALIAN TELEVISION
L. King1, L. Hebden1, A. Grunseit1, B. Kelly1, K. Chapman2
1University of Sydney, 2Cancer Council NSW

PP 068 - THE WHAT, HOW, WHERE AND WHEN OF FOOD MARKETING TO CHILDREN: A MONITORING FRAMEWORK
L. King1, B. Kelly1, K. Chapman2, A. Grunseit1, L. Hebden1
1University of Sydney, 2Cancer Council NSW

PP 069 - GLOBAL REPORT CARD ON THE PHYSICAL ACTIVITY OF CHILDREN AND YOUTH: A MODEL FOR INTERNATIONAL HARMONIZATION, COMPARISON AND MONITORING
M. Tremblay1
1CHEO Research Institute

T. Da Costa1, Y. Pereira1, I. Moreira1, S. Arruda1
1Department of Nutrition
PP 071 - A NEW APPROACH TO ESTIMATE SAFE MAXIMUM FORTIFICATION LEVELS FOR MICRONUTRIENTS
J. Verkaik-Kloosterman1, A. L. M. Dekkers1, K. W. Dodd2, S. I. Kirkpatrick3, M. C. Ocké1
1National Institute for Public Health and the Environment (RIVM), 2Biometry Research Group, Division of Cancer Prevention, National Cancer Institute (NCI), 3Risk Factor Monitoring and Methods Branch, Division of Cancer Control and Population Sciences, National Cancer Institute (NCI)

PP 072 - REACH: MONITORING AND EVALUATING THE COUNTRY LED PROCESSES OF UN COORDINATED, MULTI-SECTORAL APPROACHES TO SCALING NUTRITION
J. Fanzo1, B. Ljungqvist1, N. Chahid1, A. Perez Zaldivar1
1EDD/World Food Programme

PP 073 - TRIPLE FORTIFICATION OF SALT WITH IODINE, VITAMIN A AND ENCAPSULATED IRON COMPOUNDS: STABILITY AND BIOAVAILABILITY
E. Milani1, A. Koocheki2, M. Hasanabadi1
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PP 074 - IS MINIMUM ACCEPTABLE DIET ASSOCIATED WITH CHILD GROWTH? M&E IMPLICATIONS FOR A GLOBAL AGRICULTURE AND NUTRITION INITIATIVE
R. Heidkamp1, A. Zongrone1, R. Stoltzfus1, P. Menon2
1Cornell University Division of Nutritional Sciences, 2International Food Policy Research Institute

MEASURING DIET AND PHYSICAL ACTIVITY ACROSS LIFE COURSE

PP 075 - VALIDATION OF A FFQ TO ESTIMATE N-3, N-6 AND TRANS FATTY ACIDS INTAKE DURING PREGNANCY USING MATURE BREAST MILK AND FOOD RECALLS.
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J. Ishihara1, R. Takachi2, Y. Ishii3, Y. Shinozawa3, T. Imai4, M. Inoue3
1Sagami Women's University, 2Niigata University, 3National Cancer Center, 4Doshisha Women's College of Liberal Arts

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R. Takachi1, J. Ishihara2, Y. Ishii3, Y. Shinozawa3, T. Imai4, M. Inoue3
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C. Boushey1, T. Schap2, D. Kerr3, E. Delp4
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PP 327 - USING THE SPEARS-DIETARY ASSESSMENT TOOL TO DETERMINE DIETARY IMPACT OF BREAKFAST CONSUMPTION BEHAVIOR AMONG 9 TO 10 YEAR OLD CHILDREN
K. Spears1, H. Himler1, M. Certik1
1Agriculture, Nutrition and Veterinary Science

Aim: To evaluate the dietary impact of breakfast consumption behavior among 9 to 10 year old children.

PP 328 - UK ON-LINE 24H DIETARY RECALL TOOL FOR LARGE SCALE POPULATION STUDIES: DEVELOPMENT, VALIDATION AND PRACTICAL APPLICATION
1Imperial College London, School of Public Health, Department of Epidemiology and Biostatistics, 2University of Leeds, School of Food Science and Nutrition, Nutritional Epidemiology Group, 3University of Leeds, Centre for Epidemiology & Biostatistics, Biostatistics Unit, 4Imperial College London, Faculty of Medicine, Nutrition and Dietetic Research Group, 5University of Leeds, LIGHT Laboratories, Molecular Epidemiology Unit, 6National Cancer Institute, Division of Cancer Control and Population Sciences, Applied Research Program, Risk Factor Monitoring and Methods Branch

PP 329 - EFFECT OF SCHOOL BREAKFAST PROGRAM (SBP) INTAKE ON NATIONAL SCHOOL LUNCH PROGRAM (NSLP) CONSUMPTION USING THE SPEARS-DIETARY ASSESSMENT TOOL
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1Agriculture, Nutrition and Veterinary Science , 2School of Community Health Science

Aim: To examine the effect of School Breakfast Program (SBP) intake on National School Lunch Program (NSLP) consumption using the Spears-Dietary Assessment Tool (Spears-DAT).

PP 330 - TESTING THE AUTOMATED SELF ADMINISTERED 24-HOUR RECALL (ASA24) IN A SAMPLE OF MULTIETHNIC ELDERLY AMERICANS
R. Ettienne-Gittens1, C. Boushey1, D. Au1, S. Murphy1, U. Lim1, L. Wilkens1, L. Kolonel1
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PP 331 - DEVELOPMENT OF A NEW COMPUTER PROGRAM TO ASSESS FOOD CONSUMPTION IN PORTUGUESE SCHOOL-AGE CHILDREN: A QUALITATIVE APPROACH FOR IDENTIFYING FOOD ITEMS.
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J. Kyle1, D. Marais1, G. Gilson1, G. McPherson1
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1Fred Hutchinson Cancer Research Center, 2Ohio State University Comprehensive Cancer Center, 3Viocare Technologies
DIETARY DIVERSITY

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W. Husain1, S. Khokhar1
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1Community Nutrition Department, University for Development Studies, 2Division of Huaman Nutrition, Wageningen University

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1Department of Clinical Sciences

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1Food Science and Technology, School of Chemical Engineering, Faculty of Engineering, The University of New South Wales, 2Department of Resource Management and Consumer Studies, Faculty of Human Ecology, Universiti Putra Malaysia

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U. K. S. K. KHANAM1, S. O. OBA2
1The United Graduate School of Agricultural Science, Gifu University, 2Faculty of Applied Biological Sciences, Gifu University

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1Alberta Health Services - Cancer Care,, 2Health Canada,, 3Cancer Care Ontario,, 4National Cancer Institute,

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V. Marins1, S. Koifman2, R. Pereira3, E. Melo4, D. Ferreira5
1Petropolis Medicine College, 2National School of Public Health (Oswaldo Cruz Fundation), 3Nutrition Institute (Rio de Janeiro Federal University), 4Institute of Nutrition (Rio de Janeiro Federal University), 5Nutrition College (Fluminense Federal University)
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1Ibn Tofail University, 2Mediterranean Agronomic Institute of Bari (MAIB/CIHEAM)

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1Sistemas Biológicos

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1JHSPH, 2Fogarty International Center, 3Network

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B. Julin1, A. Wolk1, L. Bergkvist2, M. Bottai1, A. Åkesson1
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PP 395 - THE NEED FOR EXPANDED DATABASES FOR NON-NUTRITIVE DIETARY COMPONENTS: COMPOUNDS RELATED TO FOOD PREPARATION AS AN EXAMPLE.
R. Sinha1, C. R. Daniel1, J. Holden2, A. J. Cross1
1NEB/NCI/NIH, 2ARS/USDA

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C. Bergkvist1, A. Åkesson1, A. Glynn2, H. Kiviranta3, P. Rantakokko3, A. Wolk1, M. Berglund1
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PP 397 - BEYOND GLYCEMIC INDEX: NEW FOOD INSULIN INDEX
L. Kent1, M. Franz1, J. Brand-Miller2, W. Willett1
1Nutrition, 2Human Nutrirtion

PP 398 - IMPACTS OF GLOBALISATION AND FOOD COMPANIES ON NUTRIENT INTAKES IN THE PACIFIC ISLANDS
W. Snowdon1, A. Prasad2
1C-POND (Fiji National University and Deakin University), 2C-POND, Fiji National University

PP 399 - ESTIMATION OF HABITUAL TOTALIODINE INTAKE IN THE NETHERLANDS, USING A ‘SHRINK THEN ADD’ APPEARACH FOR INTAKE FROM DIFFERENT SOURCES
J. Verkaik-Kloosterman1, A. L. M. Dekkers1, M. C. Ocké1
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ASSOCIATION BETWEEN FLAVONOID AND LIGNAN INTAKES AND RISK OF GASTRIC ADENOCARCINOMA IN THE EUROPEAN PROSPECTIVE INVESTIGATION INTO CANCER AND NUTRITION STUDY (EPIC). R. Zamora-Ros, L. Luján-Barroso, I. Romieu, N. Slimani, A. Scalbert, C. A. González

1Unit of Nutrition, Environmental and Cancer, Catalan Institute of Oncology (ICO-IDIBELL), 2Nutrition and Metabolism Section, International Agency for Research on Cancer (IARC)

HARMONIZATION OF METHODOLOGIES

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A. K. Illner, H. Boeing, P. Ferrari, N. Slimani

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PP 402 - SELECTION OF FOODS FOR A FOOD PROPENSITY QUESTIONNAIRE TO BE USED IN THE FRENCH DIETARY SURVEY
C. Dubuisson, V. Strot, J. Volatier

1French Agency for Food, Environmental and Occupational Health Safety (ANSES), Risk Assessment Department

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A. Dufour, C. Dubuisson, J. Volatier, L. Lafay

1French Agency for food, environmental and occupational health safety (Anses), Risk assessment department, 2French National Cancer Institute

PP 404 - REGISTERS OF CALIBRATED/VALIDATED DIETARY ASSESSMENT INSTRUMENTS PUBLICATIONS
F. Thompson, J. Moler, C. Bosire, M. Coffey

1U.S. National Cancer Institute, 2Information Management Services, Inc., 3Harvard School of Public Health

PP 405 - AGREEMENT BETWEEN EATING HABITS MARKED QUESTIONS AND USUAL FOOD CONSUMPTION OF ADULTS IN THE METROPOLITAN AREA OF RIO DE JANEIRO, BRAZIL.
E. Yokoo, R. Pereira, A. Gomes

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R. A. Gomes de Souza, P. R. Melo Rodrigues, R. Alves Pereira

1Federal University of Rio de Janeiro

PP 407 - WEB-BASED PICTURE BOOK GENERATOR DEVELOPED FOR HARMONIZED PORTION SIZE ESTIMATIONS IN EUROPEAN AND NATIONAL FOOD CONSUMPTION SURVEYS AMONG CHILDREN.
T. Christensen, M. Ege, E. Trolle

1Nutrition division, National Food Institute, Technical University of Denmark
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H. Pakkala1, K. Presser2, I. Martínez de Victoria Carazo3, T. Christensen4
1Division of Welfare and Health Promotion, Department of Lifestyle and Participation, National Institute for Health and Welfare Q1 (THL), 2Department of Computer Science, ETH Zurich, 3University of Granada, 4Nutrition division, National Food Agency, Technical University of Denmark

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N. Farooqi1, F. Slinde2, L. Häglin1, T. Sandström1
1Respiratory Medicine and Allergy Umeå University Hospital , 2Clinical Nutrition University of Gothenburg

PP 410 - HARMONIZATION OF PHYSICAL ACTIVITY IN MULTI-CENTRE EPIDEMIOLOGICAL STUDIES. THE EXPERIENCE OF THE CHANCES PROJECT*
C. Bamia1, P. Orfanos1, E. Valanou1, V. Benetou1, A. Trichopoulou1
1Hygiene, Epidemiology and Medical Statistics, School of Medicine, National and Kapodistrian University of Athens, and, Hellenic Health Foundation

PP 411 - HARMONISING DIETARY DATA FOR RISK ASSESSMENT AND DIETARY MONITORING – “WHAT’S ON THE MENU IN EUROPE” (EFSA/EU MENU)
L. Valsta1, D. Arcella1, C. Merten1, S. Fabiansson1
1European Food Safety Authority

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E. Scaravelli1, R. Charrondiere2, P. Verger3, L. Kambeck4, S. Fabiansson1, S. EFSA/WG on TD1
1European Food Safety Authority (EFSA), 2Food and Agriculture Organization of the United Nations (FAO), 3World Health Organization (WHO), 4National Institute for Health Development

FOOD BIODIVERSITY ASSESSMENTS

PP 413 - RED MEAT INTAKE, NUTRITION AND RISK EXPOSURE OF VULNERABLE GROUPS WITHIN A DEVELOPING COUNTRY
HC Schönfeldt, N Hall, SS Duvenage
University of Pretoria, Pretoria, South Africa

PP 414 - THE INTERNATIONAL FITNESS SCALE (IFIS): VALIDITY, RELIABILITY AND RELATIONSHIP WITH CARDIOVASCULAR RISK IN YOUTH
Francisco B Ortega1,2,3, Jonatan R Ruiz1,3, Vanesa España-Romera1,4, Germán Vicente-Rodriguez5a,b, David Martínez-Gómez 6, Yannis Manios7, Laurent Beghin8, Dénes Molnar9, Kurt Widhalm10, Luis A Moreno 5a,c, Michael Sjöström 1, Manuel J Castillo2, on behalf of the HELENA study group *
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PP 415 - VALIDITY OF RESTING ENERGY EXPENDITURE PREDICTIVE EQUATIONS BEFORE AND AFTER AN ENERGY-RESTRICTED DIET INTERVENTION IN OBESE WOMEN
Jonatan R Ruiz1,2, Francisco B Ortega1,2,3, Gerardo Rodríguez4, Pilar Alkorta5, Idoia Labayen2,6
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5Department of Nuclear Medicine, Hospital of Santiago Apóstol, 01004 Vitoria, Spain.
6Department of Nutrition and Food Science, University of the Basque Country, 01006 Vitoria, Spain.

PP 416 - DETERMINATION OF FOOD DENSITY USING X-RAY IMAGING
Shivangi Kelkar1, Martin Okos1, Carol J Boushey2,3
1Department of Agricultural & Biological Engineering, West Lafayette, Indiana
2Department of Nutrition Science, Purdue University, West Lafayette, Indiana
3Epidemiology Program, University of Hawai‘i Cancer Center, Honolulu, Hawai‘i
GENERAL INFORMATION

Conference venue
FAO - Food and Agriculture Organization
Viale delle Terme di Caracalla, 00153 Rome

Access to conference venue
The registration desk will be open from 08.00 to 16.00. Only registered participants will be issued special badges, which will permit them to enter the Conference meeting halls. On the first day of each meeting, participants are requested to use the Viale Aventino entrance to FAO near the metro. Participants will be invited by Security personnel to proceed through a scanning machine in the Visitors Centre at the top of a short flight of steps, before being directed to the Turkish Registration lounge in Building A to collect the badge. Inside the Turkish Registration Lounge participants should collect their badge. A valid identity document will need to be presented to registration officials to collect the Building Pass. Lost Building Passes should be reported without delay to the FAO Security Office. There are six buildings in FAO Headquarters, all interconnected. The Red Room is in Building A. Pass-holding visitors may use the Building A Main Entrance (Viale Aventino, Metro exit) to enter the site. No other entry/exit points in other parts of the buildings can be used. They may return through the scanning machines in the Visitors Centre.

Special access
FAO Headquarters are accessible to disabled persons with wheelchairs. A lift is provided in Building A. Restroom facilities for disabled visitors are located in Building A on the ground, first and third floors near the meeting rooms.

Secretariat desk
Secretariat desk time schedule:
May 14th hr. 08.30 - 18.00
May 15th hr. 08.30 - 18.00
May 16th hr. 08.30 - 18.00
May 17th hr. 08.30 - 18.00

Badges
Named badges are used as passes. All participants are kindly requested to wear their badges during all congress activities. Admission to the scientific sessions and catering is restricted to registered participants wearing their badges.
**Languages**
The official language is English.

**Lunches and coffee breaks**
Lunch and coffee breaks time schedule:

- **May 14th**
  - Coffee break: hr. 08.30 - 10.30 / hr. 16.00 - 16.30
  - Lunch: hr. 12.00 - 14.30

- **May 15th**
  - Coffee break: hr. 10.30 - 11.00 / hr. 16.00 - 16.30
  - Lunch: hr. 12.30 - 14.30

- **May 16th**
  - Coffee break: hr. 10.30 - 11.00 / hr. 16.00 - 16.30
  - Lunch: hr. 12.30 - 14.30

**Social events**

**Welcome Cocktail (May 14th)**
The Welcome Cocktail will take place at the cafeteria and terrace.
All congress participants are invited.

**Social Dinner (May 15th)**
The Social Dinner will take place at the restaurant “Meo Patacca” (Piazza dei Mercanti, 30).
The ticket must be handed on to the staff at the entrance.

**Guidelines for poster display**
All posters have been given a number and should be attached to the panel with the same number. Please be present at your poster to discuss your research and answer questions at time indicated in the programme. Your poster should be set-up on the appropriate panel in the FAO Atrium between 09.00-11.00 in the morning on the day that has been assigned to you. The poster will remain on display during the sessions and lunch. However, it must be dismantled between 16.00 and 18.00 the same day. Posters not dismantled by 18.00 will be discarded and cannot be kept or forwarded to the owner. The organizers cannot be held responsible for any posters left after this time.
Poster size: 70 cm wide x 100 cm high.
At the top of the poster leave space for the title and authors as stated on the submitted abstract. The text, illustrations, etc should be bold enough to be read from a distance of two meters (six feet). Tacks and technical equipment will be available for the mounting of posters.
There will be an assistant to help you locate your panel.
Welcome to the city
Rome is an epic and vibrant metropolis harbouring lost empires. The “eternal city” is so called because it is a place of great beauty, contrast and life. As modern and old, past and present go side by side, Rome is a fascinating and unique place. Rome offers an eclectic environment; it is not only the world centre of the Catholic Church, the home of the fabulous ruins of the Roman Empire but also a modern and bustling city, capital of Italy since 1870. When in Rome, one steps into the world’s biggest open air museum!

Climate
Rome enjoys a typically Mediterranean climate. May is warm and dry with temperatures 20-25°C.

Business hours
In general, most offices will operate between the hours of 09.00 and 16.30, Monday to Friday, although business hours do vary from one industry to another. Most Rome banks open from 08.30 to 13.30 and 14.45 to 15.45 Monday to Friday. Shops are open on Monday from 15.30 to 19.30 (some shops may be open in the morning) and Tuesday to Saturday from 09.30 / 10.00 to 13.00 and 15.30 to 19.00 / 19.30 (some shops do not close for the afternoon break).

ATMs
ATMs (known in Italy as bancomat) are widely available in Rome and most will accept cards tied into the Visa, MasterCard, Cirrus and Maestro systems. As a precaution, though, check that the appropriate logo is displayed on the ATM before inserting your card. Remember that every time you withdraw cash there will be a transaction surcharge. Check with your own bank to see how much this is.

Changing money
You can change your money in banks, at post offices or at a cambio (exchange office). There are exchange booths at Stazione Termini and at Fiumicino and Ciampino airports. Post offices and banks tend to offer the best rates. The currency in Italy is the Euro (€).

Credit cards
Virtually all midrange and top-end hotels accept credit cards, as do most restaurants and large shops. You can also use them to obtain cash advances at some banks. Major cards such as Visa, MasterCard, Eurocard, Cirrus and Eurocheques are widely accepted. Amex is also recognized although it’s less common than Visa or MasterCard.

Electricity
The voltage in Rome Italy is 220V (50Hz). The plug outlets require unique three-pin Italian plugs (three round pins in a row). Many hotels are equipped with the two-pin continental European type plug outlets.

Liability and insurance
The congress organisers will not accept liability for personal injury or loss/damage to property/belongings of participants or accompanying persons, either before, during or following the congress, tours or their stay in Rome. It is therefore recommended that participants arrange their own personal health, accident and travel insurance.

Time difference
Rome is in the Central European Time Zone (Greenwich Mean Time+1 hour/U.S. Eastern Standard Time + 6 hours).
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