### Wednesday, December 7, 2022

**09:00-10:30**  
**Room 9**

**[SY(T8)1] Contribution of agriculture to health promotion**  
Chairs: Makiko Sekiyama, National Institute for Environmental Studies, Japan  
Kazuaki Tsuchiya, National Institute for Environmental Studies, Japan

- Urban allotment gardening and its impact on human health and wellbeing  
  - Masashi Soga  
  - The University of Tokyo, Japan
- The Japanese preference for collaborations between citizen's farms and food-support organizations  
  - Kiyo Kurisu  
  - The University of Tokyo, Japan
- Linkages between dietary diversity of farmers and agriculture in West Java, Indonesia  
  - Kazuaki Tsuchiya  
  - National Institute for Environmental Studies, Japan
- Nutrient deficiency in children in the deforested front of Cambodia in relation to different food sources  
  - Takuya Furukawa  
  - Forestry and Forest Products Research Institute, Japan

**13:15-15:15**  
**Room 9**

**[SY(T8)2] Nourishing the future: the role of fish and fishery products for improved food and nutrition security in developing countries**  
Chairs: Nobuyuki Yagi, The University of Tokyo, Japan  
Shakuntala Haraksingh Thilsted, WorldFish, Malaysia

- Small-scale fisheries and aquaculture that contribute to the local needs on human nutrition in developing countries  
  - Nobuyuki Yagi  
  - The University of Tokyo, Japan
- JICA's support for the fisheries and aquaculture sector and its contributions to food and nutrition security in developing countries  
  - Shunji Sugiyama  
  - Japan International Cooperation Agency, Japan
- Transforming food systems with aquatic foods for healthier people and planet  
  - Shakuntala Haraksingh Thilsted  
  - WorldFish, Malaysia
- Contribution of fish to the diets of low-income households  
  - Anna Lartey  
  - University of Ghana, Ghana
- Fishing for Complements: How Aquaculture Helps Improve Diet Quality among the Poor  
  - Patrick Webb  
  - Tufts University, USA
- Dimensions of the Food Environment to consider when promoting fish and other aquatic foods in low- and middle-income countries  
  - Gina Kennedy  
  - USAID Advancing Nutrition, JSI, USA
- Household engagement with aquaculture-horticulture is associated with better diet quality  
  - Rumana Akter  
  - Save the Children, Bangladesh

### Thursday, December 8, 2022

**09:00-10:30**  
**Room 3**

**[SY(T8)3] Novel functionalities of seafoods**  
Chairs: Tatsuya Sugawara, Kyoto University, Japan  
Shiguo Chen, Zhejiang University, China

- 1-Deoxysphingolipids and their analogs in foods: the occurrence and potential impact on human health  
  - Jingjing Duan  
  - Nanchang University, China
- Structure and function of fucosylated chondroitin sulfate from sea cucumber  
  - Shiguo Chen  
  - Zhejiang University, China
- Dietary fish protein improves skeletal muscle weight  
  - Taro Kishida  
  - Ehime University, Japan
- Nutraceutical potential of siphinaxanthin, a green algal carotenoid  
  - Tatsuya Sugawara  
  - Kyoto University, Japan
### Thursday, December 8, 2022

**13:15-15:15    Room 9**

**[SY(T8)4]** Food metabolomics  
Chair: Akira Oikawa, Kyoto University, Japan

- **Metabolomics as a generic tool to help us understand food quality**  
  Robert David Hall  
  Wageningen University & Research, Netherlands

- **Metabolomics approach for durian orchards towards innovative products**  
  Supaart Sirikantaramas  
  Chulalongkorn University, Thailand

- **Mass spectrometry based metabolomics for quality improvement of high value food products**  
  Sastia Prama Putri  
  Osaka University, Japan

- **Comprehensive analysis of aroma components and metabolites in alcoholic beverages**  
  Katsura Sekiguchi  
  Agilent Technologies, Japan

### Friday, December 9, 2022

**09:00-10:30   Room 9**

**[SY(T8)5]** Mass spectrometry in food quality  
Chair: Nobuhiro Zaima, Kindai University, Japan

- **Profile of Human Milk Oligosaccharides and Changes over 52 weeks in Healthy Taiwanese Mothers**  
  Ting-Jang Lu  
  National Taiwan University, Taiwan

- **Determination of triacylglycerol oxidation mechanisms using liquid chromatography-tandem mass spectrometry**  
  Shunji Kato  
  Tohoku University, Japan

- **Visualization of functional food factors by matrix-assisted laser desorption/ionization imaging mass spectrometry**  
  Nobuhiro Zaima  
  Kindai University, Japan

- **Molecular species analysis of sphingolipids from marine invertebrates**  
  Jie Xu  
  Ocean University of China, China

**13:15-15:15   Room 9**

**[SY(T8)6]** Lipid molecular assemblies: Structure, digestion, absorption and application as delivery carrier  
Chair: Yasuki Matsumura, Kyoto University, Japan

- **Poly(D, L-lactide-co-glycolide)-phospholipid nanocarrier for efficient delivery of carotenoids**  
  Baskaran Vallikannan  
  CSIR-Central Food Technological Research Institute, India

- **Characteristics of fine lipid particles enhancing absorption of dietary lipophilic compounds**  
  Kaeko Murota  
  Shimane University, Japan

- **Colloidal aspects underpinning the digestion of lipid delivery systems**  
  Pete Wilde  
  Quadram Institute Bioscience, UK

- **Structure and functions of Lipid Droplets/Oleosomes**  
  Costas Nikiforidis  
  Wageningen University and Research, Netherlands

- **Microchannel Emulsification Technology for Dilute and Concentrated Oil-in-Water Emulsions**  
  Mitsutoshi Nakajima  
  University of Tsukuba, Japan
### [SY(T8)7] Integrative approaches of bioassay and computational analysis for discovering potential bioactive compounds and predictive toxicity

**Chairs:** Hideko Sone, Yokohama University of Pharmacy, Japan  
Kohsuke Hayamizu, Yokohama University of Pharmacy, Japan

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<thead>
<tr>
<th>Topic</th>
<th>Speaker</th>
<th>Institution</th>
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<tbody>
<tr>
<td>Chemoprevention by vitamin A and its derivatives</td>
<td>Xian-Yang Qin</td>
<td>RIKEN, Japan</td>
</tr>
<tr>
<td>Toxicity prediction of natural compounds</td>
<td>Kohsuke Hayamizu</td>
<td>Yokohama University of Pharmacy, Japan</td>
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<td>StemPanTox: a fast and wide-target drug assessment system using ES and IPS cells.</td>
<td>Wataru Fujibuchi</td>
<td>Nippon Shinyaku Co., Ltd., Japan</td>
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<td>Food ingredients controlling cell differentiation and histone modifications</td>
<td>Yoichi Nakao</td>
<td>Waseda University, Japan</td>
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### [SY(T8)8] Fruit and vegetables for sustainable healthy diets (FRESH)

Organized by International Food Policy Research Institute (IFPRI), CGIAR

**Chairs:** Deanna K Olney, International Food Policy Research Institute, USA  
Ravi Gopal Singh, International Maize and Wheat Improvement Center (CIMMYT), Mexico

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<tr>
<th>Topic</th>
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<tbody>
<tr>
<td>FRESH: A Global Fruit and Vegetable Research Initiative</td>
<td>Deanna K Olney</td>
<td>International Food Policy Research Institute, USA</td>
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<tr>
<td>The use of fruit and vegetables to generate income, improve diets and mitigate climate risks: a review of the evidence</td>
<td>Pepijn Schreinemachers</td>
<td>World Vegetable Center, Thailand</td>
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<tr>
<td>Sustainable intensification for safe food production</td>
<td>Ravi Gopal Singh</td>
<td>International Maize and Wheat Improvement Center (CIMMYT), Mexico</td>
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<td>Low cost interventions in value chains can reduce postharvest waste of fruits and vegetables</td>
<td>Emma Ruth V Bayogan</td>
<td>University of the Philippines, Philippines</td>
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<td>Creating food environments to support fruit and vegetable-rich diets</td>
<td>Neha Kumar</td>
<td>International Food Policy Research Institute, USA</td>
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<td>Intake of fruit and vegetables among men and women in rural Sri Lanka</td>
<td>Renuka Silva</td>
<td>Wayamba University of Sri Lanka, Sri Lanka</td>
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### [SY(T8)9] Food safety

**Chair:** Yukiko Yamada, Azabu University / International Food Safety Consultant / National Institute of Health Sciences, Japan

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<tbody>
<tr>
<td>Challenges and opportunities for Codex Texts on Nutrition</td>
<td>Tom Heilandt</td>
<td>FAO, Italy</td>
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<td>Risk management for microbial hazards in foods</td>
<td>Yoshimasa Sasaki</td>
<td>National Institute of Health Sciences, Japan</td>
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<td>Precision food safety - using whole genome data to inform risk assessment in food safety -</td>
<td>Seamus Fanning</td>
<td>University College Dublin, Ireland</td>
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<td>U.S. Food and Drug Administration Activities to Address Chemical Contaminants in Food</td>
<td>Paul South</td>
<td>U.S. Food and Drug Administration, USA</td>
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<td>Excess intake of micronutrients: evaluating the risks for human health</td>
<td>Agnes de Sesmaisons Lecarre</td>
<td>European Food Safety Authority, Italy</td>
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<td>09:00-10:30</td>
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<td><strong>[SY(T8)10] The “Nutrient-Repositioning” -Unexpected amino acid functions -</strong></td>
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<td><strong>Overview: The “Nutrient-Repositioning” -Unexpected Amino Acid Functions -</strong></td>
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<td><strong>Assessment of histidine-associated pathophysiology in leukemia patients and mouse models</strong></td>
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<td><strong>Effects of food ingredients on back pain and knee pain</strong></td>
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**Chairs:** Yasuyuki Kitaura, Nagoya University, Japan

**Kohsuke Hayamizu**, Yokohama University of Pharmacy, Japan