This past year has seen significant progress for our ILSI Southeast Asia Region (ILSI SEA Region) branch on all of our topics of key focus. In food safety, we continued to organize the Asian Conference on Food and Nutrition Safety series, whereby the 7th edition of the conference was held in Penang, Malaysia in October 2016. With this latest meeting, the conference has now been running for more than 25 years. We conducted the first pilot training session under the Global Food Safety Partnership (led by the World Bank) of the new risk assessment training module for chemical contaminants in food, which will be extended to all ASEAN countries this year. We also extended the Fellowship Program in Risk Assessment with training for three scientists at the Joint Institute for Food Safety and Applied Nutrition (JIFSAN), which will strengthen risk assessment capacity in the region.

On nutrition, we addressed sarcopenia and frailty in Singapore, and will look to extend science on this issue in the region. Our ONE ILSI Global Project on Healthy Aging will yield a number of publications this year, and provide insights into markers and practices, including three countries in Southeast Asia. On the important issue of drivers of consumer food choices, we have organized scientific symposiums in Malaysia, the Philippines and Thailand. Studies on sweetener intake, both caloric and non-caloric, are continuing with the paper on sugar intakes in Malaysia already published.

ILSI SEA Region has supported continuing work on food composition and improved food intake data. Monographs will be published this year surveying the current status in ASEAN, and we have supported efforts at the regional and country level to update food composition data.

Our work on Sustainable Food Systems resulted in conferences on sustainable food security in ASEAN and Australasia, and the importance of new breeding technologies. The broad issue of sustainability will continue to be a key focus.

We thank all of our tripartite partners in governmental agencies and academia, as well as our ILSI SEA Region members, board and scientific advisors. As we help to address the challenges of the food supply, we hope for engagement and cooperation on these scientific issues in the future.

2016 has been a prolific year for ILSI SEA Region, with many scientific accomplishments achieved through collaborations with international and regional agencies and institutions, including meetings, research projects, and publications. We organized a total of 20 science symposia, seminars and workshops across the region, and presented at 9 ASEAN Working Groups and other regional scientific events. We completed 7 out of 17 on-going research projects with topics ranging from studies on nutritional, health and food safety status to review papers on nutrients intake and food composition data. 5 scientific papers were published in peer-reviewed journals, and another 4 have been submitted for final review and journal publication.

In expanding our regional outreach, the new ILSI SEA Region Vietnam Country Committee was formalized in 2016, with an inaugural scientific meeting being planned for mid-2017. Of the existing Country Committees, 4 have also undergone individual Country Strategic Planning to prioritize their programs and activities for the next 2 years.

Under the new ILSI SEA Region Science Structure implemented from 2016, a 3-year project on developing quality Food Composition Data for Southeast Asian countries was initiated. The new Sustainable Food Systems Science Cluster hosted its first scientific meeting on Sustainable Food Security, addressing opportunities and challenges of new plant breeding techniques.

From generating data, dissemination of scientific knowledge to facilitating capacity building, ILSI SEA Region will need further partnerships and expansion of our limited resources to effectively address the many challenges in meeting our mission of public health improvement for the region.

Our appreciation goes to all our members and staff, collaborating institutions, and contributing scientists who generously support with their time and expertise in undertaking this important work.
Mission
The International Life Sciences Institute (ILSI) is a nonprofit, worldwide organization whose mission is to provide science that improves human health and well-being, and safeguards the environment.

Collaboration
Since ILSI was established in 1978, we have achieved this mission by fostering collaboration among experts from public and private sectors of society on conducting, gathering, summarizing, and disseminating science.

ILSI SEA Region
Established in 1993, ILSI Southeast Asia Region (ILSI SEA Region) is a regional branch of ILSI that initiates and coordinates scientific programs, research, and information dissemination among the 10 ASEAN countries (Brunei, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam), Australia and New Zealand.

Our activities focus primarily on nutrition and health promotion; food and water safety; risk science and toxicology; and sustainable agriculture and nutrition security.

With our Regional Office located in Singapore, ILSI SEA Region oversees a Country Office in Australia, as well as Country Committees in Indonesia, Malaysia, Philippines, Thailand and Vietnam.

ILSI SEA Region also serves as coordinator for collaborative programs among ILSI’s Asian branches, including ILSI Focal Point in China, ILSI India, ILSI Japan, ILSI Korea, and ILSI Taiwan.

Public – Private Leadership
ILSI is governed by its Board of Trustees, at least half of which is composed of public sector representatives (primarily academic scientists) and representatives of 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.

Shared Values
ILSI believes leading scientists from industry, government, academia and other civil society organizations can and should work together to identify and address concerns of common interest.

Prominent researchers from industry and academia jointly lead the organization, guiding its work to conduct research, harmonize the use of science, and encourage scientific dialogue.
ILSI SEA Region’s Activities

Sharing of Scientific Knowledge
We organize and facilitate scientific meetings including workshops, seminars, symposia and conferences for local, regional and international audiences. Through these events, ILSI SEA Region is able to provide a credible and neutral platform for the sharing of the latest scientific knowledge and regulatory updates, as well as facilitate the productive exchange of ideas and dialogue among our tripartite stakeholders – industry, academia, and government.

Important outcomes of ILSI SEA Region’s activities and programs are disseminated to our stakeholders and the wider public through our scientific publications, as well as published articles in scientific journals. We also disseminate regular updates of our organization’s news and activities through our website, bi-monthly NewsFlash and ILSI SEA Region Highlights, as well as Science InSight - our biannual ILSI SEA Region newsletter.

Research
ILSI SEA Region seeks to enhance scientific resources and support scientific research in the region through private-public partnerships between industry, government, academia, research and scientific institutions, as well as nonprofit organizations and foundations.

Our research projects aim to identify gaps and potential for future research, investigate and estimate prevalence and determinants of various conditions relevant to each Science Cluster. We also aim to harmonize data and methodologies, collate and improve quality of data and methodologies as well as develop standard databases. Our research and collaborations are based on strict principles of scientific integrity, ethics and transparency.

Community Programs and Capacity Building
In a diverse region with varying levels of socio-economic development, many population groups remain vulnerable to critical problems such as inadequate nutrition, food safety and food security issues. ILSI SEA Region aims to translate science and technology into sustainable solutions, and maximize our impact on improving public health in the region through collaborative projects that bring direct benefits to communities and populations. To enhance the long-term success and sustainability of such initiatives, we also conduct capability development programs and activities for key stakeholders including local health professionals, educators, and government officials.
Governance and Leadership

ILSI SEA Region is governed by a Board of Directors, which comprises an equal number of invited individuals from the public sector (Scientific Directors) and ILSI SEA Region member representatives (Member Directors), to ensure a balance of scientific perspectives.

A Scientific Advisory Committee and a Panel of Scientific Advisors provide the latest scientific knowledge and expertise, as well as general oversight and guidance for our scientific programs.

Board of Directors 2016-2017

Executive Committee

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Chief Executive Officer, Nutrition Strategies International Pte Ltd, Singapore

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ASEAN Scientific & Regulatory Affairs Manager, Coca-Cola Southeast Asia Services Ltd, Thailand

VICE PRESIDENT
Dr. Lionel Buratti
Regional Manager, Nestle Quality Assurance Centre Nestle R & D Center (Pte) Ltd, Singapore

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HONORARY SECRETARY
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Senior Director of Regulatory Policy and Scientific Affairs for Asia, Monsanto Singapore, Singapore

MEMBER-AT-LARGE
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Professor of Food Science and Technology, Bogor Agricultural University, Indonesia

MEMBER-AT-LARGE
Dr. Yu Li
Asia Pacific Director of Scientific and Regulatory Affairs, Mars Foods (China) Co., Ltd, China

Other Members of the Board of Directors

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Director, Research and Development, Abbott Asia Pacific Nutrition Center, Singapore

Prof. Christiani Jeyakumar Henry
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Dr. Widjaja Lukito
Advisor, SEAMEO Regional Center for Food and Nutrition, Indonesia

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Director of Scientific & Regulatory Affairs (SRA) for Asia Pacific, PepsiCo International, Malaysia

Dr. Pichet Itkor
Regulatory Affairs Director for Thailand and Emerging Markets, Mead Johnson Nutrition (Thailand) Ltd, Thailand

Dr. E-Siong Tee
Nutrition Consultant, TES NutriHealth Strategic Consultancy, Malaysia
ILSI SEA Region’s Regional Office based in Singapore is managed by the Singapore-registered consultancy firm, Food & Nutrition Specialists Pte Ltd. The Regional Office oversees and carries out ILSI SEA Region’s day-to-day activities, including coordination and implementation of the Branch’s scientific programs across ASEAN and Australasia. It also oversees ILSI SEA Region’s Country Office in Australia, and its Country Committees in Indonesia, Malaysia, Philippines, Thailand and Vietnam.

The Regional Office, together with the Board of Directors, also charts ILSI SEA Region’s growth and organizational development, supports its resource development, and forges partnerships with local, regional and international stakeholders.

**Branch Management and Staff**

Mrs. Boon Yee Yeong  
Executive Director

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Director, Scientific Programs

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Deputy Director, Scientific Programs/  
Director, Research (Nutrition)

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Senior Manager, Scientific Programs

Ms. Jocelyn Wong  
Assistant Manager, Scientific Programs

Ms. Yee Sin See  
Executive, Scientific Programs

Ms. Li Yuin Yeong  
Director, Development and Communications

Ms. Amy Kok  
Senior Manager, Branch Administration

Ms. Joycelyn Seah  
Assistant Manager, Branch Administration

**Country Office / Committees**

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Australasia

Dr. Siti Muslimatun  
Indonesia

Dr. E-Siong Tee  
Malaysia

Dr. Rodolfo Florentino  
Philippines

Dr. Anadi Nitithamyong  
Thailand
## Panel of Scientific Advisors

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Dr. Andrew Bartholomaeus</td>
<td>CEO, Bartcrofts Pty Ltd, Australia</td>
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<td>Prof. Geok Lin Khor</td>
<td>Emeritus Professor, Universiti Putra Malaysia, Malaysia</td>
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<tr>
<td>Prof. Sakarindr Bhumiratana</td>
<td>President, King Mongkut’s University of Technology, Thonburi, Thailand</td>
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<td>Prof. Woon-Puay Koh</td>
<td>Professor, Duke-NUS Graduate Medical School, Singapore</td>
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<td>Principal Scientific Consultant, Global Food and Chemical Risk Assessment</td>
<td>Risk Management Solutions, Australia</td>
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<tr>
<td>Dr. Mathew Lau</td>
<td>Deputy Director, Academy of Lifelong Learning and Skills, Nanyang Polytechnic</td>
<td>Singapore</td>
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<tr>
<td>Dr. Mario Capanzana</td>
<td>Director, Food and Nutrition Research Institute, Department of Science</td>
<td>and Technology, Philippines</td>
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<tr>
<td>Prof. Yuan Kun Lee</td>
<td>Associate Professor, Department of Microbiology &amp; Immunology, Yong Loo Lin</td>
<td>School of Medicine, National University of Singapore, Singapore</td>
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<tr>
<td>Dr. Soh Ha Chan</td>
<td>Emeritus Professor, Department of Microbiology, National University of</td>
<td>Singapore</td>
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<tr>
<td>Prof. Lynne Cobiac</td>
<td>Science and Deputy Director, Food, Nutrition &amp; Bioproducts Flagship,</td>
<td>Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia</td>
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<tr>
<td>Dr. Siti Muslimatun</td>
<td>Head of Study Program - Food Science, Indonesia</td>
<td>International Institute for Life Sciences, Indonesia</td>
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<tr>
<td>Prof. Dedi Fardiaz</td>
<td>Professor, Bogor Agricultural University, Indonesia</td>
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<tr>
<td>Prof. Choon Nam Ong</td>
<td>Director, National University of Singapore Environmental Research In</td>
<td>Institute, Singapore</td>
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<tr>
<td>Prof. Michael Fenech</td>
<td>Principal Research Scientist, Food and Nutritional Sciences, CSIRO, Aus</td>
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<td>Prof. Andrew Sinclair</td>
<td>Emeritus Professor of Nutrition Science, School of Medicine, Deakin Unive</td>
<td>rsity, Australia</td>
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<td>Dr. Rodolfo Florentino</td>
<td>Chairman-President, Nutrition Foundation of the Philippines, Philippines</td>
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<td>Prof. Songsak Srianujata</td>
<td>Senior Advisor, Institute of Nutrition, Mahidol University, Thailand</td>
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<td>Prof. Lynn Frewer</td>
<td>Professor of Food and Society, Centre for Rural Economy, Newcastle Uni</td>
<td>visity, United Kingdom</td>
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<tr>
<td>Mr. Jeffrey Stein</td>
<td>Biosafety Advisor, Donald Danforth Plant Science Center, USA</td>
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<tr>
<td>Prof. Barry Halliwell</td>
<td>Senior Advisor to the President, National University of Singapore, Singap</td>
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<tr>
<td>Prof. Paul P S Teng</td>
<td>Principal Officer, National Institute of Education, Nanyang Technological</td>
<td>University, Singapore</td>
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<tr>
<td>Prof. Purwiyatno Hariyadi</td>
<td>Director, Southeast Asian Food and Agricultural Science and Technology (</td>
<td>SEAFAST) Center, Bogor Agricultural University, Indonesia</td>
</tr>
<tr>
<td>Prof. Pattanee Winichagoon</td>
<td>Associate Professor, Institute of Nutrition, Mahidol University, Thailan</td>
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In 2014 - 2015, ILSI SEA Region carried out its Strategic Planning exercise and one of the key priorities identified was the review and renovation of its existing Science Clusters structure. The existing Science Clusters structure was established in 2007, and it was recognized that a review was needed to address changing and new emerging issues in public health, nutrition and food safety.

At the same time, ILSI Global initiated the ONE ILSI approach, with 4 thematic areas covering the key areas of focus for ILSI as a global scientific organization. A reorganization of ILSI SEA Region’s Science Clusters structure would allow the branch to better align its scientific programs and activities with ONE ILSI thematic areas.

Reorganization of ILSI SEA Region’s Science Clusters structure was completed in 2015, and implementation of the new structure commenced from January 2016.
FOOD AND NUTRIENTS IN HEALTH AND DISEASE
This Science Cluster focuses on the biological and physiological aspects of nutritional science. The objectives of this Science Cluster are to examine nutritional issues that impact the health of populations, and generate scientific information regarding local dietary intakes and disease risk in the region. These objectives are achieved by conducting collaborative primary and secondary research in the different regional countries, and by organizing conferences, workshops and expert consultations to share latest science and specific topics on diet and health issues.

Topics that fall within this Cluster include:
• Diet, Health Impacts and Disease Risks
• Macronutrient and Micronutrient Needs and Status
• Physical Activity and Energy Balance
• Biomarkers and “omics” Sciences

In addition, two separately funded programs under the purview of this Science Cluster are:
• Technical Committee on Maternal, Infant and Young Child Nutrition (MIYCN), and
• ONE ILSI Global Project on Healthy Aging (of which ILSI SEA Region is a co-leader).

FOOD SAFETY AND RISK ASSESSMENT
This Science Cluster aims to address emerging scientific issues related to microbiological and chemical safety in food and water that are affecting the region; facilitate capacity building in the development and utilization of risk assessment in the region; support science-based harmonization of food control measures, such as food safety standards among ASEAN countries; as well as help to improve food hygiene practices and access to clean water through community-based programs.

Topics that fall within this Science Cluster include:
• Chemical Food Safety Issues
• Microbiological Food Safety Issues
• Water Safety
• Risk Assessment
• Food Safety Risk Management
• Risk Perception and Communication

SUSTAINABLE FOOD SYSTEMS
This new Science Cluster will facilitate ILSI SEA Region’s engagement in a broader range of increasingly relevant topics related to agriculture, food and the environment.

The objectives of this Science Cluster includes facilitating knowledge sharing on sustainable food production technologies, including storage, processing, food safety treatments and packaging; addressing emerging scientific issues on agricultural sustainability and nutrition security in the region; establishing metrics for sustainable nutrition security (SNS) suitable for the safe use of new agri-food production technologies that may address food and nutrition security concerns; and raising awareness and share information on impacts of climate change and other risks to the agri-food production and supply system.

Topics that fall within this Science Cluster include:
• Sustainable Agriculture and Food Systems
• Sustainable Nutrition Security (SNS)
• Climate Change and Other Risks to the Agri-Food Supply System

NUTRITION AND FOOD GUIDANCE FOR PUBLIC HEALTH
This Science Cluster has been reorganized from the previous Food Innovations Science Cluster. A key objective of this new Cluster is to promote the development of sound dietary guidance for populations. To achieve this, sound methodologies and tools are required for dietary assessment in order to identify key sources of nutrients as well as potential deficiencies and excesses, and to monitor the effects of nutrition interventions.

Topics that fall within this Science Cluster include:
• Methodologies and Tools for Dietary Assessment
• Dietary Guidelines
• Nutrition Labeling and Claims
• Functional Foods
• Food Fortification
• Science of Consumer Behavior
Food safety is a key priority within the newly established ASEAN Community – both for the purpose of ensuring the health and wellbeing of the population, as well as in facilitating food trade within the region.

To raise awareness on the importance of food safety among relevant stakeholders within the region, ILSI SEA Region and the Southeast Asia Association for Food Protection (SEA AFP), together with the International Association for Food Protection (IAFP) and Food Safety and Quality Division, Ministry of Health, Malaysia, jointly organized the 4th Asia-Pacific International Food Safety Conference & 7th Asian Conference on Food and Nutrition Safety from October 11-13, 2016, in Penang, Malaysia. More than 400 participants from Southeast Asia and other countries, representing food safety authorities, food industry, and academics researchers attended the conference.

The theme of the joint conference – ‘Advancing Food Safety in the ASEAN Community’, emphasized the need for ASEAN to further develop its food safety capability by harnessing knowledge from across the Asia-Pacific region, improving the scientific understanding of various food safety issues, as well as adopting new food safety technologies and innovations. Exciting new advances and emerging issues related to food safety, such as whole genome sequencing and food safety, as well as food fraud, were discussed at the conference.
ASEANFOODS – ILSI SEA Region Workshop on Food Composition Database: Facilitating Analyses of Food and Nutrient Intakes

The Association of Southeast Asian Network of Food Data Systems (ASEANFOODS) was established in 1986 with 10 ASEAN member countries to coordinate, promote and support the development of national and regional food composition databases (FCDBs), and to ensure that they are maintained at a high standard and are accessible to users in ASEAN and other regions. A Roundtable Discussion on FCDB was organized by ILSI SEA Region and co-organized by Institute of Nutrition, Mahidol University (INMU) on December 17-18, 2015 in Bangkok, Thailand to develop a draft system for quality evaluation of published food composition tables (FCTs) and FCDBs in the region, and use the system to evaluate the quality of current FCTs and FCDBs.

A follow-up meeting titled ASEANFOODS - ILSI SEA Region Workshop on Food Composition Database: Facilitating Analyses of Food and Nutrient Intakes was organized by ILSI SEA Region, in collaboration with ASEANFOODS from March 30-31, 2016 in Bangkok, Thailand. Participants include food composition data (FCD) developers, FCD users, and key representatives from government and industry from 9 ASEAN countries except Brunei.

This workshop continued to provide the platform for ASEANFOODS stakeholders to discuss the development of quality and comprehensive FCDBs as well as follow-up on the recommendations of the December 2015 Roundtable Discussion.

The workshop objectives were to:
1. Review the proposed plan and strategies for updating of ASEAN FCTs/FCDBs and how stakeholders can contribute;
2. Harmonize the protocol for compilation of food composition data from other FCDBs and developing FCDB from the ‘borrowed’
3. Discuss the feasibility of incorporating nutrient content of pre-packaged foods (branded food products database) available in the region into national FCDBs.

Key recommendations from the workshop:
• Proposed ASEAN food composition training course;
• Proposed pilot project involving 3 countries: Malaysia, Philippines and Thailand, to collaborate with food companies in obtaining primary data of branded food products for inclusion in national FCDBs;
• Development of standardized process for ‘borrowing’ of good quality data and a guideline for evaluation of ‘borrowed’ data;
• To identify gaps and prioritize missing nutrients and food items that are important for the population for analysis and inclusion in the national FCDB.

In 2012, the World Bank launched its Global Food Safety Partnership (GFSP) initiative as a unique and ambitious global public-private partnership dedicated to improving food safety worldwide, particularly among middle-income and developing countries. Since its inception, ILSI has been a strong supporter of the GFSP’s work and has been recognized as an official in-kind contributor to the GFSP.

As part of the work of GFSP, a project to develop a food chemical risk assessment training program intended for food safety risk managers was initiated in late 2012. A draft set of the chemical risk assessment training modules were finalized in early 2016 and ILSI SEA Region was requested to support the piloting of these materials among ASEAN countries.

Thus, on August 25-26, 2016, ILSI SEA Region together with the Agri-Food and Veterinary Authority of Singapore (AVA), which is also an in-kind contributor to the GFSP, helped to organize the Pilot Workshop for the World Bank GFSP Food Chemical Risk Assessment Training Program. The 2-day workshop was hosted by AVA at their Veterinary Public Health Centre in Singapore.

The objectives of the workshop were to:

1. Review and discuss the content and presentation of the chapters in the draft modules of the food chemical risk assessment program.

2. Discuss and plan for next steps in relation to the future global roll-out of the program.

The workshop represents a successful collaboration with the GFSP and the feedback gathered from it will help to guide the next steps to finalize the training materials.
Indonesia Workshop on Food Composition Tables

Plans were made in Indonesia to compile all available FCTs and develop a national FCT. A workshop, held from November 28-29, 2016, was then organized by the Ministry of Health Indonesia and co-organized by ILSI SEA Region to provide a platform which facilitated a discussion on how to “borrow” better quality data for inclusion in the national FCT, develop sampling plans and analysis, identify missing gaps in current FCTs, and discuss strategies for improving and updating the future FCT. This workshop was attended by relevant FCT developers and users from Indonesia with experts from Thailand and Malaysia as facilitators.

Key outcomes from the workshop:

- Discussed issues relating to “borrowing” of good quality data for inclusion of in FCT and sampling plans
- Drafted an action plan on what needs to be done and who is in charge.
- ILSI SEA Region to facilitate a follow-up training workshop in 2017
Studies have shown that habitual high salt intake is one of the risk factors influencing population-wide blood pressure patterns. In Southeast Asia, hypertension is a major risk factor for cardiovascular disease. Traditional salted and fermented foods and condiments are an integral part of Southeast Asian cuisine and contribute to increased sodium intakes in the region which are predictably higher than western countries.

A review study was conducted by searching online and published literature to examine the best available evidence regarding levels and sources of sodium intake in six Southeast Asian countries: Indonesia, Malaysia, Philippines, Singapore, Thailand, and Vietnam. The objectives were to describe levels of sodium consumption, as shown in available national surveys and individual studies, and to identify sources of sodium including traditional foods and condiments and their levels of use. The review was published in a book chapter of Preventive Nutrition (5th Ed) in 2016.

RESULTS
The review results showed that only two of the six countries (Singapore and Vietnam) had sufficient information regarding the level of sodium intake of their respective adult populations, and that all six countries had insufficient information regarding the main sources of sodium. In spite of the paucity of data, the available studies indicate that sodium intakes of adults in these countries are most likely in excess of the WHO recommendation of <2000 mg Na/day, and that table salt and traditional sauces and seasonings added to food during cooking and at the table are major sources of dietary sodium. None of the countries had nationally representative information regarding sodium intakes of younger age groups.

The review had suggested that for an accurate assessment of sodium intake levels, countries should use urinary sodium excretion measures to indicate the magnitude of the problem within the population. In order to identify dietary sources of sodium, national food consumption surveys should be conducted to include the estimated sodium content of the foods consumed by individuals, including discretionary use of salt/condiments in cooking and at the table. Surveys assessing sodium intake levels and sources should be repeated at regular intervals to monitor changes in consumption and to provide data for evaluating the effects of salt reduction initiatives. Given the high prevalence of hypertension in the region, countries should aim to reduce sodium and increase potassium intakes of the population.
Report on Food Composition Tables: Review of Status in ASEAN Region

To assist all stakeholders – including national health authorities and regulators, industry, researchers and scientists - across ASEAN to better understand the status of Food Composition Tables (FCTs) in the region, ILSI SEA Region has published a report on FCTs available for use in the region. The report includes general information (such as the availability of each FCT, publication year and institutes managing the FCTs), and information on the nutrients, food groups and food items that are published in each FCT.

This status review would allow an easy comparison of the data available in the ASEAN region. It would be useful in the identification of gaps for prioritization of key nutrients and food items to be included in the FCT. The report will be published online on ILSI SEA Region’s website.
Anemia is one of the ten leading diseases contributing to the increase in morbidity and mortality rates in the world, especially for women and children. It is considered a serious public health problem in Cambodia, with 47% of the women of reproductive age (WRA) being anemic and more than 50% of the children between 6 and 59 months being anemic in 2010. Several micronutrient deficiencies including iron, Vitamin A, riboflavin, folic acid and Vitamin B12, which can cause anemia are also highly prevalent in Cambodia. Preliminary results of a dietary intake data from Cambodia have shown that recommended daily intakes of iron and folic acid are not met in infants, children and WRA. In addition, their diets are lacking in calcium, zinc, and several Vitamin Bs.

ILSI SEA Region had supported and collaborated with Cambodia’s Ministry of Agriculture Forestry and Fisheries, Fisheries Administration, and Department of Fisheries Post-Harvest Technologies and Quality Control, on the research project to establish nationally representative data on the prevalence of anemia and deficiency of several important micronutrients such as iron, Vitamin A, iodine, zinc and Vitamin D in WRA and children less than 5 years of age. The research project also aimed to obtain data on body composition which is important to establish risk patterns for chronic diseases, both current and later in life.

A Micronutrient Survey was conducted after the data collection of the Cambodian Demographic Health Survey (CDHS) 2014. Biological samples of blood, urine and stools were collected from 1000 children and 1000 WRA of 19 provinces for analysis. Data analysis have been completed in 2016. A paper titled “Evidence of a High Prevalence of Thiamine Deficiency in Early Childhood among a Nationally Representative Sample of Cambodian Women of Childbearing Age and Their Young Children” has been drafted and submitted to Nutrients journal for review.

Nationally-representative Survey of Thiamine Deficiency in Cambodia for Infants and Pregnant Women
Resource Allocation 2016

Income
$1,802,205

- Conference/Meeting Registrations $185,401
- Other Income $4,034
- Membership Dues $547,577
- Interest Earnings $309.35
- Science Clusters Fund $660,377
- Publications $13,706
- Grants & Sponsorship $390,801

Expenditure
$1,687,808

- Administration & Operations $280,782
- Development & Governance $285,155
- Conferences/Meetings $477,377
- Research $27,384
- Publications $50,116
- Science Clusters Activities/Research $596,994
Abbott Nutrition R&D
Ajinomoto SEA Regional Headquarters Co., Ltd
BASF South East Asia Pte Ltd
Bayer CropScience Pty Ltd
BENEOS Asia-Pacific Pte Ltd
Cadbury Enterprises Pte Ltd (Mondelez Asia Pacific Pte Ltd)
Campbell Arnotts
Coca-Cola Southeast Asia Services Co Ltd
DSM Nutritional Products Asia Pacific Pte Ltd
Fonterra Co-Operative Group Ltd
FrieslandCampina Development Centre AMEA Pte Ltd
General Mills
Herbalife International Singapore Pte Ltd
Kellogg Asia Pacific Pte Ltd
MARS Incorporated
Mead Johnson Nutrition (Asia Pacific) Pte Ltd
Monsanto Company
Nagase & Co., Ltd
Nestle R&D Center (Pte) Ltd
Nutricia Research Singapore
Nutrition Strategies International Pte Ltd
PepsiCo Asia Services Ltd
PT Nutrifood Indonesia
Simplot Australia Pty Ltd
Suntory Beverage & Food Company Japan
Syngenta Asia Pacific Pte Ltd
Tate & Lyle
Unilever South East Asia and Australasia
U.S. Dairy Export Council
Yakult Honsha Co., Ltd
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