

5th Asia-Pacific Food Safety International Conference 2021

An IAFP Asia-Pacific Conference

January 27-28, 2021

Organizers



. Conference Report .

Towards Safer Global Food Supply

2009 Seoul . 2011 Melbourne . 2013 Taipei . 2016 Penang . 2021 Hong Kong (Virtual Conference)

Food Safety Consortium (FSC), as the Hong Kong affiliate of the International Association for Food Protection (IAFP), organized the **5th Asia-Pacific Food Safety International Conference (APFSIC)** virtually on January 27-28, 2021. As one of the IAFP's regional conference series, **APFSIC** featured an **impeccable network of more than 80 speakers and 400 registrants** from the industry, academia, research institutes, governments, supranational bodies, as well as students globally for a two full-day holistic, inspirational and educational knowledge, best practices, and regional plus global updates in food safety and quality.

Day 1 Keynotes and Plenary Speeches covered COVID-19 and food safety, FDA's new era of smarter food safety, latest regulatory developments in Hong Kong, fostering food safety culture, food supply chain analytics informing management of public health risks, food safety from the perspective of animal health and zoonosis, smart technologies and innovations, controlling COVID-19 transmission through food packaging, supranational level adaptation in response to COVID-19 and post-pandemic era, and an engaging discussion among IAFP regional affiliates in strengthening their partnerships.

Day 2 Breakout Sessions covered new detection methods and intervention technologies, risk management strategies, food safety at food service and retail settings, AI, machine learning and big data in food safety, training and certification, consumer communication, produce food safety, emerging pathogens and their control, food fraud and authentication, sharing by DISH Global Centre for Food Safety and Quality, and updates of *EU-China-Safe*, a cross-continental effort to deliver an effective, resilient and sustainable EU-China food safety partnership.

Founded in 1911 and based in the United States, **IAFP represents over 4,000 professionals** from educators, government officials, microbiologists, food industry executives and quality control professionals from 50 nations who are involved in all aspects of growing, storing, transporting, processing and preparing all types of foods. FSC, which endeavors to bring about the most cutting-edge food safety and food technologies to benefit the global community, has been recognized as the Hong Kong affiliate of IAFP since 2015, to synergize their efforts in advancing food safety in various regions of the world.

Food borne illnesses, food fraud and other safety and quality issues create significant adverse public health, social, and economic impact across Asia as it does globally. Hosted at the gateway to an enormous China market and at the crossroad to a rapidly rising Asia region, APFSIC was a perfect occasion and time for all stakeholders to come together to address evolving food safety issues facing this region under the post-COVID-19 era. **In strengthening regional and global collaborative efforts and expertise, we are ready to embrace 2021 with the best innovations, the strongest partnerships, and extreme resilience.**

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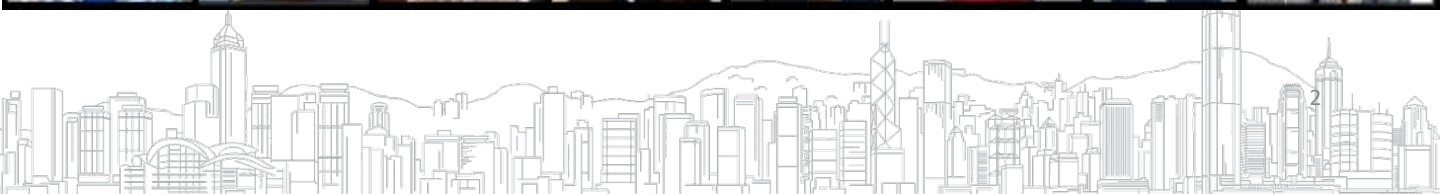
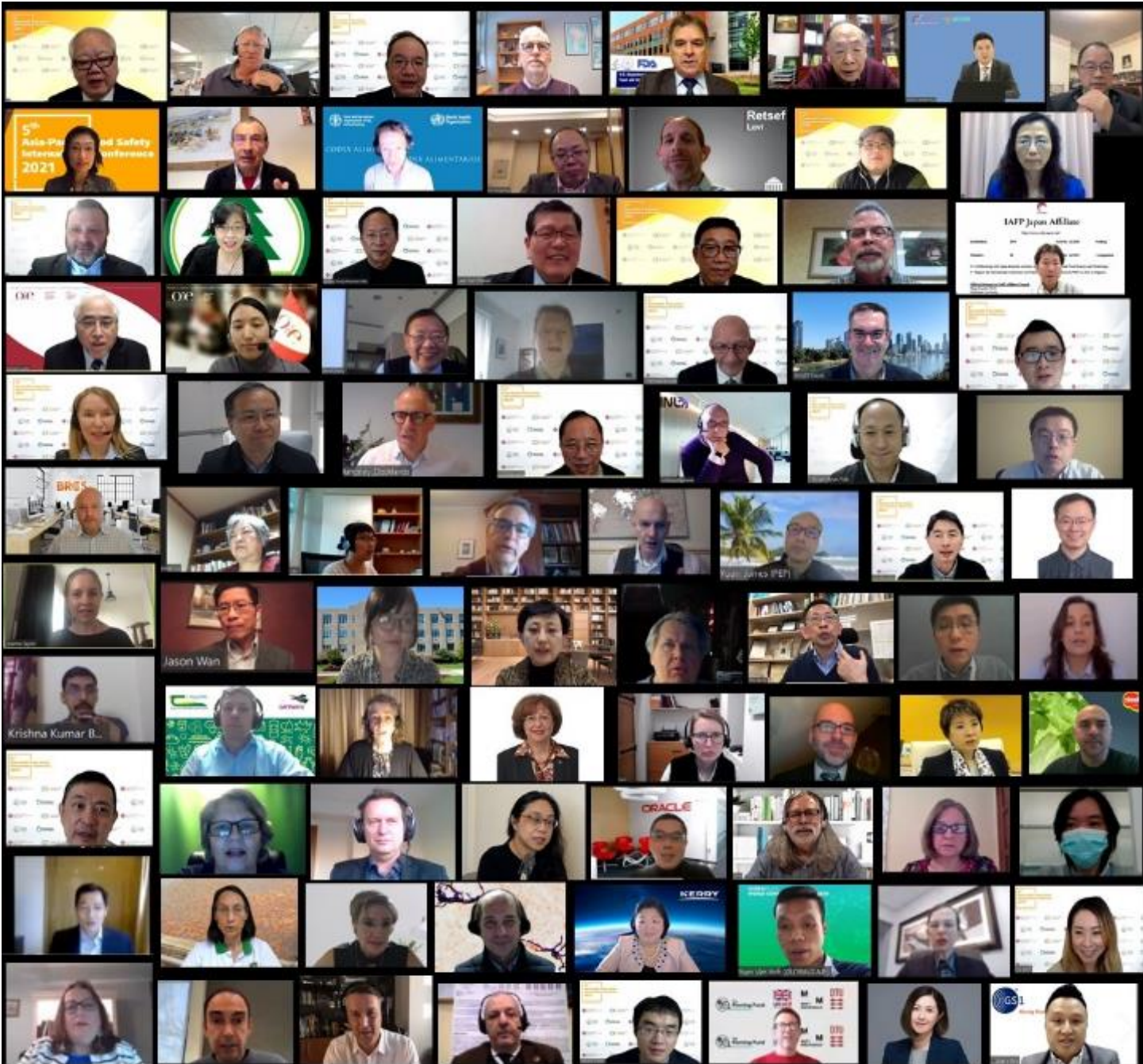
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Our impeccable network of 80+ world-leading speakers from the industry, academia, research institutes, governments, and supranational bodies



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Welcome Remarks



APFSIC 2021 started with welcome remarks by **Prof. Terence Lok-ting Lau**, Chair of the Organizing Committee of APFSIC; Convener, Food Safety Consortium; and PolyU Interim Associate Vice President (Innovation and Technology Development), joined by **Prof. Yuk-lam Lo**, Chairman, Advisory Council on Food and Environmental Hygiene, Food and Health Bureau, The Government of Hong Kong SAR, and **Dr. Roger Cook**, President, International Association for Food Protection (IAFP); Principal Adviser (Strategic Science and Risk Assessment), New Zealand Food Safety, New Zealand Ministry for Primary Industries.

Under a new normal, global food supply is facing immense hardship and disruptions and is calling for pioneering innovative technologies with great adaptability, safety, and quality. Food safety issues and evolving trends under the pandemic require the support of foresighted, cross-disciplinary research with smart applications of big data, IoT, artificial intelligence, and machine learning in the domain alongside with food science and technology. This 5th regional IAFP conference aims at synergizing expertise and power globally yet with regional considerations to tackle food safety challenges with unprecedented determination and strength. It will bring to the audience a holistic exposure of what are needed to ensure safe global food supply.

Keynote Plenary Speeches

Current Global Challenges, New Initiatives

Moderated by Prof. Terence Lau, the first Keynote Plenary Session featured **Professor Junshi Chen**, Senior Research Professor and Chief Adviser, China National Center for Food Safety Risk Assessment who kicked off the session by sharing his views on “**COVID-19 and Food Safety**”.



COVID-19 is a disease of animal origin according to the WHO. While there have not been reports of transmission of the virus through food to human, there have been concerns on food packaging. Prof. Chen presented the findings and analyses of various outbreaks in mainland China, including the isolation of live SARS-CoV-2 from the outer surface of imported frozen food package. Besides introducing technological advancement for better detection and protection, protection of food industry workers from infection is a high priority, and the prevention of cross contamination of the virus throughout food chain remains a challenge.



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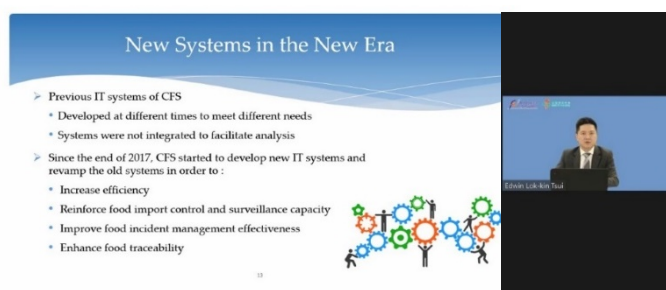
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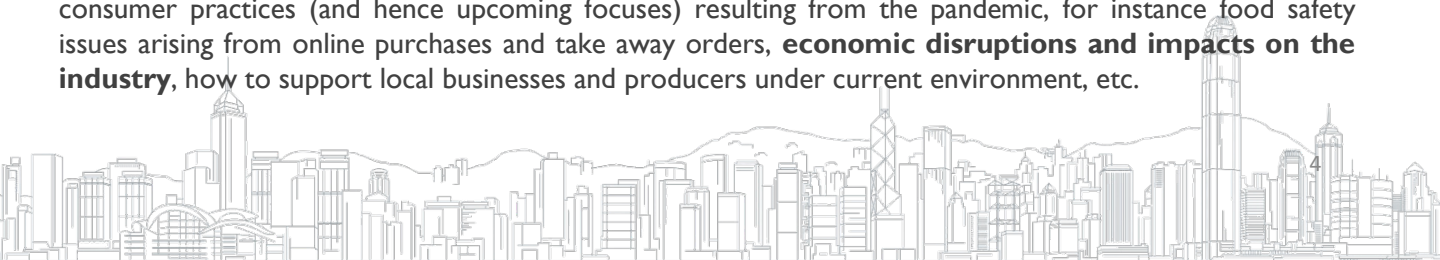
Mr. Frank Yiannas, Deputy Commissioner for Food Policy and Response, United States Food and Drug Administration introduced “**FDA’s New Era of Smarter Food Safety**”. FDA has taken a new approach to food safety, leveraging technology and other tools to create a safer and more digital, traceable food system. The FDA blueprint strived to enhance traceability, improve predictive analytics, respond more rapidly to outbreaks, address new business models, reduce contamination of food, and foster the development of stronger food safety cultures. The needs of achieving these New Era goals are even more accelerated under the pandemic, and calls for FDA’s closer partnerships with the food industry, academia and government agencies and consumers to ensure a strong and resilient food system for all.



Dr. Edwin Lok-kin Tsui, Controller, Centre for Food Safety, The Government of the Hong Kong Special Administrative Region concluded the session by explaining how Hong Kong’s Centre for Food Safety is committed to enhance local food safety through a multi-pronged approach by closely monitoring global developments, as well as taking local practices and risk assessments into account. Upgrading its IT systems to reinforce its capacity in food import control and surveillance, streamlining workflow for overall efficiency enhancement and food incident handling are particularly highlighted developments in recent years.



The session ended with highlights regarding on-going technology and social challenges in implementing smart innovations in the food chain, for example in **creating shared values and fostering food safety culture in the entire, still decentralized food system; continuing concerns on consumer health in relation to food-borne illnesses and authenticity.** In addition, there are also challenges and change of consumer practices (and hence upcoming focuses) resulting from the pandemic, for instance food safety issues arising from online purchases and take away orders, **economic disruptions and impacts on the industry**, how to support local businesses and producers under current environment, etc.



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Animal Health, Zoonosis and Food Safety



In the keynote plenary moderated by **Dr. Michelle Yeung**, Senior Veterinary Officer (Animal Health), Agriculture, Fisheries and Conservation Department of the Hong Kong SAR, **Dr. Hirofumi Kugita**, Regional Representative and **Dr. Maho Urabe**, Regional Veterinary Officer, of World Organisation for Animal Health (OIE) shared views on **Food Safety from the Perspective of Animal Health and Zoonosis**.

To minimise risks of food contamination, action is needed at all stages of the food chain from production at the farm through to human consumption. The prevention, **detection and control of many foodborne hazards of animal origin** at the primary production phase is important to reduce the burden of disease in the animal and the risk of human illness through foodborne contamination as well as human infections resulting from direct or indirect contact with infected animals. **Improvement in animal health brings improvement in food safety**. The importance of strengthening **public-private partnerships** in the veterinary domain was also highlighted as it is an invaluable way of enabling positive changes in resource-constrained settings.

COVID-19 – Adapting, Controlling, and Moving-on

Moderated by **Ir Professor Ping-kong Alexander Wai**, Chairman of Steering Committee, Food Safety Consortium, moderated the last keynote plenary for the audience. **Professor Yongning Wu**, Chief Scientist, China National Center for Food Safety Risk Assessment presented on the “**Controlling of COVID-19 Transmission due to Contaminated Imported Frozen Food and Food Packaging**”, while **Mr. Tom Heilandt**, Secretary, FAO/WHO Codex Alimentarius Commission, shared his view on how to “**Learn, Adapt, and Invent ... Moving On**” for Post-COVID-19 and also Codex in 2021.

While the rate of COVID-19 transmission through food packaging is low compared to human-to-human transmissions, we should stay vigilant and practice stringent risk control on the potential transmission of virus through food and other packaging. It is foreseen that more rules towards better food hygiene will be added at the global level and the crisis also calls for more relevant regulations, regulatory harmonization and standards setting in order to keep safe food trade going.



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Plenary Speeches and Panel Discussions

Fostering Food Safety Culture: The Key to Safe Food for Everyone



Everyone knows how to and will do the right thing for food safety, even when no one is looking.

It is everyone's responsibility to foster, support and strengthen food safety culture on farms, in food production facilities, at retail stores, and in homes. Dramatic improvements in reducing foodborne illness outbreaks or recalls will need to come from influencing the beliefs, attitudes, and behaviors of people and actions of organizations. A positive food safety culture is a prerequisite to effective food safety management.

The panel of distinguished speakers shared insights and proven examples on how to elevate food safety culture within their organization: food retailer, food service, food production and on farm. Information and practices on leveraging food safety culture assessment tool were discussed, and the role of organization leaders in nurturing passion, motivation, and proper communication to create shared values with and among employees are some of the key elements that were stressed. It is important for organizations to prioritize food safety culture and recognize its importance in brand protection and other benefits it will bring along.

Moderator:

Ms Cindy Jiang

Senior Director, Global Food Safety Risk Management
Global Supply Chain, McDonald's Corporation

Speakers & Panelists:

Mr. Hugo Gutierrez

Global Food Safety and Quality Officer, Kerry Group

Dr. Zhinong Yan

Executive Director, Walmart Food Safety Collaboration Center

Ms Inna Korotenina

Director of Quality Assurance, McDonald's Corporation

Dr. Tim Jackson

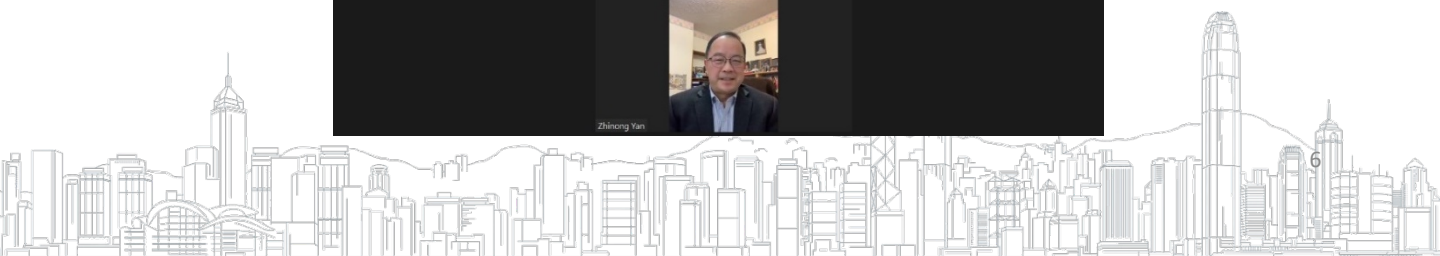
Vice President Food Safety, Regulatory and Social Compliance, Driscoll's of the Americas

Dr. John Tomlinson

APAC and Global Sales & Marketing Director, BRCGS

Dr. Joanne Taylor

Co-founder, Culture Excellence



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Smart Technologies & Innovations

From some years now the agri-food business has been facing its biggest challenges, namely, from turmoil in domestic and international markets, intensified by the COVID-19 pandemic to shift in consumer preferences, and to technology-enabled improvements. For governments, the burden of food borne diseases and the negative impact of the agri-food business on climate change have consequently entailed them tightening food regulation constraints while new products and production methods driven by new technologies should entail them setting up a new adapted and globally harmonized regulatory framework. Today's consumers are intensively concerned about the relationship between their diets and their health and the planet as well, highly connected, they are increasingly empowered by technologies.

In addressing today's challenges, the session provided updates in the latest innovations from blockchain applications on food safety, developments in cultured meat, enabling technologies for enhancing food safety, to APAC regional needs and perspectives on how standards, sciences and partnerships can accelerate the adoption and availability of innovations in the industry. In ensuring companies' access to the best science, a long-existing hurdle is data sharing and digital transformation. While developments are seen at economy or country level, cross-boundary applications still face key challenges such as data security, confidentiality, and trust issue. It is important to have organizations such as the academia, which possess the capacity to develop networks for training and capacity building, to catalyze collaborations worldwide and to ensure such effort can converge and for different stakeholders to have access.

Moderator:

Mr. Yves Rey

Independent Senior Advisor to Industry Leaders,
Former Danone Corporate General Manager
Former GFSI Chairman

Speakers & Panelists:

Mr. Tom Heilandt

Secretary, FAO/WHO Codex Alimentarius Commission

Mr. Nicholas Brooke

ABAC Principal Advisor to APEC Policy Partnership on
Science, Technology and Innovation (PPSTI)

Prof. Jiannong Cao

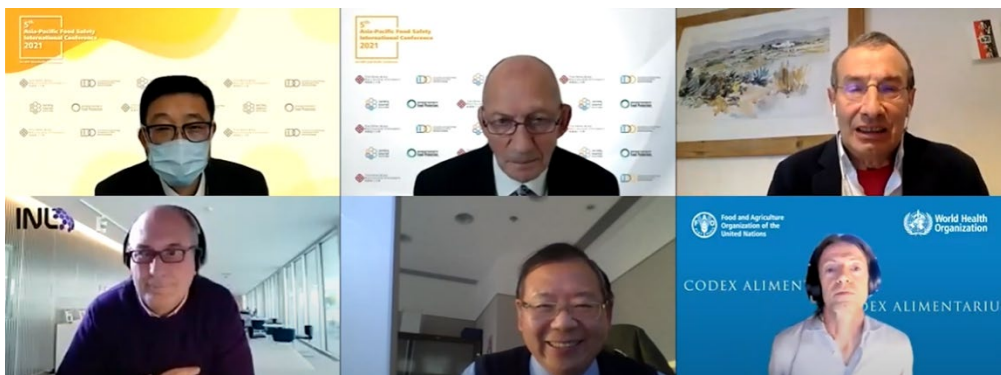
Chair Professor of Distributed and Mobile Computing,
Department of Computing, PolyU

Prof. Lorenzo Pastrana

Chair of the Research Office and Group Leader of the
Food Processing Group,
International Iberian Nanotechnology Laboratory (INL)

Mr. Simon Wong

Chief Executive Officer
Logistics and Supply Chain MultiTech R&D Centre



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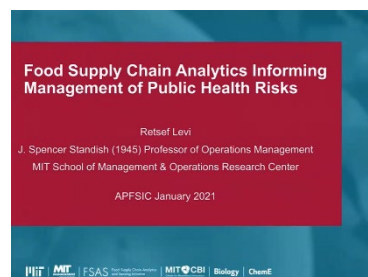
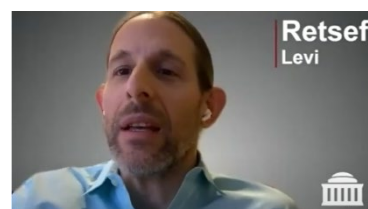
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Invited Lecture

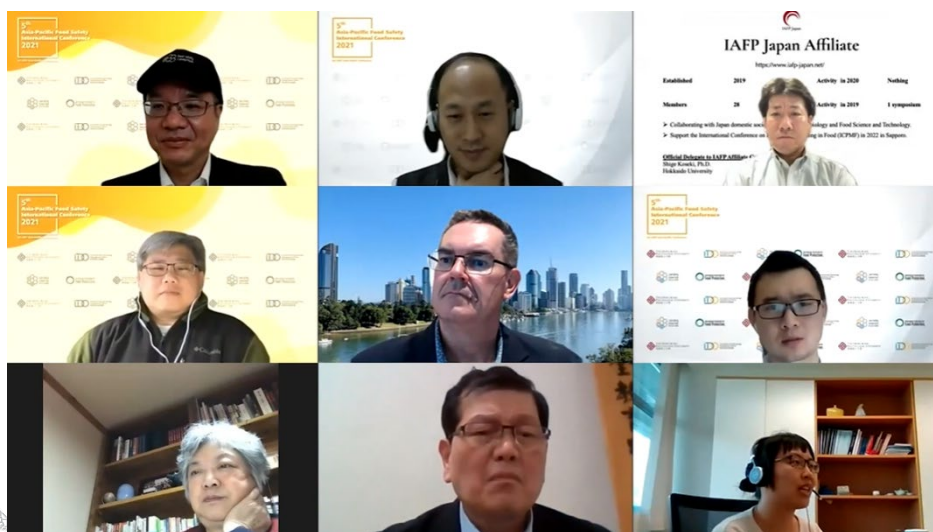
An invited lecture shared by **Professor Retsef Levi**, J. Spencer Standish (1945) Professor of Operations Management, MIT Sloan School of Management, on **“Food Supply Chain Analytics Informing Management of Public Health Risks”** highlighted two types of risks on human health that originate from food supply chains, specifically food safety & adulteration and zoonotic diseases, and how supply chain analytics can inform their management and mitigation. The talk highlighted the importance of wholesale and wet markets in the food system of China and the related risks they pose, with the analysis underscoring the importance of developing better management and monitoring systems of wholesale and wet markets.

Collaboration among different stakeholders and leveraging supply chain analytics and multidisciplinary field research to inform global and local policy are the key to achieve improved management of food safety and zoonotic disease risks. AI-enabled food safety databases will enable new supply chain analytics, risk visualization tools and risk-based regulatory policies; in addition, leveraging technologies (IT-platforms and testing) to create transparency in the supply chain and new management systems of wholesale markets are important.



IAFP Asia-Pacific Moderated Networking

Most exciting of all, a networking session between IAFP affiliates representing Australia, China, Chinese in North America, Japan, Korea, Southeast Asia, Taiwan and Hong Kong introduced the current initiatives undertaken in APAC to promote IAFP’s mandates. Moderated by Convener, Food Safety Consortium (IAFP Hong Kong Affiliate) Professor Terence Lau, IAFP regional affiliates presidents and delegates spoke on the most recent food safety trends and challenges in their region.



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Participating IAFP Regional Affiliate Presidents and Delegates

Moderator
Prof. Terence Lau



Hong Kong Affiliate of



Prof. Xiumei Liu
China Association for Food Protection



Mr. Zengxin Scott Li



Chinese Association for Food Protection in North America
北美華人食品保護協會



Prof. Shige Koseki



IAFP Japan



Dr. Gyun-Hyun Yuk



식품안전 한국식품위생안전성학회
The Korean Society of Food Hygiene and Safety



Dr. C.B. Alvin Lee



Southeast Asia Association for Food Protection



Prof. Lee-Yan Sheen



台灣食品保護協會 (國際食品保護協會-台灣分會)
Taiwan Association for Food Protection
Affiliate of International Association for Food Protection



Dr. David Myatt



Australian Association for Food Protection
An Affiliate of the International Association for Food Protection

Affiliate presidents and delegates are looking forward to the enhanced collaborations among IAFP affiliates. Research projects, activities, educational and scientific events and cross promotions in raising awareness, communication, and information sharing in the region will provide unforeseen synergies in advancing global food safety with concerted efforts.



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Breakout Sessions

Breakout sessions of the conference covered a myriad of topics including the latest food safety and quality issues, evolving trends and innovations to address specific problems, introduction and updates of on-going research, collaborative platforms to foster global partnerships, and other exciting topics related to emerging pathogens, public health, consumer trust, AI and IoT, harmonization, risk management, etc.

traceability
harmonization
challenges pandemic
supply chain analytics
opportunities partnerships
Towards Safer
functional foods
AI Global Food
supply chain challenges
IoT **Supply** enabling technologies opportunities
zoonosis harmonization
COVID-19
consumer trust food safety culture
analytics emerging pathogens
traceability public health
smart food safety risk management

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Breakout Session 1 New Detection Methods

Moderator:
Dr. Tong-Jen Fu
Research Chemical Engineer, U.S. Food and Drug Administration

Speakers:
Dr. Krishna Kumar Ballamoole
Assistant Professor, Nite University Centre for Science Education & Research, Nite University

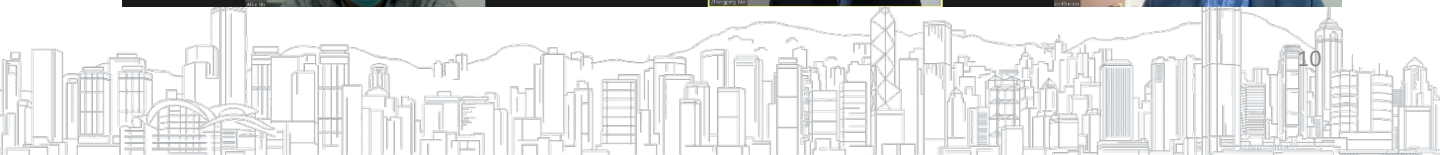
Dr. Yi Chen
Research Microbiologist, U.S. Food and Drug Administration

Prof. Jergen Schlundt
Consultant, Schlundt Consult; Former Director, WHO Department of Food Safety and Zoonoses

Prof. Chia-Yang Chen
Professor and Director, Institute of Food Safety and Health, National Taiwan University

Session 3: Delivering an Effective, Resilient and Sustainable EU-China Food Safety Partnership
建立高效、灵活、可持续发展的中欧食品安全伙伴关系
Prof. Christopher Elliott (Live)

- Can Traceability Systems and Blockchain Technology Ensure Authenticity and Detect Food Fraud? Dr. Peter Olsen (Live)
- Food Fraud and the EU-ChinaSAFE Project: Prof. Saskia van Ruth (V)
- Determination of Eight Bound Nitrofurans Residues, using a Rapid Microwave-assisted Sample Preparation Approach with UHPLC/MS/MS Detection Dr. Martin Danaher (Live)
- How to Improve the Quality and Efficiency of Food Safety Risk Communication in the Era of Digital Media Dr. Si Chen (V)
- Effective Identification of Food Species by Next Generation Sequencing (NGS) Prof. Dr. Ying Chen (V)
- LC-MS Tools in the Campaign against Food Fraud in Infant Formulae Dr. Qi Wu (V) - Newton International Fellow, QUB



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Concluding AFPSIC



Mr. David Tharp
Executive Director of IAFP

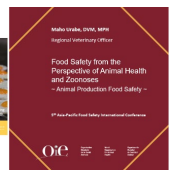


Professor Terence Lau
Chair of the Organizing Committee of AFPSIC

The organizers expressed appreciation towards all speakers, attendees, co-organizers, supporting organizations, sponsors and partners for their joint efforts in making AFPSIC successful under such challenging times. Although held virtually, the conference provided an effective platform for food safety stakeholders to get together and exchange important food safety knowledge and experiences regionally and globally.

2021 will be embraced by even stronger partnerships, extreme resilience, and propagation of ideas and inspirations to advance food safety and quality worldwide.

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Progress and Priorities in the APEC Region



Nicholas Brooke
Principal Advisor to
APEC Policy Partnership on Science, Technology & Innovation (PSTI)
January 2021



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Conference Program

Day 1 [January 27, 2021 (WED)] – Plenary Sessions

09:00 Welcome Remarks

Prof. Terence Lok-ting Lau

Interim Associate Vice President (Innovation and Technology Development), PolyU
Chairman, Organizing Committee of APFSIC 2021
Convener, Food Safety Consortium [IAFP Hong Kong Affiliate]

Prof. Yuk-lam Lo

Chairman, Advisory Council on Food and Environmental Hygiene
Food and Health Bureau, The Government of HKSAR
Honorary President, Hong Kong Food Safety Association

Dr. Roger Cook

President, International Association for Food Protection [IAFP]
Principal Adviser (Strategic Science and Risk Assessment), New Zealand Food Safety,
New Zealand Ministry for Primary Industries

09:15 Keynote Plenary Speeches

Moderator:

Prof. Terence Lok-ting Lau

Interim Associate Vice President (Innovation and Technology Development), PolyU
Chairman, Organizing Committee of APFSIC 2021
Convener, Food Safety Consortium [IAFP Hong Kong Affiliate]

Keynote Plenary Speakers:

COVID-19 and Food Safety

Prof. Junshi Chen

Senior Research Professor and Chief Adviser, China National Center for Food Safety Risk Assessment
FDA's New Era of Smarter Food Safety

Mr. Frank Yiannas

Deputy Commissioner for Food Policy and Response, United States Food and Drug Administration
Food Safety and Latest Regulatory Development in Hong Kong and IT Systems in CFS

Dr. Edwin Lok-kin Tsui

Controller, Centre for Food Safety, The Government of the Hong Kong Special Administrative Region

Q&A



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10:30 Plenary Speeches and Panel Discussion

Session 1 Fostering Food Safety Culture: The Key to Safe Food for Everyone

Moderator:

Ms Cindy Jiang

Senior Director, Global Food Safety Risk Management
Global Supply Chain, McDonald's Corporation

Plenary Speakers and Panelists:

Who Sets the Food Safety Culture within a Food Company? Why it is Important for Food Business?

Mr. Hugo Gutierrez

Global Food Safety and Quality Officer, Kerry Group

Learning and Insights on Elevating Food Safety Culture from the Head Office to Each Retail Store Globally

Dr. Zhinong Yan

Executive Director, Walmart Food Safety Collaboration Center

McDonald's Korea: Elevating Food Safety Culture

Ms Inna Korotenina

Director of Quality Assurance, McDonald's Corporation

Challenges and Opportunities to Maintaining a Food Safety Culture in the Produce Industry

Dr. Tim Jackson

Vice President Food Safety, Regulatory and Social Compliance, Driscoll's of the Americas

Food Safety Culture Excellence

Dr. John Tomlinson

APAC and Global Sales & Marketing Director, BRCGS

Dr. Joanne Taylor

Co-founder, Culture Excellence

Panel Discussion / Q&A

12:00 Invited Lecture

Food Supply Chain Analytics Informing Management of Public Health Risks

Prof. Retsef Levi

J. Spencer Standish (1945) Professor of Operations Management, MIT Sloan School of Management

Q&A

14:00 Keynote Plenary Speech

Moderator:

Dr. Michelle Yeung

Senior Veterinary Officer (Animal Health)
Agriculture, Fisheries and Conservation Department
The Government of the Hong Kong SAR

Keynote Plenary Speakers:

Food Safety from the Perspective of Animal Health and Zoonosis

Dr. Hirofumi Kugita

Regional Representative, World Organisation for Animal Health (OIE)

Dr. Maho Urabe

Regional Veterinary Officer, World Organisation for Animal Health (OIE)

Q&A

Moderator:

Prof. Terence Lok-ting Lau

Interim Associate Vice President (Innovation and Technology Development), PolyU
Chairman, Organizing Committee of APFSIC 2021
Convener, Food Safety Consortium [IAFP Hong Kong Affiliate]

IAFP Regional Affiliate Presidents and Delegates:

Australian Association for Food Protection

Dr. David Myatt

BioMerieux Industrial Microbiology

China Association for Food Protection

Prof. Xiumei Liu

National Institute of Nutrition & Health, China CDC

Chinese Association for Food Protection in North America

Mr. Zengxin Scott Li

Senior Manager for Global Food Safety and Microbiology, Rich Product

IAFP Japan

Prof. Shige Koseki

Professor of Food and Agricultural Process Engineering, Research Faculty of Agriculture
Hokkaido University

The Korean Society of Food Hygiene and Safety

Dr. Gyun-Hyun Yuk

Associate Professor, Department of Food Science and Technology
Korea National University of Transportation

Southeast Asia Association for Food Protection

Dr. C.B. Alvin Lee

Director, Center for Processing Innovation
Associate Professor of Food Science and Nutrition
Institute for Food Safety and Health (IFSH)
Illinois Institute of Technology, Moffett Campus

Taiwan Association for Food Protection

Prof. Lee-Yan Sheen

Distinguished Professor, Institute of Food Science and Technology, National Taiwan University
Director, National Center for Food Safety Education and Research, National Taiwan University
Director, Center for Food and Biomolecules, National Taiwan University

Session 2 Smart Technologies & Innovations

Moderator:

Mr. Yves Rey

Independent Senior Advisor to Industry Leaders,
Former Danone Corporate General Manager
Former GFSI Chairman

Plenary Speakers and Panelists:

Standards & Science & Partnerships

We Need to Dream our Future

Mr. Tom Heilandt

Secretary, FAO/WHO Codex Alimentarius Commission

Progress and Priorities in the APEC Region

Mr. Nicholas Brooke

ABAC Principal Advisor to APEC Policy Partnership on Science Technology and Innovation (PPSTI)

When Food Safety Meets IoT

Prof. Jiannong Cao

Chair Professor of Distributed and Mobile Computing
Department of Computing, PolyU

From Functional Foods to Cultured Meat

Prof. Lorenzo Pastrana

Chair of the Research Office and Group Leader of the Food Processing Group,
International Iberian Nanotechnology Laboratory (INL)

Enabling Technologies for the Enhancement of Food Safety

Mr. Simon Wong

Chief Executive Officer
Logistics and Supply Chain MultiTech R&D Centre

Panel Discussion / Q&A



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<p>17:30</p>	<p>Keynote Plenary Speech</p> <p>Moderator: Ir Prof. Ping-kong Alexander Wai Chairman of Steering Committee, Food Safety Consortium Former Deputy President and Provost Chair Professor of Optical Communications, PolyU President and Vice-Chancellor designate, Hong Kong Baptist University</p> <p>Keynote Plenary Speakers: Controlling COVID-19 Transmission due to Contaminated Imported Frozen Food and Food Packaging Prof. Yongning Wu Chief Scientist, China National Center for Food Safety Risk Assessment Learn, Adapt, and Invent...Moving on Codex in 2021 and Post-COVID-19 Mr. Tom Heilandt Secretary, FAO/WHO Codex Alimentarius Commission</p> <p>Q&A</p>
<p>18:15</p>	<p>Conclusion of Day 1</p> <p>Mr. David W. Tharp Executive Director, International Association for Food Protection</p>



COVID-19 harmonization
 AI consumer trust
 zoonosis opportunities
Towards Safer functional foods
 zoonosis Global Food Supply
 supply chain challenges

food safety culture harmonization
 challenges pandemic supply chain analytics
 partnerships enabling technologies
 risk management traceability IoT
 opportunities emerging pathogens



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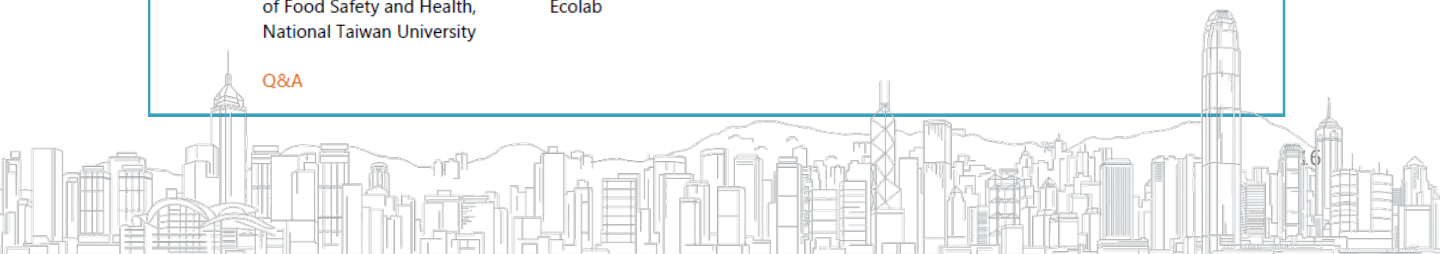
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Day 2 [January 28, 2021 (THUR)] – Breakout Sessions

	Breakout 1 New Detection Methods	Breakout 2 Risk Management Strategies	Breakout 3 EU-China-Safe: Delivering an Effective, Resilient and Sustainable EU-China Food Safety Partnership
	<p>Moderator: Dr. Tong-Jen Fu Research Chemical Engineer U.S. Food and Drug Administration</p>	<p>Moderator: Dr. Bernard Chang Senior Project Fellow, Department of Applied Biology and Chemical Technology, PolyU</p>	<p>Moderator: Prof. Yongning Wu Chief Scientist, China National Center for Food Safety Risk Assessment Coordinator, EU-China-Safe</p>
09:30	<p>Development and Validation of gyrB Targeted SYBR Green Based qPCR Assay for the Specific and Rapid Detection of <i>Vibrio vulnificus</i> in Seafood Dr. Krishna Kumar Ballamoole Assistant Professor, Nitte University Centre for Science Education & Research, Nitte University</p>	<p>Microbial Risk Assessment for Risk Management of <i>Staphylococcus aureus</i> in Ready-to-eat (RTE) Cooked Rice with Pork Floss (CRPF) in Taiwan Prof. Lee-Yan Sheen Distinguished Professor, Institute of Food Science and Technology, National Taiwan University</p>	<p>How to Improve the Quality and Efficiency of Food Safety Risk Communication in the Era of Digital Media Dr. Si Chen Associate Researcher, Division of Risk Communication, China National Center for Food Safety Risk Assessment (CFSA)</p>
09:45	<p>GenomeTrakr and Whole Genome Sequencing Analysis for Source Tracking Foodborne Pathogens during Surveillance and Outbreak Investigations Dr. Yi Chen Research Microbiologist U.S. Food and Drug Administration</p>	<p>Practical Application of Risk Assessment Outcomes in Manufacturing and Retail Settings Helps Ensure Food Safety Dr. Ruth Petran, CFS Principal Ruth Petran Consulting, LLC</p>	<p>Effective Identification of Food Species by Next Generation Sequencing (NGS) Prof. Dr. Ying Chen Vice President Chinese Academy of Inspection and Quarantine (CAIQ)</p>
10:00	<p>The Dramatic New Potential for Genomic Fingerprinting and Sharing of Microbiological DNA Data to Enable Global Surveillance, Source Attribution and Real-time Microbial Identification Prof. Jørgen Schlundt Consultant, Schlundt Consult Former Director, WHO Department of Food Safety and Zoonoses</p>	<p>Current Approaches to Microbial Food Safety Control and Risk Management in Canada Prof. Jeff Farber Adjunct Professor, Department of Food Science, University of Guelph Past President, IAFP</p>	<p>LC-MS Tools in the Campaign against Food Fraud in Infant Formula Dr. Di Wu Newton International Fellow, The Institute for Global Food Security, Queen's University Belfast</p>
10:15	<p>Screening of Chemical Contaminants in Food Using Ultra-high Performance Liquid Chromatography / Quadruple Time-of-flight Mass Spectrometry Prof. Chia-Yang Chen Professor and Director, Institute of Food Safety and Health, National Taiwan University</p>	<p>Food Safety Journey. "Are we there yet?" Dr. Anna Starobin Corporate Scientist, Global QSR and Food Retail Leader of Microbiology, Food Safety and Public Health Ecolab</p>	
	Q&A		



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	Breakout 4 Food Safety at Food Service and Retail Settings	Breakout 5 AI, Machine Learning & Big Data in Food Safety	Breakout 6 Food Safety Training and Certification	Breakout 3a EU-China-Safe: Delivering an Effective, Resilient and Sustainable EU-China Food Safety Partnership
	Moderator: Dr. Ka-sing Leung Adjunct Associate Professor, Department of Applied Biology and Chemical Technology, PolyU	Moderator: Dr. Bernard Chang Senior Project Fellow, Department of Applied Biology and Chemical Technology, PolyU	Moderator: Dr. Tracie Sheehan VP Technical Services Merieux NutriSciences	Moderator: Prof. Christopher Elliott Professor of Food Safety Founder, Institute for Global Food Security, Queen's University Belfast
11:00	Food Safety & Behavior Change: What Happens when No One is Watching? Dr. Audrey Kreske Director Global Food Safety Restaurant Brands International	AI and Science – Making the World's Food Safe Dr. Abigail Stevenson Vice President, Mars Advanced Research Institute at Mars	Food Safety Research and Training in Informal / Wet Markets in Southeast Asia Dr. Hung Nguyen Co-Leader, Animal and Human Health Program Flagship Leader Food Safety, A4NH International Livestock Research Institute	EU-China-safe Delivering an Effective, Resilient and Sustainable EU-China Food Safety Partnership Prof. Christopher Elliott Professor of Food Safety Founder, Institute for Global Food Security, Queen's University Belfast
11:15	Improving the Effectiveness of Food Handlers' Food Hygiene Training: Application of Error Management Theory and Terror Management Theory Dr. Maxime X. Wang Assistant Professor, School of Hotel and Tourism Management, The Hong Kong Polytechnic University	Microbiological Shelf Life Prediction Using AI/ML Dr. James Yuan Senior Director – Data Science & Analytics, Global R&D, PepsiCo	US FSMA Food Safety Preventive Controls Principles and Training Programs Prof. Jason Wan Associate Director – Institute for Food Safety and Health Professor of Food Science Illinois Institute of Technology	Can Traceability Systems and Blockchain Technology Ensure Authenticity and Detect Food Fraud? Dr. Petter Olsen Senior Scientist, Nofima, Norwegian Institute of Fisheries and Food
11:30	Building Trust in Organic - Hong Kong Experience Prof. Jonathan W.C. Wong, MH, JP Hong Kong Organic Resource Centre Professor and Head of Department, Department of Biology, Hong Kong Baptist University	Visual Intelligence for Food Safety Mr. Lie Chen Staff Product Manager, AI Center, DAMO Academy, Alibaba	New Food Safety Certifications under the U.S. FSMA Regulation: A Perspective from a Certification Body and a Qualified Auditor Dr. Tania A. Martinez Regulatory Director - Vice President Demos Global Group, Inc.	Food Fraud and the EUChinaSAFE Project Prof. Saskia van Ruth Professor, Food Authenticity, Wageningen University and Research
11:45	Food Hygiene Standard Certification System Dr. Ka-sing Leung Adjunct Associate Professor, Department of Applied Biology and Chemical Technology, PolyU	Intelligence Track and Trace for Food Supply Chain using Internet-of-Things and Blockchain Mr. Alex Lau Solutions Architect, Cloud Platform, Oracle HK/TW	Intentional Adulteration (IA), Food Defense, and FSMA compliance Prof. Purnendu Vasavada Professor Emeritus University of Wisconsin – River Falls Fellow- ASM, IFT, IAFP PCV & Associates, LLC.	Determination of Eight Bound Nitrofurans Residues, using a Rapid Microwave-assisted Sample Preparation Approach with UHPLC-MS/MS Detection Dr. Martin Danaher Principal Research Officer, TEAGASC Food Research Center of Ireland
	Q&A	Q&A	Q&A	Q&A

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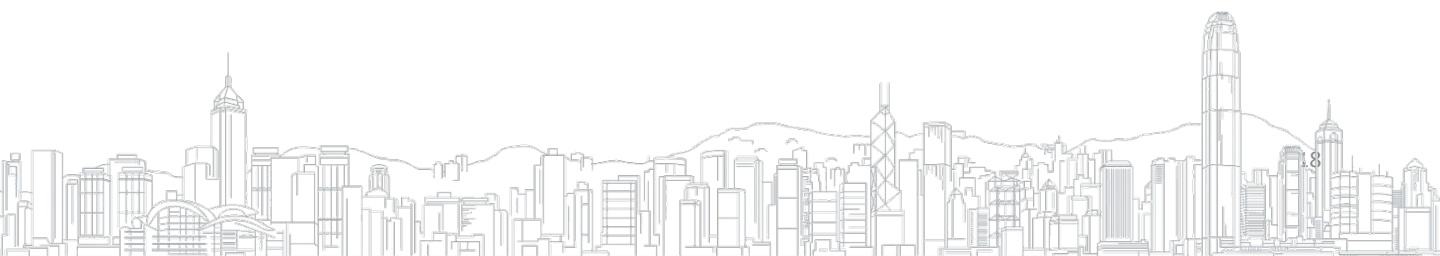
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	Breakout 7 Consumer Communication, Expectations and Insights on Food Safety	Breakout 8 Produce Food Safety	Breakout 9 Emerging Pathogens in Foods & their Control – Global & APAC
	Moderator: Ms. Boey Lau Director of Quality - Southeast Asia, Kerry Group	Moderator: Dr. Elme Coetzer-Boersma Managing Director, GLOBALG.A.P.	Moderator: Dr. Alvin Lee Director, Center for Processing Innovation Associate Professor of Food Science and Nutrition Institute for Food Safety and Health Illinois Institute of Technology
14:30	Meeting Food Risk Communication Challenges from the Asia-Pacific Perspective Dr. Andrew Roberts Risk Communication and Trust Consultant, Food Industry Asia	On-farm Strategies to Prevent Contamination of Produce Dr. Tim Jackson Vice President Food Safety, Regulatory and Social Compliance, Driscoll's of the Americas	Enhanced Formation of Persister Variants in Shiga Toxin-producing <i>Escherichia coli</i> under Conditions Relevant to Produce Production Dr. Michelle Qiu Carter Research Microbiologist U.S. Department of Agriculture
14:45	Empowering Consumer Trust: Food Safety Driven by Data Intelligence Mr. Julian Sin Senior Manager GS1 Hong Kong	Food Safety Risk Management Continuous Improvements – For Fresh Cut Operations Mr. Taymour Shukri QA & HSE Director MENA Del Monte Foods (U.A.E) FZE	Regional Echoes of a Foodborne Outbreak of Invasive Sepsis with <i>Streptococcus agalactiae</i> ST283 Assoc. Prof. Dr. Timothy Barkham Tan Tock Seng Hospital, Singapore and National University of Singapore
15:00	Food Sustainability at a Crossroad: From Marketing to Mattering Ms. Ruby O Director of Environmental, Social and Governance Wynn Macau Wynn Palace	Challenges & Opportunities to Implement Fresh Produce Food Safety Standards in Asia Mr. Pham Viet Anh Technical Key Account Manager Vietnam, GLOBALG.A.P.	Is Aquaculture the Problem or the Solution for Food Security? Prof. Dr. Ruth Zadoks Sydney School of Veterinary Science, Faculty of Science, University of Sydney, Australia; Marie Bashir Institute, University of Sydney; and University of Glasgow
15:15	Q&A	Q&A	Q&A



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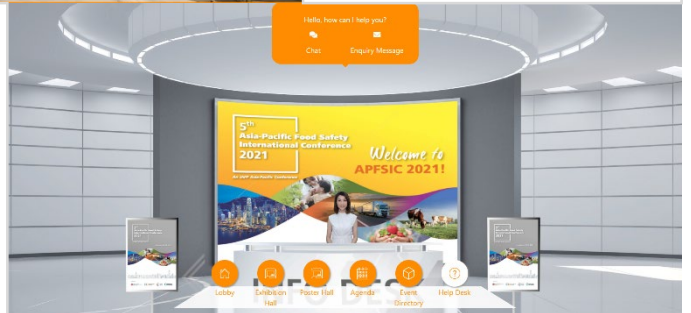


	Breakout 10 DISH Global Centre for Food Safety and Quality	Breakout 11 New Intervention Technologies	Breakout 12 Food Fraud and Authentication
	Moderator: Prof. Terence Lok-ting Lau Interim Associate Vice President (Innovation and Technology Development), PolyU Convener, Food Safety Consortium Founding Chairman, DISH	Moderator: Ms Karen Jiang Assistant Director Innovation and Technology Development Office, PolyU	Moderator: Ms Nelly Lam Senior Manager, Food Safety Consortium Innovation and Technology Development Office, PolyU
16:00	DISH – a Strong Partnership for Current and Future Challenges Prof. Håkan Jönsson Associate Professor Department of Food Technology, Engineering and Nutrition, Lund University Chairman, DISH	High Pressure Processing: Implementation for Milk Mr. Deon Mahoney Head of Food Safety, Produce Marketing Association Australia-New Zealand Limited (PMA A-NZ)	Food Fraud Prevention – Perception and Awareness of Food Document Fraud among Food Industry Representatives Dr. Roy Fenoff Assistant Professor, The Citadel and Michigan State University's Food Fraud Initiative
16:15	EQASIA: Improving the Quality of Bacteriology Diagnostics for AMR in the Asia Region Prof. Rene S. Hendriksen Head of Research Group, Division for Global Surveillance, Research Group for Global Capacity Building, National Food Institute, Technical University of Denmark	Nanocomposite and Natural Materials for Gas Barrier and Food Packaging Dr. Alice Ho Senior Technical Manager Nano and Advanced Materials Institute Ltd	Solving the Problems for Authentication of Edible Oils and Quantitation of Blended Oils Dr. Zhongping Yao Associate Professor, Department of Applied Biology and Chemical Technology, PolyU
16:30	Foodomics and One Health Prof. Francesco Capozzi Full Professor, Department of Agricultural and Food Sciences Head of Interdepartmental Centre for Industrial Agrofood Research, University of Bologna	The Digital Transformation to Remote Auditing Ms. Kathleen Wybourn Director Food & Beverage, Digital Assurance and Supply Chain Services, DNV GL Business Assurance, North America	Food Authenticity Testing using Next Generation Sequencing Dr. Mario Gadanho Senior R&D Scientist Thermo Fisher Scientific
16:45	Q&A	Q&A	Q&A
17:00	Close of Forum Prof. Terence Lok-ting Lau Interim Associate Vice President (Innovation and Technology Development), PolyU Chairman, Organizing Committee of APFSIC 2021 Convener, Food Safety Consortium [IAFP Hong Kong Affiliate]		



Virtual Conference Platform

Exhibition & Poster Halls



Welcome and Opening Speakers



Prof. Terence L. T. Lau
Chairman, Organizing Committee of APFSC 2021
Interim Associate Vice President (Innovation and Technology Development), PolyU
Convener, Food Safety Consortium
Founding Chairman, DISH Global Centre for Food Safety and Quality



Prof. Yuk-lam Lo, B.B.S.
Chairman, Advisory Council on Food and Environmental Hygiene, Food and Health Bureau, The Government of HKSAR
Honorary President, Hong Kong Food Safety Association



Dr. Roger L. Cook
President, International Association for Food Protection
Principal Adviser (Strategic Science and Risk Assessment), New Zealand Food Safety
New Zealand Ministry for Primary Industries

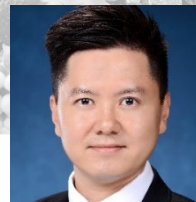
Keynote Plenary Speakers and Moderators



Prof. Junshi Chen
Senior Research Professor and Chief Adviser
China National Centre for Food Safety Risk Assessment



Frank Yiannas
Deputy Commissioner for Food Policy and Response
U.S. Food & Drug Administration



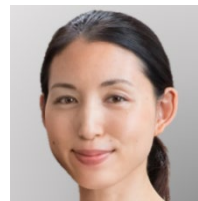
Dr. Edwin Lok-kin Tsui
Controller, Centre for Food Safety,
The Government of the Hong Kong Special Administrative Region



Dr. Michelle Yeung
Senior Veterinary Officer (Animal Health)
Agriculture, Fisheries and Conservation Department
The Government of the Hong Kong SAR



Dr. Hirofumi Kugita
Regional Representative
World Organisation for Animal Health (OIE)
Regional Representation for Asia and the Pacific



Dr. Maho Urabe
Regional Veterinary Officer
World Organisation for Animal Health (OIE)
Regional Representation for Asia and the Pacific



Ir Prof. Alex Wai
Chairman of Steering Committee, Food Safety Consortium
Former Deputy President and Provost, PolyU
President and Vice-Chancellor designate, Hong Kong Baptist University



Tom Heilandt
Secretary
FAO/WHO
Codex Alimentarius Commission



Prof. Wu Yongning
Chief Scientist
China National Center for Food Safety Risk Assessment



Distinguished Speakers, Panelists, & Moderators



Mr. Pham Viet Anh
Technical Key Account Manager
Vietnam
GLOBALG.A.P.



Dr. Krishna Kumar Ballamoole
Assistant Professor,
Nitte University Center for Science Education
& Research
Nitte University



Assoc. Prof. Dr. Timothy Barkham
Tan Tock Seng Hospital, Singapore
National University of Singapore



Dr. Elme Coetzer-Boersma
Managing Director
GLOBALG.A.P.



Mr. Nicholas Brooke
ABAC Principal Advisor to APEC Policy
Partnership on Science, Technology and
Innovation (PPSTI)



Prof. Jiannong Cao
Chair Professor of Distributed and
Mobile Computing,
Department of Computing
The Hong Kong Polytechnic University



Prof. Francesco Capozzi
Full Professor, Department of Agricultural
and Food Sciences
Head of Interdepartmental Centre for
Industrial Agrofood Research
University of Bologna



Dr. Michelle Qiu Carter
Research Microbiologist
U.S. Department of Agriculture



Dr. Bernard Chang
Senior Project Fellow,
Department of Applied Biology and
Chemical Technology
The Hong Kong Polytechnic University



Prof. Chia-Yang Chen
Professor and Director,
Institute of Food Safety and Health
National Taiwan University



Mr. Lie Chen
Staff Product Manager, AI Center
DAMO Academy, Alibaba



Dr. Si Chen
Associate Researcher,
Division of Risk Communication
China National Center for
Food Safety Risk Assessment (CFSA)



Dr. Yi Chen
Research Microbiologist
U.S. Food and Drug Administration



Prof. Dr. Ying Chen
Vice President
China Academy of
Inspection and Quarantine



Dr. Martin Danaher
Principal Research Officer
TEAGASC Food Research Center of Ireland



Prof. Christopher Elliott
Professor of Food Safety
Founder, Institute for Global Food Security,
Queen's University Belfast



Prof. Jeff Farber
Adjunct Professor,
Department of Food Science,
University of Guelph
Past President, IAFF



Dr. Roy Fenoff
Assistant Professor
The Citadel and Michigan State University's
Food Fraud Initiative



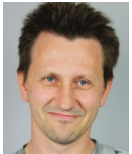
Dr. Tong-Jen Fu
Research Chemical Engineer
U.S. Food and Drug Administration



Dr. Mario Gadanho
Senior R&D Scientist
Thermo Fisher Scientific



Mr. Hugo Gutierrez
Global Food Safety and Quality Officer
Kerry Group



Prof. Rene S. Hendriksen
Head of Research Group,
Division for Global Surveillance
Research Group for Global
Capacity Building
National Food Institute,
Technical University of Denmark



Dr. Alice Ho
Senior Technical Manager
Nano and Advanced Materials
Institute Limited



Dr. Tim Jackson
Vice President Food Safety,
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Driscoll's of the Americas



Ms. Cindy Jiang
Senior Director, Global
Food Safety Risk Management
Global Supply Chain,
McDonald's Corporation



Ms. Karen Jiang
Assistant Director,
Innovation and Technology
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The Hong Kong Polytechnic University



Prof. Håkan Jönsson
Associate Professor
Department of Food Technology,
Engineering and Nutrition,
Lund University
Chairman, DISH



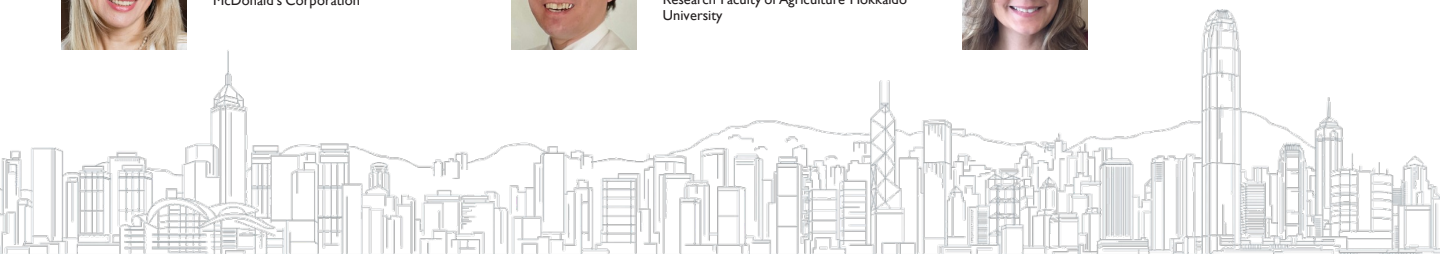
Ms. Inna Korotenina
Director of Quality Assurance
McDonald's Corporation



Prof. Shige Koseki
Professor of Food and Agricultural
Process Engineering,
Research Faculty of Agriculture Hokkaido
University



Dr. Audrey Kreske
Director, Global Food Safety
Restaurant Brands International



Distinguished Speakers, Panelists, & Moderators



Ms. Nelly Lam
Senior Manager,
Food Safety Consortium
Innovation and Technology
Development Office,
The Hong Kong Polytechnic University



Mr. Alex Lau
Solutions Architect,
Cloud Platform
Oracle HK/TW



Ms. Boey Lau
Director of Quality – Southeast Asia,
Kerry Group



Dr. Alvin Lee
Director, Center for Processing Innovation
Associate Professor of Food Science and
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Institute for Food Safety and Health, Illinois
Institute of Technology, Moffett Campus



Dr. Ka-sing Leung
Adjunct Associate Professor,
Department of Applied Biology
and Chemical Technology
The Hong Kong Polytechnic University



Prof. Retsef Levi
J. Spencer Standish (1945) Professor of
Operations Management
MIT Sloan School of Management



Mr. Zengxin Scott Li
Senior Manager for Global Food Safety
and Microbiology,
Rich Product



Prof. Xiumei Liu
Chief Scientist and Professor
National Institute of Nutrition and Food
Safety
Chinese Center for Disease Control and
Prevention



Mr. Deon Mahoney
Head of Food Safety
Produce Marketing Association
Australia-New Zealand Limited (PMA-A-NZ)



Dr. Tania A. Martinez
Regulatory Director – Vice President
Demos Global Group, Inc.



Dr. David Myatt
Director for Digital Transformation &
Communications, Industrial Microbiology /
Asia Pacific
bioMérieux Industrial Microbiology



Dr. Hung Nguyen
Co-Leader, Animal and Human
Health Program
Flagship Leader Food Safety, A4NH
International Livestock Research Institute



Ms. Ruby O
Director of Environmental,
Social and Governance
Wynn Macau | Wynn Palace



Dr. Petter Olsen
Senior Scientist
Nofima, Norwegian Institute of
Fisheries and Food



Prof. Lorenzo Pastrana
Chair of the Research Office and
Group Leader of the Food
Processing Group
International Iberian
Nanotechnology Laboratory (INL)



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Principal
Ruth Petran Consulting, LLC



Mr. Yves Rey
Independent Senior Advisor to
Industry Leaders
Former Danone Corporate
General Manager
Former GFSI Chairman



Dr. Andrew Roberts
Risk Communication and
Trust Consultant
Food Industry Asia



Prof. Saskia van Ruth
Professor, Food Authenticity
Wageningen University and Research



Prof. Jørgen Schlundt
Consultant, Schlundt Consult
Former Director,
WHO Department of Food
Safety and Zoonoses



Dr. Tracie Sheehan
VP Technical Services
Merieux NutriSciences



Prof. Lee-Yan Sheen
Distinguished Professor,
Institute of Food Science
and Technology
National Taiwan University



Mr. Taymour Shukri
QA & HSE Director MENA
Del Monte Foods (U.A.E) FZE



Mr. Julian Sin
Senior Manager
GSI Hong Kong



Dr. Anna Starobin
Corporate Scientist,
Global QSR and Food Retail
Leader of Microbiology,
Food Safety and Public Health
Ecolab



Dr. Abigail Stevenson
Vice President
Mars Advanced Research Institute,
Mars



Dr. Joanne Taylor
Co-founder
Culture Excellence



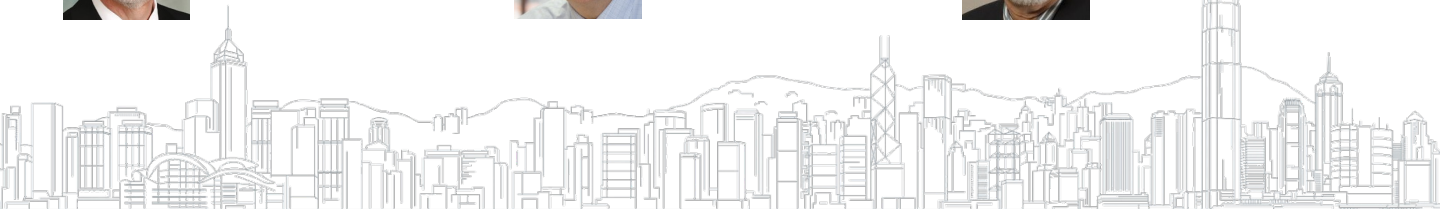
Mr. David W. Tharp
Executive Director
International Association
for Food Protection



Dr. John Tomlinson
APAC and Global Sales &
Marketing Director
BRCGS



Prof. Purnendu Vasavada
Professor Emeritus,
University of Wisconsin – River Falls
Fellow - ASM, IFT, IAFP
PCV & Associates, LLC



Distinguished Speakers, Panelists, & Moderators



Prof. Jason Wan
Associate Director -
Institute for Food Safety and Health
Professor of Food Science
Illinois Institute of Technology



Dr. Maxime X. Wang
Assistant Professor,
School of Hotel and Tourism
Management
The Hong Kong Polytechnic University



**Prof. Jonathan W.C. Wong,
MH, JP**
Hong Kong Organic Resource Centre
Professor and Head of Department,
Department of Biology
Hong Kong Baptist University



Mr. Simon Wong
Chief Executive Officer
Logistics and Supply Chain
MultiTech R&D Centre



Dr. Di Wu
Newton International Fellow
The Institute for Global Food Security,
Queen's University Belfast



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Director, Food & Beverage
Digital Assurance and
Supply Chain Services
DNV GL – Business Assurance,
North America



Dr. Zhinong Yan
Executive Director
Walmart Food Safety
Collaboration Center



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Associate Professor,
Department of Applied Biology and
Chemical Technology
The Hong Kong Polytechnic University



Dr. James Yuan
Senior Director – Data Science & Analytics
Global R&D, PepsiCo



Dr. Gyun-Hyun Yuk
Associate Professor,
Department of Food Science and
Technology
Korea National University of Transportation



Prof. Dr. Ruth Zadoks
Sydney School of Veterinary Science, Faculty
of Science, University of Sydney, Australia
Marie Bashir Institute, University of Sydney;
and University of Glasgow

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Food Safety Consortium, PolyU

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Illinois Institute of Technology

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IAFFP Japan



Southeast Asia Association for
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Taiwan Association for Food Protection
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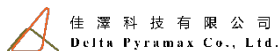
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With the vision to excel in professional education, applied research and partnership for the betterment of Hong Kong, the nation and the world, The Hong Kong Polytechnic University [PolyU] is highly committed to knowledge transfer. We strive to accelerate the translation of academic discoveries into real-world applications in collaboration with industrial and commercial sectors with our expertise, state-of-the-art technology and resources.



Food Safety
Consortium
食品安全聯盟

The FSC is convened by PolyU with the aim of engaging stakeholders from the academia, industry and other organizations to tackle food safety and related matters with cutting-edge and applied technologies. We create an industry network and provide support to industry with PolyU's applied technology portfolio and enhance the capability and competence on food safety and its related technology development through academic and industrial collaborations.



Innovation and Technology
Development Office
創新及科技發展處

ITDO serves as PolyU's platform to foster high-impact research collaboration with local and international parties including universities, industry, governments through the formation of strategic alliances on technology development in addressing global unmet needs through innovation. We also strive to heighten the awareness of the significance and protection of intellectual properties.



International Association for
Food Protection.

IAFP provides food safety professionals with a forum to exchange information on protecting the food supply. This is achieved through two monthly journals; the Journal of Food Protection and Food Protection Trends, an online newsletter titled the IAFP Report and through an Annual Meeting in North America. IAFP also holds a symposium in Europe each year and an annual, international symposium in addition to supporting food safety events in Dubai and China. Membership can be obtained at our Website at www.foodprotection.org.



Food Safety Consortium [FSC] - Addressing Unmet Food Safety Needs through Innovation

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