INTERNATIONAL LIFE SCIENCES INSTITUTE - European Branch

ILSI Europe

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ILSI Europe Task Forces

Assessment of Benefits and Risks
Addition of Nutrients to Food
Emerging Technologies for Efficacy Demonstration
Food Intake Methodology
Functional Foods
Novel Foods and Nanotechnology
Risk Analysis in Food Microbiology
Risk Assessment of Chemicals in Food
Risk Assessment of Genotoxic Carcinogens
Threshold of Toxicological Concern

Societal Aspects
Consumer Science

Food Chain
Emerging Microbiological Issues
Environment and Health
Packaging Materials
Process-related Compounds and Natural Toxins

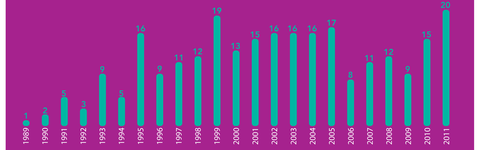
Diet, Health and Disease
Dietary Carbohydrates
Eating Behaviour and Energy Balance
Food Allergy
Metabolic Imprinting
Metabolic Syndrome and Diabetes
Nutrient Requirements
Nutrition and Immunity
Nutrition and Mental Performance
Prebiotics
Probiotics
Weight Management in Public Health

ILSI Europe Members

In 2011, ILSI Europe was supported by 64 member companies.
The list of ILSI Europe Members can be found at:
http://www.ilsi.org/Europe/Pages/currentmembers.aspx

Publications

In 2011, ILSI Europe reached its absolute record with 20 publications:



Articles in peer-reviewed journals

- Calder, P. *et al.* Dietary Factors and Low Grade Inflammation in Relation to Overweight and Obesity. *British Journal of Nutrition* 2011;106(Suppl.3):S1-S78
- Doak, C.M. *et al.* Age Standardization in Mapping Adult Overweight and Obesity Trends in the WHO European Region. *Obesity Reviews* 2011; DOI: 10.1111/j.1467-789X.2011.00943.x
- Frewer, L. *et al.* Consumer Response to Novel Agri-Food Technologies: Implications for Predicting Consumer Acceptance of Emerging Food Technologies. *Trends in Food Science and Technologies* 2011; 22(8):442-456
- Gallagher, A. *et al.* A Standardised Approach Towards Proving the Efficacy of Foods and Food Constituents for Health Claims (PROCLAIM): Providing Guidance. *British Journal of Nutrition* 2011;106(Suppl.2):S16-S28
- Hollman, P. *et al.* The Biological Relevance of Direct Antioxidant Effects of Polyphenols for Cardiovascular Health in Humans Is Not Established. *Journal of Nutrition* 2011;141:989S-1009S
- Koster, S. *et al.* Application of the TTC Concept to Unknown Substances Found in Analysis of Foods. *Food and Chemical Toxicology* 2011; 49:1643-1660
- McNamara, C. *et al.* Uncertainty Analysis of the Use of a Retailer Fidelity Card Scheme in the Assessment of Food Additive Intake. *Food Additives and Contaminants* 2011;28(12):1636-1644
- Poston, L., Harthoorn, L., and van der Beek, E.M. Obesity in Pregnancy: Implications for the Mother and Lifelong Health of the Child. *Pediatric Research* 2011; 69(2):175-180
- Van Bilsen, J.H.M. *et al.* Evaluation of Scientific Criteria for Identifying Allergenic Foods of Public Health Importance. *Regulatory Toxicology and Pharmacology* 2011;60:281-289
- Welch, R. *et al.* Guidelines for the Design, Conduct and Reporting of Human Intervention Studies to Evaluate the Health Benefits of Foods. *British Journal of Nutrition* 2011;106(Suppl.2):S3-S15

ILSI Europe Report Series

- Baylis, C. and Uyttendaele, M. The Enterobacteriaceae and their Significance to the Food Industry
- Beuchat, L. *et al.* Persistence and Survival of Pathogens in Dry Foods and Dry Food Processing Environments
- Chan, C-H. *et al.* Frontiers in Food Allergen Risk Assessment
- Crossley, S. and Motarjemi Y. Food Safety Management Tools – Second Edition
- Dixon, J. Packaging Materials 9. Multilayer Packaging for Food and Beverages
- Ludwig, F. *et al.* Water Use for Oil Crops: Current Water Use and Future Outlooks
- Sutter, J., Dudler, V. and Meuwly, R. Packaging Materials 8. Printing Inks for Food Packaging – Composition and Properties of Printing Inks
- Turley, D. *et al.* Evaluation of the Risks Posed in Europe by Unintended Mixing of Food Crops Developed for Food Use and Food Crops Developed for Non-Food Uses

ILSI Europe Concise Monograph Series

- Gredel, S. Nutrition and Immunity in Man – Second Edition
- Sadler, M. Food, Glycaemic Response and Health

Meetings

Workshops

In 2011, ILSI Europe organised the following workshops:

- **Practical Guidance for the Safety Assessment of Nanomaterials in Food**
  13-15 April, Cascais, Portugal
  Organised by the Novel Foods and Nanotechnology Task Force
- **MRA – Application of Omics Technology**
  17 May 2011, Ede, The Netherlands
  Organised by the Risk Analysis in Food Microbiology Task Force
- **TTC: Scientific Challenges and Approaches**
  8-10 June 2011, Brussels, Belgium
  Organised by the Threshold of Toxicological Concern Task Force
- **Maternal Obesity, Diet, and Developmental Programming – Aligning Mother-Child Studies**
  10-11 October 2011, Brussels, Belgium
  Organised by the Metabolic Imprinting Task Force
- **MCPD – and Glycidyl Esters in Food Products**
  9-10 November 2011, Brussels, Belgium
  Jointly organised by the Process-related Compounds & Natural Toxins and the Risk Assessment of Chemicals in Food Task Forces
- **GUIDEA – Guidance for Dietary intake Exposure Assessment**
  29-30 November 2011, Geneva, Switzerland
  Organised by the Food Intake Methodology Task Force

Symposia

- **Science for Health – Beyond the Silver Anniversary**
  ILSI Europe Annual Symposium 2011
  24-25 March 2011, Brussels, Belgium
- **International Symposium on 'Health Benefits of Foods – From Emerging Science to Innovative Products'**
  5-7 October 2011, Prague, Czech Republic
  Organised by the Functional Foods Task Force
  This symposium, the third in the series of ILSI Europe Functional Foods symposia was attended by nearly 200 scientists from various countries worldwide. They reviewed and debated recent advances in substantiation of health benefits of foods, covering establishment but also the communication of innovative nutrition science.
  Supported by a media programme, the event was covered by specialised and national press in various European countries.
  A synopsis summarising the main outcome of the symposium was published shortly after the event and has been widely disseminated.

Other meetings

- **Kick-off meeting on 'Assessing The Safety of Water Used in the Production of Fresh and Minimally Processed Produce'**
  29-30 March 2011, Brussels, Belgium
  Organised by the Emerging Microbiological Issues Task Force
- **ILSI Europe Pre-Congress Session on 'Obesity and Weight Management - Addressing Obesity and Related Health Impacts 'at the 18th European Congress on Obesity**
  25 May 2011, Istanbul, Turkey
- **EURRECA/ENA Scientific Workshop on 'Critical Micronutrients in Pregnancy, Lactation and Infancy'**
  14-16 June 2011 Tutzing, Germany
- **EURRECA 5th Integrating meeting**
  20-23 June 2011, Budapest, Hungary
- **ILSI Europe Session at Eurotox 2011**
  30 August 2011, Paris, France
  ILSI Europe presented its toxicology programme: current work on the risk assessment of genotoxic carcinogens and TTC
- **EURRECA session on 'EURRECA: Variations in European Micronutrient Recommendations?' at the International Society of Trace Element Research in Humans**
  16-21 October 2011, Antalya, Turkey
- **ILSI Europe session at the 11th European Nutrition Conference (FENS) 2011**
  27 October 2011, Madrid, Spain
  The session addressed scientific considerations of the benefits of satiety to consumers before looking at the determinants of obesity and the metabolic syndrome, topics of work realised by ILSI Europe. It also covered a benefit risk analysis of macronutrients replacement.
- **EURRECA session on 'Reference intake in Europe – European Recommendations Aligned, how do we (EURRECA) realise this?' at the 11th European Nutrition Conference (FENS) 2011**
  28 October 2011, Madrid, Spain

Marker Initiative in Nutrition Research

New activity involving 9 ILSI Europe task forces. The activity started in 2011 and aims to finish in 2013.

The aims of the project are:
- To identify consensus criteria for selecting the adequate markers in nutrition research
- To identify consensus markers to use in different fields of nutrition research

By creating a list of common criteria, guidelines will be offered to the nutrition research field for a better selection of the appropriate markers that are currently used, and also provide recommendations for the development of future markers for the nutrition field. Then, by presenting a list of markers fulfilling these criteria, it will be possible to gather comparable data in future studies. This will facilitate the compiling and reusing of data and knowledge for ensuring the supremacy of a science based nutrition.

STEP 1 – 2011

Approach A
Review of existing validation criteria
Done by a selected EG through a literature search covering all fields of nutrition research

Approach B
Identification of validation criteria for markers based on broadly used markers in the various fields of nutrition

- Probiotics
- Dietary Carbohydrates
- Nutrient Requirements
- Eating behaviour and Energy Balance
- Functional Foods
- Nutrition and Mental Performance
- Metabolic Imprinting
- Nutrition and Immunity
- Addition of Nutrients to Food

STEP 2 – 2012

Achieving consensus on validation criteria
by discussing the results of step 1 in a workshop in June 2012

STEP 3 – 2012/2013

Application of criteria
Application of consensus criteria on broadly used markers in the various fields of nutrition research

Targeted outcomes:
- List of consensus criteria
- List of commonly used and validated markers

Focus on EC projects

European Micronutrient Recommendations Aligned – Eurreca

eurreca
A Network of Excellence for Micronutrient Recommendations Aligned

The Eurreca Network of Excellence will end up in June 2012. Since its start in 2007, the EURRECA project has delivered databases, best practices and systematic reviews of literature, case studies and methods. These outputs have been disseminated via different channels, such as scientific articles (about 110) and presentations at key events and exhibitions (about 65 in 2010). Over the years, EURRECA has built strong collaborations with stakeholders and scientists in the field (e.g. EFSA, WHO, NIH, UNICEF, NuGO, EuroFIR). Within the ILSI family, ILSI Southeast Asia Region and the ILSI branches based in South America take advantage of EURRECA to adopt a similar approach in their countries.

COSMOS
Started in January 2011, the project addresses the assessment needs in the area of cosmetics by delivering an integrated suite of computational tools to predict the effects of long-term exposure to cosmetic ingredients in humans, thus reducing the need for repeated dose toxicity testing in animals.
The tools will include thresholds of toxicological concern (TTC). ILSI Europe is involved as a partner, providing two expert groups to (1) apply TTC to cosmetics, and (2) address oral-to-dermal exposure extrapolation.

COSMOS

2 new projects in 2012
In 2012, ILSI Europe will be involved as partner in two new projects funded by the European Commission:

NutriTech applies a novel combination of technologies to assess most comprehensively human phenotypic flexibility as a marker for health and disease states in the context of nutrition and life style.
ILSI Europe is involved as work package leader for harmonisation, dissemination and stakeholder interaction.

TDS_Exposure concerns Total Diet Studies (TDS) that aim to provide representative and realistic data on food contamination and exposure levels of relevant populations and harmonise these across Europe and worldwide.
ILSI Europe is partner in the work package dissemination and stakeholder and will lead two tasks: to communicate to key stakeholders the aims, methodology and expected results of the project; and to disseminate project results to stakeholders, the scientific community and the general public.

GUIDEA
Guidance for Dietary Intake Exposure Assessment

GUIDEA

Initiated in 2009 by the Food Intake Methodology Task Force, this activity involves 8 other ILSI Europe task forces. It is working towards producing guidance for planning, conducting, reporting and interpretation of intake/exposure assessments.

The outcome of the project will be a web-based application complemented with a scientific article published in a peer-reviewed journal. It is also envisaged to use the online application as a basis for future training courses.

Work Stream 1: Published Guidance

Work Stream 2: Expert Knowledge/Parallel Initiatives

Work Stream 3: Provide examples on current practices

Consolidate: Identify strengths and weaknesses in 'types' of assessment

Generate description of best practice for different 'types'

Development of GUIDEA wiki site

Phase II: Development of GUIDEA wiki site into training tools for the future

January 2012