### Wednesday, December 7, 2022

#### 09:00-10:30  Room 6

**[SY(T2)1] The nutritional significance of dietary choline**

**Chairs:** Takeshi Ohkubo, Sendai Shirayuri Women's College, Japan  
Yutaka Miura, Tokyo University of Agriculture and Technology, Japan

- **The nutritional significance of dietary choline -Introduction-**
- **Current situation of dietary choline in Japan.**
- **Precision Nutrition: Lessons from studies on the nutrient choline.**
- **TBD**

#### 13:15-15:15  Room 6

**[SY(T2)2] Assessment and treatment of eating disorders**

**Chairs:** Koutatsu Maruyama, Ehime University, Japan  
Toshihiko Nagata, Mental Health Clinic of Dr. Nagata in Nanba, Japan

- **Assessment of reward system among individuals with eating disorders**
- **Assessment of nutritional status and psychopathology in the treatment of eating disorders with different duration of illness**
- **Assessment of stage of change and intervention strategies**
- **Assessment and treatment of refeeding phases in eating disorders.**

#### 18:30-20:00  Room 11

**[SY(T2)3] Nutrition Profiling Systems: Challenges and Opportunities for Precision Nutrition**

**Organized by Tokyo Foundation for Policy Research and National Institute of Health and Nutrition**

**Chair:** Kenji Shibuya, Tokyo Foundation for Policy Research, Japan

- **Developing a Food Compass system in Japan**
- **Food Compass: development and predictive validation of a nutrient profiling system using expanded characteristics for assessing the healthfulness of foods**
- **Construction of a database of functional components in foods related to our health**

**Conclusion**

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**Yutaka Miura**  
Tokyo University of Agriculture and Technology, Japan

**Takeshi Ohkubo**  
Sendai Shirayuri Women's College, Japan

**Steven H Zeisel**  
University of North Carolina at Chapel Hill, USA

**Masanori Isobe**  
Kyoto University Hospital, Japan

**Shu Takakura**  
Kyushu University Hospital, Japan

**Hisashi Yamada**  
Hyogo College of Medicine, Japan

**Kazuhiro Yoshiuchi**  
The University of Tokyo, Japan

**Shuhei Nomura**  
Keio University, Japan

**Meghan O'Hearn**  
Tufts Friedman School of Nutrition Science and Policy, USA

**Mari Maeda-Yamamoto**  
National Food and Agriculture Research Organization, Japan

**Shoichiro Tsugane**  
National Institutes of Biomedical Innovation, Health and Nutrition, Japan
Thursday, December 8, 2022

09:00-10:30    Room 6

[SY(T2)4] Recent developments in nutrition surveys: self-report-based assessment tools are still invaluable
Chair: Kentaro Murakami, The University of Tokyo, Japan

Intake24, an online self-report 24-hour dietary recall: its development, validity and future directions
Ashley J. Adamson
Newcastle University, UK

Understanding eating patterns: the potential of a smartphone food diary application in nutrition research
Sarah A McNaughton
Deakin University, Australia

Development of self-administered dietary questionnaires specially designed for measuring meal-specific dietary intakes and eating patterns
Kentaro Murakami
The University of Tokyo, Japan

13:15-14:45    Room 2

[SY(T2)5] Moving towards global harmonization of approaches to deriving NRVs
Organized by American Society for Nutrition (ASN)
Chair: Lindsay Allen, USDA - U.S. Department of Agriculture, USA

Welcome
John Courtney
American Society for Nutrition, USA

Overview of Harmonization of a Global Process for Setting Nutrient Reference Values
Lindsay Allen
USDA - U.S. Department of Agriculture, USA

The Southeast Asia Model for Harmonizing the Process for Setting Nutrient Reference Values
Emorn Udomkesmalee
Institute of Nutrition, Mahidol University, Thailand

A Path Forward and What’s Needed for a Country to Get There
Anura Kurpad
St John’s Medical College, India

Building an international partnership to support global harmonization of nutrient reference values
Anna Lartey
University of Ghana, Ghana

13:15-15:15    Room 6

SY(T2)6] Physiological functions of proteinogenic amino acid
Co-organized by International Council on Amino Acid Science of Japan / Japanese Society for Amino Acid Sciences
Chairs: Shigeki Furuya, Kyushu University, Japan
Tsutomu Fukuwatari, The University of Shiga Prefecture, Japan

Role of serine in brain function
Gilles Bonvento
University Paris-Saclay/CNRS/CEA, France

Histidine-derived microbial metabolites in diabetes and drug responses
Ara Koh
Pohang University of Science and Technology (POSTECH), Korea

Toward social impact outcome beyond scientific glutamate research
Hisayuki Uneyama
Ajinomoto Co., Inc., Japan

The Tryptophan-Kynurenine pathway in the control of energy metabolism.
Jorge Lira Ruas
Karolinska Institutet, Sweden
### Friday, December 9, 2022

#### Room 6

**09:00-10:30**

**[SY(T2)7] Physiological functions of non-proteinogenic amino acid**

*Co-organized by Japanese Society for Amino Acid Sciences / International Council on Amino Acid Science of Japan*

**Chairs:** Yasutomi Kamei, Kyoto Prefectural University, Japan  
Fumiaki Yoshizawa, Utsunomiya University, Japan

- **Non-proteinogenic amino acids in sarcopenia**  
  Sue-Joan Chang  
  National Cheng Kung University, Taiwan

- **Regulation of gene expression and cell function by taurine**  
  Hideo Satsu  
  Maebashi Institute of Technology, Japan

- **L-Citrulline promotes the neurovascular unit function and brain health**  
  Kohji Fukunaga  
  Tohoku University, Japan

#### 13:15-15:15

**[SY(T2)8] Technology innovations in dietary intake and physical activity assessment and intervention**

**Chairs:** Satchidananda Panda, The Salk Institute for Biological Studies, USA  
Guy Plasqui, Maastricht University, Netherlands

- **myCircadianClock – a smartphone app to monitor and optimize daily eating patterns**  
  Satchidananda Panda  
  The Salk Institute for Biological Studies, USA

- **Assessment of total energy expenditure and physical activity using activity monitors**  
  Guy Plasqui  
  Maastricht University, Netherlands

- **Dietary improvement using a self-monitoring device for urinary sodium-to-potassium ratio**  
  Atsushi Hozawa  
  Tohoku University, Japan

- **Prevention of Worsening Diabetes through Behavioral Changes by an IoT-based Self-Monitoring System in Japan (PRISM-J)**  
  Ryotaro Bouchi  
  National Center for Global Health and Medicine, Japan

### Saturday, December 10, 2022

#### Room 4

**09:00-10:30**

**[SY(T2)9] Strength and limitation of dietary assessment for international collaborative pooled analysis of cohort studies**

**Chairs:** Ryoko Katagiri, National Institute of Health and Nutrition, Japan  
Koutatsu Maruyama, Ehime University, Japan

- **Challenges for nutritional epidemiological research in the consortium of prospective cohort studies in Asian countries**  
  Ryoko Katagiri  
  National Institute of Health and Nutrition, Japan

- **Opportunities and challenges of international collaborative pooled analysis of dietary cohort studies**  
  Jung Eun Lee  
  Seoul National University, Korea

- **Methods for pooling epidemiologic studies: the Pooling Project of Prospective Studies of Diet and Cancer**  
  Stephanie Smith-Warner  
  Harvard T.H. Chan School of Public Health, USA
**Saturday, December 10, 2022**

**13:15-15:15 Room 4**

[SY(T2)10] Lessons from the European Prospective Investigation into Cancer and Nutrition (EPIC) study for the development of cross-country nutritional epidemiologic research in East Asia

*Chairs: Heiner Boeing, Federation of European Nutrition Societies, Germany*
  *Kentaro Murakami, The University of Tokyo, Japan*

- A brief overview of EPIC: its rationale, dietary assessment methodology and key achievements
- How different are dietary habits and eating patterns between East Asian and European countries? Findings from Japan
- WHAT WE CAN LEARN FROM EPIC: A VISION FOR EAST-ASIA COLLABORATION FROM THE EUROPEAN EXPERIENCE
- Potential barriers and opportunities for the development of cross-country nutritional epidemiologic research in East Asia: Experience in Singapore

**13:15-14:45 Room 10**

[SY(T2)11] WHO/CDC open symposium: Progress review of the WHO guideline update on the use of haemoglobin concentrations for assessing anaemia status in individuals and populations

*Organized by World Health Organization / US Centers for Disease Control and Prevention*

*Chairs: Maria Elena D Jefferds, US Centers for Disease Control and Prevention, USA*
  *Lisa Rogers, World Health Organization, Switzerland*

- WHO project: Use and interpretation of haemoglobin concentrations for assessing anaemia status in individuals and populations
- Variability in haemoglobin concentration by blood source and analytical devices
- Hemoglobin corrections for elevation and smoking
- Additional factors influencing haemoglobin thresholds to define anaemia

**Sunday, December 11, 2022**

**09:00-10:30 Room 6**

[SY(T2)12] New evidence of physiologically based serum ferritin thresholds for iron deficiency in healthy young children and women

*Organized by US Centers for Disease Control and Prevention*

*Chair: Maria Elena D Jefferds, US Centers for Disease Control and Prevention, USA*

- Iron metabolism and physiologically based approaches to identify serum ferritin thresholds to define iron deficiency.
- Comparison of physiologically based ferritin thresholds for iron deficiency in healthy young children with current World Health Organization (WHO) guidelines
- Comparison of physiologically based ferritin thresholds for iron deficiency in healthy non-pregnant women aged 15-49 y with current World Health Organization (WHO) guidelines
- Threshold ferritin and hepcidin concentrations indicating early iron deficiency in healthy infants and young women based on upregulation of iron absorption
- Reflections on new evidence to inform serum ferritin thresholds for assessing iron status

*Gary M Brittenham, Columbia University, USA*
*Zuguo Mei, US Centers for Disease Control and Prevention, USA*
*Yaw Addo, US Centers for Disease Control and Prevention, USA*
*Michael B Zimmermann, ETH Zurich, Switzerland*
*Lisa Rogers, World Health Organization, Switzerland*