



ILSI News

International Life
Sciences Institute

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Questions? Feedback?

We'd love to hear from you. Contact ILSI Communications Director Michael Shirreffs at: mshirreffs@ilsi.org

The Value of Annual Meeting Is in the Chance to Connect

Survey Says... Best Value of Annual Meeting is Collaboration

Each year, ILSI conducts a survey asking attendees their impressions of Annual Meeting and, each year, the results show “ability to network with public and industry scientists from around the globe” as a primary value of the meeting: 79% in 2013. ILSI's focus on multi-sector collaboration and its organizational structure – 16 branches operating at the global, regional, and national level – makes it possible to bring together leading experts to explore and debate questions of health and science of common interest or concern.

At the 2013 ILSI Annual Meeting in Miami, USA, 300 participants from 27 countries met to share perspectives on issues ranging from food allergies to health consequences of physical inactivity to the state of the science of biomarkers to help substantiate health claims.

Video – New in 2013

ILSI Annual Meeting gives attendees a great opportunity for face-to-face interaction. We know, however, not everyone who would like to is able to join us. And while we can't recreate the rich environment for interpersonal exchange of ideas online, we can extend the reach of the science with technology.

ILSI is building an online video library, which will house videos of scientific presentations from annual meetings and other ILSI-sponsored scientific events. ILSI won't record all presentations at every meeting and video will never replace an in-person experience. But video does give people who could not attend a meeting or who were unable to be at a particular session the chance to see and hear what was presented.

Video is another way ILSI can meet its mission to provide science that helps improve environmental and human health.

Videos and PDF copies of presentations from the scientific program are available online:

[2013 ILSI Annual Meeting](#)

An Open Letter from Juan Carlos López Musi

Juan Carlos López Musi, President of ILSI Argentina, shares how ILSI can build on one of its primary strengths.

“To the ILSI Community,

I am very happy to be here today at the “Interactive Session on Building Stronger Scientific Programs,” convened at the 2013 ILSI Annual Meeting. I appreciate the opportunity to contribute to this meeting with my personal experience, after over 30 years with ILSI and over 50 years as a PhD in Chemistry dedicated to Food Science.

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Next Year in Bermuda

2014 ILSI Annual Meeting
17 - 22 January
The Fairmont Southampton
Southampton, Bermuda

Watch for program details at:

[2014 ILSI Annual Meeting](#)

Welcome ILSI Taiwan!

For over 20 years, academic and industry scientists in Taiwan have been interacting with ILSI and its extensive network of experts. These connections took place at local conferences and at internationally acclaimed meetings. The Chinese language translation of *Nutrition Reviews* was well-known and highly regarded.

ILSI's commitment to academia, government, and industry working together to improve health resonated with thought-leaders in Taiwan. It was this tripartite approach that galvanized a group of scientists to bring the model to Taiwan. Representatives attended ILSI annual meetings and ILSI branches in Asia provided advice and helped further demonstrate ILSI's role within the scientific community.

In 2012, a delegation from Taiwan attended the ILSI Annual Meeting with the express purpose of determining the feasibility of establishing a branch. A

series of meetings were subsequently held at which the vision and mission of an ILSI Taiwan was outlined. By the end of the year, 16 local and international companies and a group of dedicated public scientists had committed to establishing the new branch.

The Taiwan delegation submitted a formal petition for branch status. At the 2013 ILSI Annual Meeting, ILSI Board of Trustees unanimously approved ILSI Taiwan's charter. It was the first time since 1997 since a new branch has been added to the ILSI organization.

Please join us in welcoming ILSI Taiwan to the ILSI network.

Contact Jenny Yueh-Ing Chang, ILSI Taiwan Executive Director, about how your organization can support ILSI Taiwan's programs: jenny@tyig.com.tw



ILSI

International Life Sciences Institute

Taiwan

New Leadership: Vision and Energy

Three new branch executive directors have joined ILSI in 2013; each contributing fresh perspective and innovation.

Jenny Yueh-Ing Chang is the dynamic woman behind the launch of ILSI Taiwan; the first new branch to join the ILSI network since 1997. Jenny is currently building an infrastructure for the new branch, which includes working to get the new institution recognized by the Taiwanese authorities.

Cecilia García Schinkel is ILSI Mexico's new executive director. She has over 20 years of expertise in food science and nutrition and a passionate interest in science communications. Ms García believes in particular a more proactive approach to communications will help make important science available to a wider audience. This includes promoting ILSI's work as well as useful information provided by other science organizations and government agencies. Her goal is to transform ILSI Mexico into a leading scientific partner in Mexico; one that is recognized for its ability to bring together diverse scientists to work together to improve the health of the Mexican people.

Prof Lucia Anelich is the new Executive and Scientific Director of ILSI South Africa. Although Prof Anelich took this position in January, she has a long history with the organization; she previously served as a public trustee on the ILSI South Africa Board of Trustees. She has extensive experience in microbiology and food safety and brings excellent leadership skills to the branch. Her goal is to expand ILSI South Africa's relevance beyond the country of South Africa so that it becomes a scientific and health organization that serves all of sub-Saharan Africa.

Join us in welcoming these new ILSI leaders:

Jenny Chang: jenny@tyig.com.tw

Cecilia García: cecilia.garcia@ils-mexico.org

Lucia Anelich: la@anelichconsulting.co.za

ILSI Research Foundation Confronts Nutrition Security

The world faces an escalating challenge to produce sufficient staple food crops in the face of multiple constraints: climate change; resource scarcity; and ecosystem preservation. Although agricultural production has increased significantly, it is not keeping pace with demand. This is especially true of important staples, such as cassava and rice, where gains in yield have been comparatively lower than for commodities like maize and soy bean.

The emerging science of integrated modeling is being used to assess how crops and food security are being threatened. However, the underlying models used in these assessments are often based on questionable assumptions and very limited or outdated information.

It is against this backdrop that the ILSI Research Foundation has formed a new Center of Excellence: the Center for Integrated Modeling of Sustainable Agriculture and Nutrition Security (CIMSANS). CIMSANS's immediate

goal is to foster broad public-private collaboration on improving integrated modeling of agricultural production systems and nutrition security. In so doing, CIMSANS will fill a sizable unmet need, completely distinct from other multi-collaborator sustainability initiatives. The assessments produced by CIMSANS will ultimately make it possible for the world community to make better decisions about how to ensure nutrition security in truly sustainable ways.

As a first step in its work, CIMSANS hosted a Round-Table in October 2012 at the Food and Agriculture Organization (FAO) in Rome: "Opportunities for New Public-Private Collaborations on the Science of Integrated Modeling." A second Round-Table took place on 10 April 2013: "Opportunities for New Public-Private Collaborations on Modeling of Sustainable Nutrition Security." This roundtable was held in Dublin, Ireland as part of a series of food and nutrition security events.

CIMSANS is currently led by Dave Gustafson. His academic training was at Stanford University and the University of Washington in Seattle, where he earned his BS and PhD in chemical engineering. The initial focus of his work was the development of new computer models for predicting the environmental behavior of crop chemicals, especially their potential impacts on water quality.

In subsequent years, Dave developed new modeling approaches to pollen-mediated gene flow and the population genetics of insect and weed resistance. He now serves on various national and international teams looking at these issues, including the Executive Secretariat of the US Government's National Climate Assessment Development & Advisory Committee.

Visit CIMSANS' webpage for more information: [CIMSANS](#)

CIMSANS works to improve integrated modeling will help the world community make better decisions about how to ensure nutrition security in truly sustainable ways.



New Publications

ILSI Europe

A Consideration of Biomarkers to be Used for Evaluation of Inflammation in Human Nutritional Studies

PC Calder, et al. *British Journal of Nutrition* 2013; 109 (Suppl. 1): 1-34

To monitor inflammation in a meaningful way, the markers used must be valid: they must reflect the inflammatory process under study and they must be predictive of future health status. The aim of this article is to identify robust and predictive markers, or patterns or clusters of markers, which can be used to assess inflammation in human nutrition studies in the general population.

This article is available to subscribers or for purchase from the journal: [Biomarkers](#)

Early Life Nutritional Programming of Obesity: Mother-Child Cohort Studies

M Symonds, et al. *Annals of Nutrition and Metabolism* 2013; 62:137-145

An ILSI Europe workshop reviewed the key contributors leading to adverse outcomes in pregnancy and childhood, including gestational weight gain and nutrition.

To order free copies, contact: publications@ilsieurope.be

Safety Implications of the Presence of Nucleic Acids of Inactivated Microorganisms in Foods

L Cocolin et al. *ILSI Europe Report Series* 2013:1-33

The purpose of this report is to provide guidance on the interpretation of results for the detection of nucleic acids from pathogenic microorganisms in raw materials and processed food products.

The effect of food processing, particularly thermal treatment, on bacterial and viral integrity and their nucleic acids are discussed.

This report is available online: [Nucleic Acids](#)

ILSI Research Foundation

Determining the Applicability of Threshold of Toxicological Concern Approaches to Substances Found in Foods

R Canady et al. *Critical Reviews in Food Science and Nutrition* (2013)
DOI:10.1080/10408398.2012.752341

Threshold of Toxicological Concern (TTC) decision-support methods present a pragmatic approach to using data from well-characterized chemicals and protective estimates of exposure in a step-wise fashion to inform decisions regarding low-level exposures to chemicals for which few data exist. It is based on structural and functional categorizations of chemicals derived from decades of animal testing with a wide variety of chemicals.

Expertise is required to use the TTC methods, and there are situations in which its use is clearly inappropriate or not currently supported. To facilitate proper use of the TTC, this paper describes issues to be considered by risk managers when faced with the situation of an unexpected substance in food. Case studies are provided to illustrate the implementation of these considerations, demonstrating the steps taken in deciding whether it would be appropriate to apply the TTC approach in each case.

This article is available online from the journal at no charge: [TTC and Foods](#)

ILSI North America

International Life Science Institute North America Cronobacter (Formerly Enterobacter sakazakii) Isolate Set

RA Ivy et al. *Journal of Food Protection*, Vol. 76, No. 1, 2013, p. 40-51

This article describes a publicly available Cronobacter (formerly Enterobacter sakazakii) isolate set consisting of 25 Cronobacter sakazakii isolates, two Cronobacter malonicus isolates, and one Cronobacter mutytjensii isolate.

This article is available online at no charge: [Cronobacter](#)

Issues to Consider When Setting Intervention Targets with Limited Data for Low-Moisture Food Commodities: A Peanut Case Study

DW Schaffner et al. *Journal of Food Protection*, Number 2, February 2013, pp. 190-369, pp. 360-369(10)

Peanuts and peanut-containing products have been linked to at least seven salmonellosis outbreaks worldwide in the past two decades. In response, the ILSI North America Technical Committee on Food Microbiology collaborated with the American Peanut Council to convene a workshop to develop a framework for managing risk in low-moisture food commodities where large data sets are unavailable (using peanuts as the example). This report concludes that the judgment about sufficient data is not solely scientific, but is instead a science-informed policy decision that must weigh additional societal issues.

This article is available online at no charge: [Peanut Case Study](#)

Nutrition Reviews® en español

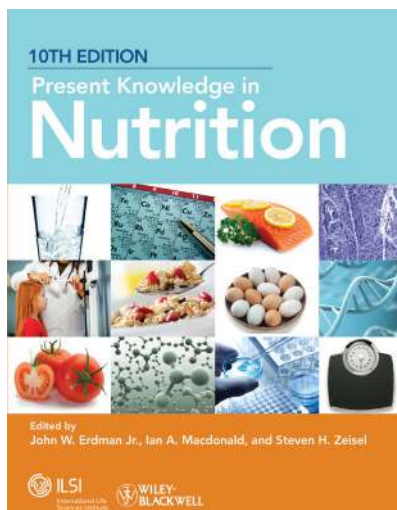
Produced by ILSI South Andean, *Nutrition Reviews en español* is a free, Spanish-language, online-only edition of select translations from ILSI's leading peer-reviewed journal *Nutrition Reviews*. Each review article is specially selected and translated to convey important advances in nutrition science to Spanish-speaking audiences. Issues are produced monthly and available exclusively from ILSI South Andean.

Available online: [Nutrition Reviews en español](#)

Realizada por ILSI Sur-Andino, *Nutrition Reviews en español* es una edición gratuita de artículos seleccionados de la publicación de ILSI *Nutrition Reviews* que solo se encuentra disponible en línea. Cada artículo es especialmente seleccionado y traducido para transmitir los importantes avances en la ciencia de la nutrición a las audiencias de habla hispana. Esta publicación es de emisión mensual y está disponible exclusivamente en la página de ILSI Sur-Andino.



A Special Offer on Present Knowledge in Nutrition



ILSI is very pleased to offer a 15% discount on *Present Knowledge in Nutrition, Tenth Edition* to all ILSI branches, members, and affiliates. Simply use the discount code ILS15 when ordering your copy directly from Wiley. You can check out the table of contents and sample pages online before you purchase.

[Present Knowledge in Nutrition, Tenth Edition](#)

Or, if you already know you want this important resource, [go directly to Wiley!](#)

Thanks to the Nestlé Foundation

ILSI donated its remaining inventory of 1,017 copies of *Present Knowledge in Nutrition, Ninth Edition* for distribution in Eritrea; which is designated as a low-income, food-deficit country by the Food and Agriculture Organization of the United Nations and challenged by regional shipping embargoes and limited access to educational materials.

The Nestlé Foundation generously covered the cost of transporting the books to this difficult-to-reach country as part of its commitment to capacity development in nutrition and nutrition research.

ILSI Board of Trustees: A Public-Private Partnership

ILSI believes leading experts public and private institutions can and should work together to identify and address health and science topics of common interest.

ILSI is governed by its Board of Trustees, which is composed of at least 50% public sector representatives and representatives from ILSI members.

This public-private balance ensures that the funds provided by our industry members are used to conduct and disseminate science that is important and useful to many stakeholders.

A full list of the Board of Trustees and of our supporting member companies is available in the 2012 Annual Report: [Annual Report](#)

At the 2013 Annual Meeting in January, ILSI elected these new trustees:

- Rhona Applebaum, PhD
The Coca-Cola Company, elected as Vice-President
- Scott Belanger, PhD
Procter & Gamble
- Gert Meijer, PhD
Unilever
- John Peters, PhD
Anschutz Health and Wellness Center
- Prof Dr Gerhard Rechkemmer
Max Rubner-Institute

ILSI also thanked these Board members for their years of volunteer service:

- Henry Chin, PhD
The Coca-Cola Company
- Mark Empie, PhD
Archer Daniels Midland
- Reg Fletcher
Kellogg Europe
- Phil Guzelian, MD
University of Colorado Health Sciences Center Denver
- Asahi Matsuyama
Kikkoman Corporation

ILSI appreciates the many public and private sector individuals who volunteer their time and expertise by serving on the Board of Trustees.

These men and women take pride in their responsibility for determining ILSI's strategic goals, setting and enforcing organizational policies, and ensuring scientific integrity and financial transparency.



2013 ILSI Board of Trustees

Jerry Hjelle, Monsanto, Is Elected ILSI President



ILSI is pleased to announce the Board of Trustees elected Jerry Hjelle, PhD, as ILSI president at the 2013 ILSI Annual Meeting. Dr. Hjelle is Vice President, Science Policy at Monsanto and is responsible for science policy to improve agricultural technology.

In his remarks at the Assembly of Members at the Annual Meeting, Dr. Hjelle commented on the strengths of the ILSI organization – global in scope and working in a tripartite nature to conduct research, identify emerging issues, and publish and discuss findings.

Noting ILSI works on some of the most important topics facing human and environmental health – food and water safety, nutrition and well-being,

improved science of risk assessment, and sustainable agriculture and nutrition security – he said the broad array of talents and perspectives in the branches and the Research Foundation from staff and colleagues in academia, government, and the private sector create new opportunities for ILSI.

Dr. Hjelle encouraged the ILSI community to “think big” our international network strategically positions ILSI to combine a local understanding of resource needs and constraints with global perspectives on science and technology.

Watch for the next issue of ILSI News to hear more from Dr. Hjelle about his vision for a healthier and more sustainable world.

Libby Tsytsikova, ILSI Research Foundation, Is Accepted to Tufts University School of Medicine



Libby Tsytsikova was first an intern with ILSI North America (2009). She became a permanent part of the ILSI Research Foundation professional team in 2011. Her words on why she is pursuing a medical degree are inspiring.

“I have wanted to be a doctor since I was a child in Russia, but gained a true passion and better understanding when volunteering with patients at the National Institutes of Health. I was inspired by the dedication of physicians, the perseverance of patients, and the power of medicine to reduce suffering. Working at ILSI has allowed me to gain a completely different perspective on the issues that influence public health

and the involved stakeholders. I have learned how to communicate within a team of experts with differing views and positions to achieve a common goal, which will be crucial as a physician working in teams to treat patients.

I aspire to work with medically underserved populations (primary care/epidemiology), and am also interested in neurology and immunology. I want to be a physician that emphasizes the doctor-patient relationship in treating and preventing disease. I want to practice medicine so that I may help reduce suffering, and be challenged academically and morally.”

Food Value Analysis Application A New Tool for Making Better Food Choices

The 2010 Dietary Guidelines for Americans and other resources for nutrition guidance raise concerns about excess intake of salt, fats, refined grains, and added sugars.

However, the marketplace offers consumers a wide variety of food choices and consumers routinely make decisions on what to purchase based on a number of factors: preference; budget constraints; time constraints; preparation skills; shelf life of the food; and food safety concerns. Consumers consider trade-offs across these factors when deciding what to buy for themselves and their families; sometimes knowingly and deliberately and sometimes subconsciously.

ILSI North America, RTI International (trade name of the Research Triangle Institute), and North Carolina State University partnered to develop a unique tool that will help people navigate the many choices they have. Their resulting Food Value Analysis application makes it possible to objectively compare a range of home-recipe foods and other forms of foods; something that could not previously be done easily or quickly.

The Food Value Analysis application is designed to be used by nutrition educators to help consumers meet dietary recommendations while considering the real and perceived barriers to consuming a healthy diet.

Foods included in the application were selected based on whether a home-recipe form of the food is available in US Department of Agriculture (USDA) databases to avoid subjective judgments about which recipe to use to calculate the values. Nutrients, food groups, and, in many cases, prices could then be obtained from existing publicly available data sources.

The developers recognize limitations to the Food Value Analysis application:

- A home-recipe version of a food must exist in the USDA databases
- The home-recipe version may not reflect a household's exact recipe
- Other possible values such as local or organic origins are not given for foods in USDA databases
- Some households might not have an adequately equipped kitchen or perceived cooking skills required to prepare all forms of a food

Even with these limitations, the developers believe the tool has significant potential. Efforts are underway to use the data to compare Healthy Eating Index values, costs, and time of example daily diets constructed mainly from foods in the application. The results of this effort will provide a broader view of the multiple trade-offs involved in making food choices.

The Food Value Analysis application is being unveiled during a scientific session at the National Nutrient Databank Conference on 19 April and will be featured at a poster session at Experimental Biology 2013 on 23 April.

For more information visit: [ILSI North America Food Value Decisions](#)

Explore the proof-of-concept site at: www.foodvalueanalysis.org

The Food Value Analysis application makes it possible to compare home-recipe foods to various processed options. It is designed to be used by nutrition educators to help consumers make healthy choices and better achieve dietary guideline goals.



Open Letter from Juan Carlos López Musi *(continued from page 1)*

It is good to see that the global ILSI family is growing, with young members that bring new value to the life sciences challenges. I don't think that there are currently other institutions with this type of organization and this is what has made the ILSI model unique.

I would like to take this great opportunity to share my humble experience with the newer generations, who can contribute to solve the issues that ILSI identifies as priorities in the different regions of the world.

I believe that in spite of the incredible developments in communications, these will remain to be an institutional challenge, in areas of common interest like food safety, nutrition, biotechnology and the environment.

One of ILSI's most valuable strengths is, in my experience, the great international network we were able to build. We should leverage this network and put it to work through more knowledge exchange and face to face interactions among branches.

This would facilitate synergies and harmonization in key technical areas like methodological approaches, analytical procedures, metrology, establishment of thresholds, risk assessment criteria, etc.

This can give us, as ILSI, an in-house implementation of harmonization initiatives that could then be shared with our partners, stakeholders and different audiences in a tripartite approach.

In summary, I honestly believe that enhancing personal interactions is the way in which ILSI could make truly impactful contributions to harmonization, one of the main global challenges to be addressed.

Although we have made progress in this direction, I'd strongly encourage each branch and the whole ILSI network, to work on a plan of visits and exchanges and take this unique opportunity to enhance ILSI's impact on people's health and well-being around the world.

Many thanks for your attention,

Dr. Juan Carlos López Musi
President, ILSI Argentina"

Calendar at-a-Glance

This is just a short listing of the many scientific events in which ILSI is participating. Visit our online calendar for more:

[ILSI Events Calendar](#)

ILSI Brasil

"Current Issues in Food Safety"

9 May 2013

São Paulo, Brazil

[Program details](#) (in Portuguese)

ILSI HESI Annual Meeting 2013

11 - 13 June 2013

Alexandria, VA, USA

[Information and registration](#)

ILSI North America Session

"Fructose Consumption and Non-alcoholic Fatty Liver Disease: A Systematic Review and Meta-Analysis" at the Endocrine Society's 95th Annual Meeting and Expo

15 June 2013

San Francisco, CA, USA

[More information](#)

ILSI Europe

"Low-grade Inflammation - A comprehensive overview: Biomarkers and modulations by dietary strategies"

15 September 2013

Granada, Spain

[Program details](#)

ILSI North America Session

"Energy Balance and Active Living" at the International Nutrition Congress

17 September 2013

Granada, Spain

[Program details](#)

2014 ILSI Annual Meeting

17 - 22 January 2014

Southampton, Bermuda

[Preliminary details](#)