ILSI’s Food Safety and Risk Assessment Activities Through Tripartite Partnerships

Submitted by: International Life Sciences Institute (ILSI)
ILSI's Food Safety and Risk Assessment Activities Through Tripartite Partnerships

Hot Issues in Risk Analysis, August 2, 2009

APEC Food Safety Cooperation Forum 2009

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ILSI SEA Region

ILSI® is an international foundation that advances the understanding of scientific issues impacting human health

• Food Safety
• Risk Assessment
• Nutrition
• Environment
Established 1978……

ILSI® provides neutral and strategic platform for stakeholders’ dialogues, scientific updates, and consensus forge through tripartite collaborations

ILSI …..A Global Network

- ILSI Focal Point in China
- ILSI Japan
- ILSI Korea
- ILSI Mexico
- ILSI North Andean
- ILSI South Andean
- ILSI North America
- ILSI Southeast Asia Region

- ILSI Argentina
- ILSI Brasil
- ILSI Europe
- ILSI India
- ILSI North Africa and Gulf Region
- ILSI South Africa

- ILSI Health & Environmental Health Institute (HESI)
- Research Foundation
ILSI® …A Global Network

ILSI SEA Region
ASEAN + Australasia

ILSI® Addresses Key Global Issues…
For examples
• Obesity
• Functional Foods
• Risk Assessment
• Biotechnology
ILSI® Risk Assessment Program

• Develops and shares advanced risk assessment knowledge through global network of experts and collaborators
• Enhances research capability
• Provides scientific resources to international agencies
• Harmonization of approaches and data development
• Addresses global issues, regional needs and local relevance

ILSI Risk Assessment Activities

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<tr>
<td>1978-</td>
<td>Assessing Safety of Food Additives</td>
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<td>1986-</td>
<td>Characterizing Dose-Response Relationships</td>
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<td>1989-</td>
<td>Assessing Human Relevance/ Mode of Action Concept</td>
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<td>1989-</td>
<td>Detecting and Evaluating Pathogens</td>
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<td>1990-</td>
<td>Assessing Safety of Foods Produced through Biotechnology</td>
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<td>1990-</td>
<td>Assessing Risk in Children</td>
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<td>1992-</td>
<td>Assessing Allergenicity</td>
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<td>1999-2003-</td>
<td>Developing Tools for Cumulative and Aggregate Risk Assessment</td>
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<td>1999-2003-</td>
<td>Alternatives to Carcinogenicity Testing</td>
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ILSI Global Risk Assessment Activities

- Risk Assessment
- Xenobiotic Substances
  - Chemicals
  - Pathogens
- Food/Food Constituents
- New Technologies
- Methodology
  - Mode of Action
  - Weight of Evidence
  - Mixtures
- Training
  - Tools
  - SAR
  - Genomics

Contribution... Science of Risk Assessment

- Outlining principles for characterization of dose-effect relationships
- Establishing thresholds concept and principle
- Improving data on risk/benefit of food components
- Better applying mode-of-action to risk assessment
- Providing food safety and risk assessment training relevant to local health and safety concerns
ILSI® Food Safety and Risk Assessment Activities
Asia Pacific 2005-2008

Over 30 Seminars/ Training Workshops
- Food Microbiology – 8
- Food Chemical/ Control Systems – 7
- Biotechnology – 10
- Mycotoxins – 3
- Packaging / Contact Material - 2
- Protein Allergenecity – 3

Risk Assessment: Food Microbiology

- Workshops on Microbial Risk Assessment, 31 March 2005, Seoul; 26 March 2005; 26 October 2006, Korea
- Symposium Series on Food Microbiology (in conjunction with IAFP) 13-16 August 2006, Calgary, Canada
- Symposium on Microbiological Contamination of Food 7 December 2006, Tokyo, Japan
- Symposium Series on Food Microbiology (in conjunction with IAFP) 8-11 July 2007; 3-6 August 2008, USA
- Symposium and Workshop on Current and Innovative Approaches to Microbiological Food Safety Management (in conjunction with ICMSF) 3-4 October 2007, Singapore
Risk Assessment: **Food Chemical/Control Systems**

- International Symposium on National Food Safety Control System in Korea: Present Status and Future Prospects, 26 May 2006, Korea
- International Forum on Laboratory Technology and Standardization for Hygiene, 26-28 September 2006, China
- ASEAN Risk Analysis and Food Safety Standards Harmonization Workshop 8-9, February 2007, Vietnam
- Public Health Impacts of Substances Detected at Low Levels in Food: A Workable Approach for Risk Management Decisions, 4-6 June 2007, USA
- 7th Regional Workshop on Risk Assessment and Harmonization of Food safety Standard in ASEAN, 15-16 May 2008, Malaysia
- Regional Workshop on Risk Analysis/Risk-based Inspection and Risk Communication for 5 Andean (In Conjunction with FAO), 24-26 June 2009, Lima, Peru

Risk Assessment: **Mycotoxins/ Packaging**

- Symposium on Reducing Mycotoxins in Food – Updates and New Approaches (in conjunction with 9th ASEAN Food Conference) 10 August 2005, Indonesia
- Risk Assessment of Toxins from Molds 4 September 2006, Japan
- Managing Aflatoxin – From Farm to Table June 25, 2008, Indonesia
- Food Packaging - Migration Modeling Workshop 25-26 October 2006, USA
Risk Assessment: Chemical and Allergens

- 5th ASEAN Risk Assessment and Food Safety Standards Harmonization Workshop – Flavors and Contaminants
  26-27 September, 2006 Bangkok Thailand
- Workshop on Food Allergens
  9 November 2006, Melbourne, Australia
- Workshop on Novel Protein Safety Evaluation
  26-27 February 2008, Manila, Philippines
- Workshop on Chemical And Microbial Risk Assessment Case Studies
  7 November, 2008, Philippines
- Seminar on Novel Protein Allergencity Workshop
  7, November 2008, Thailand

ILSI® Safety Assessment: Biotechnology

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<tr>
<th>DEFINING SAFETY AND EFFICACY EVALUATION</th>
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<tr>
<td>• Seminal work on “substantial equivalence”</td>
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<td>• First and currently applied decision-tree approach for allergenicity assessment</td>
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<td>• First composition reference database of key agricultural crops, with ongoing enhancements to functionality and content</td>
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<td>• Best practices for appropriate conduct of animal studies for performance evaluation</td>
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<tr>
<td>• Scientific framework and recommendations for nutritional and safety assessments of food derived from nutritionally-enhanced crops</td>
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<tr>
<td>• Case studies of nutritionally-enhanced crop safety assessment</td>
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<tr>
<td>• Best practices for appropriate conduct of animal studies for performance evaluation of nutritionally-enhanced crops</td>
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Risk Assessment: Biotechnology

Sampling Detection
- Regional Symposium and Training Workshop on Sampling and Detection Methods for Genetically Modified Seeds, Grains and Food
  27-28 March 2008, Singapore
- International Workshop on Detection and Sampling Methods in GMOs
  5-6 August 2008, Chile
- Sampling and Detection Methods Workshop
  19-23 October 2009, Shanghai and Beijing, China

Safety of Biotech Nutritionally Enhanced Foods
- Workshop on Nutritional and Safety Assessments of Foods and Feeds Nutritionally Improved through Biotechnology
  27 May 2005, Korea
- Biotechnology and Nutritionally Enhanced Food and Feed
  2-3, November 2008, Cebu, Philippines
  Safety Assessment of Nutritionally-enhanced Products
  12 June 2009, Mexico

How Can ILSI® Contribute to FSCF – PTIN?
- As potential Partner to facilitate capacity building in identified priority areas
- As Catalyst in interpreting and identifying gaps in research
- Strengthen and extend existing institutions network
- Build on regional and local activities that promote science-based decision making
Thank You!

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