

Transformation Technologies and Translational Research



A New Era in Advancing Sustainable Food System and Public Health Solutions

April 23, 2018 | Grand Copthorne Waterfront Hotel, Singapore

Program

07:45 – 08:30 hr **Registration**

08:30 – 08:45 hr **Opening and Welcome**
Mr. Geoffry Smith, ILSI SEA Region, Singapore

KEYNOTE

Chairperson: Prof. Choon Nam Ong, NERI, Singapore

08:45 – 09:20 hr **Understanding Emerging and Innovative Technologies in the Era of Smart Data and Bio-inspired Engineering for Public Health Solutions**
*Dr. Ralph Graichen, A*STAR, Singapore*

09:20 – 09:55 hr **An Evolutionary Perspective on Nutritional Science and Human Health: From Reductionism to System Approaches**
Prof. Richard Head, The University of South Australia, Australia

09:55 – 10:10 hr **Q&A**

10:10 – 10:30 hr **Tea Break**

SESSION 1 **Transformation Technologies in Food Systems**
Applications in Food Manufacturing and Supply Chains
Chairperson: Dr. Diana Banati, ILSI Europe, Belgium

10:30 – 10:55 hr **Technology Innovation: Trends that are Reshaping Life Science Research and Approaches to Food and Human Health**
Dr. Chor San Khoo, ILSI North America, USA

10:55 – 11:25 hr **Innovations in Agriculture and Food and Implications for Nutrition and Precision Health**
Dr. Christopher Downs/Prof. Lynne Cobiac, CSIRO, Australia

11:25 – 11:55 hr **New Agricultural Technologies for Sustainable Food Systems and Nutrition Improvement in ASEAN: Opportunities and Challenges**
Prof. Paul Teng, NIE/ NTU, Singapore

11:55 – 12:25 hr **Data Science and Analytics: Blockchain and its Application in the Food Supply Chain**
Ms. Zelda Anthony, IBM ASEAN, Singapore

12:25 – 12:40 hr **Q&A**

Program

12:40 – 13:45 hr **Lunch and Networking**

SESSION 2

Reshaping Human Health Through Translational Science

Improved Nutrition, Biomedical Impact and Public Health Solutions

Chairperson: Prof. Lynne Cobiac, CSIRO Health and Biosecurity, Australia

13:45 – 14:15 hr

Harnessing Emerging Technologies in Nutrition and Biomedical Science for Public Health Improvement

*Prof. Christiani Jeyakumar Henry, CNRC, A*STAR/NUHS, Singapore*

14:15 – 14:45 hr

Advances in Antioxidant Research: Translation from Bench to Applications

*Prof. Barry Halliwell, A*STAR/NUS, Singapore*

14:45 – 15:15 hr

Potential of Genome Editing Tools in Agriculture, Preventative Health, and Diseases – Current and Future

*Prof. Meng How Tan, Genome Institute of Singapore, A*STAR, Singapore*

15:15 – 15:30 hr

Q&A

15:30 – 15:45 hr

Afternoon Refreshment Break

SESSION 3

Transformation Technologies in Food Safety

Improving Food Safety Assessment and Management

Chairperson: Dr. Junshi Chen, ILSI China, China

15:45 – 16:15 hr

Food Integrity, Safety and Regulatory Compliance in the New Tech-Driven Food Supply and Delivery System

TBC

16:15 – 16:45 hr

Applications of Next Generation and Whole Genome Sequencing (WGS): Opportunities and Challenges for Food Safety Management

Dr. Masami Takeuchi, FAO RAP, Thailand

16:45 – 17:15 hr

Novel Computational Approaches for Assessing the Allergenic Potential of Proteins for the Food Industry

*Dr. Sebastian Maurer-Stroh, Bioinformatics Institute, A*STAR, Singapore*

17:15 – 17:30

Q&A

PANEL DISCUSSION

17:30 – 17:55 hr

Multi-stakeholder Partnerships in the Application of New Technologies in the Food System

*Chairperson: Dr. Ralph Graichen, A*STAR, Singapore*

17:55 – 18:00 hr

Closing Remarks

Organizer



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