Program (May 15)

May 15 (Friday)

10:00-11:30  Symposium 01
New Insights in Vitamin Metabolism and Function  Room: 303

Chairperson: Katsumi Shibata (The University of Shiga Prefecture, Japan)

SY01-01  Regulation of Folate-mediated One-carbon Metabolism by Methylene tetrahydrofolate Reductase (MTHFR) and Glycine N-methyltransferase (GNMT)
En-Pei Chiang¹, Yi-Cheng Wang¹, Ming-Tsung Wu¹, Yu-Hsuan Huang¹, Tang Feng-Yao², Yi-Ming Chen³
¹National Chung Hsing University, Taiwan, ²China Medical University, Taiwan, ³Kao-Hsiung Medical University, Taiwan

SY01-02  Vitamin C study using SMP30/GNL knockout mice
Akihito Ishigami
Tokyo Metropolitan Institute of Gerontology (TMIG), Japan

SY01-03  Truly niacin deficiency in quinolinic acid phosphoribosyltransferase (QPRT) knockout mice
Katsumi Shibata
The University of Shiga Prefecture, Japan

10:00-11:30  Symposium 02
Basic and Clinical Aspects of Amino Acid Sciences  Room: 414+415

Co-organized by: Japanese Society for Amino Acid Sciences (JSAAS), International Council on Amino Acid Science (ICAAS) Japan

Chairperson: Yoshiharu Shimomura (Nagoya University, Japan)
Kazuhiko Fukatsu (University of Tokyo Hospital, Japan)

SY02-01  Novel Physiological Functions of Branched-chain Amino Acids
Yoshiharu Shimomura
Nagoya University, Japan

SY02-02  The amino acids intake can alleviate fatigue during exercise
Kiwon Lim¹, Jonghoon Park¹
¹Konkuk University, Korea, ²Physical Activity & Performance Institute, Korea

SY02-03  Molecular mechanism of gene expression in skeletal muscle function and amino acid metabolism
Yasutomi Kamei¹, Shinji Miura², Yoshihiro Ogawa³
¹Kyoto Prefectural University, Japan, ²University of Shizuoka, Japan, ³Tokyo Medical and Dental University, Japan

SY02-04  Peri-operative care for gastrectomy to enhance recovery
Ming-Tsan Lin
National Taiwan University Hospital, Taiwan

10:00-12:00  Symposium 03
Asian Herbal and Medicinal Food for the Prevention of Lifestyle-related Diseases  Room: 416+417

Chairperson: Taiichiro Seki (Nihon University, Japan)
Tatsuo Watanabe (University of Shizuoka, Japan)

SY03-01  Asian herbal and medicinal food for the prevention of life style-related diseases
Taiichiro Seki
Nihon University, Japan

SY03-02  Metabolomics of garlic against fatty liver in mice
Lee-Yan Sheen
National Taiwan University, Taiwan

SY03-03  Anti-atherogenic effects of kimchi and its ingredients
Yeong Ok Song¹, Hyun Ju Kim²
¹Pusan National University, Korea, ²World Institute of Kimchi, Korea
**Program (May 15)**

**SY03-04**  
**Food compounds activating thermosensitive TRP channels in Asian herbal and medicinal foods**  
Tatsuo Watanabe  
University of Shizuoka, Japan

**SY03-05**  
**Dietary phytochemicals with ability to suppress lipid accumulation inhibit tumor progression in mice fed a high-fat diet**  
Junghan Yoon Park¹, Jae In Jung¹, Je Tae Woo², Minhee Kim¹, Han Jin Cho³  
¹Hallym University, Korea, ²Chubu University, Japan, ³Seoul National University, Korea

10:00-12:00 **Symposium 04**  
**The Cutting Edge of Mineral Nutrition: Physiological and Molecular Perspectives**  
Room: 501

Chairperson:  
Taiho Kambe (Kyoto University, Japan)  
Jaekwon Lee (University of Nebraska-Lincoln, USA)

**SY04-01**  
**Copper metabolism and its interactions with other minerals in health and disease**  
Jaekwon Lee, Xiaobin Wu, Heejeong Kim  
University of Nebraska-Lincoln, USA

**SY04-02**  
**Hypomagnesemia caused by defective trafficking of claudin-16 in renal tubule**  
Akira Ikari  
Gifu Pharmaceutical University, Japan

**SY04-03**  
**The role of Na+-dependent Phosphate transporters in the body**  
Hiroko Segawa, Ichiro Kaneko, Yuji Shiozaki, Sawako Tatsumi, Ken-ichi Miyamoto  
The University of Tokushima, Japan

**SY04-04**  
**The roles of zinc transporters in zinc absorption and zinc physiology**  
Taiho Kambe, Ayako Hashimoto  
Kyoto University, Japan

10:00-11:30 **Symposium 05**  
**Challenges of Scaling Up Nutrition Intervention to Achieve the Development Goal**  
Room: 502

Chairperson:  
Toru Rikimaru (Japan International Cooperation Agency, Japan)  
Ali Ahmed Al Mudhwahi (Ministry of Public Health and Population, Yemen)

**SY05-01**  
**Documenting the process of developing the Nepal Multi-sector Nutrition Plan and identifying its strengths and weaknesses**  
Pradiumna Dahal², Roger Shrimpton¹, Jennifer Crum¹, Saba Mebrahtu², Shikha Basnet³  
¹Tulane University, USA, ²UNICEF Nepal Country Office, Nepal

**SY05-02**  
**Why and how should we invest globally in nutrition?**  
Marika Nomura  
Harvard School of Public Health, USA

**SY05-03**  
**What are the current situations and the challenges in maternal and child malnutrition in Asia?**  
Toru Rikimaru  
Japan International Cooperation Agency, Japan

**SY05-04**  
**Role of integrated outreach activities in improving nutritional status among under-five children in Yemen**  
Ali Ahmed Al Mudhwahi  
Ministry of Public Health and Population, Yemen
## Program (May 15)

### 13:50-15:20  
**Symposium 06**  
Selection of Dietary Assessment Method in Accordance with the Purpose  
Room: 303

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| 13:50-15:20 | **Symposium 06**  
Selection of Dietary Assessment Method in Accordance with the Purpose | Katsushi Yoshita (Osaka City University, Japan)  
Kyungwon Oh (Korea Centers for Disease Control and Prevention, Korea) |        |
| SY06-01 | Korea National Health and Nutrition Examination Survey  
Kyoungwon Oh | *Korea Centers for Disease Control and Prevention, Korea* | 303    |
| SY06-02 | Challenges in dietary exposure assessment in nutrition epidemiology  
Junko Ishihara | *Sagami Women’s University, Japan* | 303    |
| SY06-03 | Validating dietary assessment data: Lessons from INTERMAP and DietCompLyf  
Claire E Robertson | *University of Westminster, UK* | 303    |

### 13:50-15:20  
**Symposium 07**  
Food Safety and Infectious Diseases  
Room: 304

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<th>Time</th>
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| 13:50-15:20 | **Symposium 07**  
Food Safety and Infectious Diseases | Yukihiro Akeda (Research Institute for Microbial Diseases, Osaka University, Japan) | 304    |
| SY07-01 | International spread in Asia of molluscan bivalve-mediated infection by a unique O3:K6 clone of *Vibrio parahaemolyticus* and its prevention | Mitsuaki Nishibuchi  
*Kyoto University, Japan* | 304    |
| SY07-02 | Topics on Norovirus in Japan  
Masashi Uema | *National Institute of Health Sciences, Japan* | 304    |
| SY07-03 | Food safety-related aspects of parasites in foods  
Dorn Watthanakulpanic | *Mahidol University, Thailand* | 304    |

### 13:50-15:20  
**Symposium 08**  
Role of Vitamins in Prevention and Treatment of Disease and Their Recent Findings  
Room: 414+415

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| 13:50-15:20 | **Symposium 08**  
Role of Vitamins in Prevention and Treatment of Disease and Their Recent Findings | Yoshiji Ohta (Fujita Health University School of Medicine, Japan)  
Toshiaki Watanabe (University of Hyogo, Japan) | 415    |
| SY08-01 | Niacin and Chronic Kidney Disease  
Yutaka Taketani¹, Masashi Masuda¹, Hisami Yamanaka-Okumura¹, Sawako Tatsumi¹, Ken-ichi Miyamoto¹,  
Eiji Takeda¹, Hironori Yamamoto¹ ² | ¹The University of Tokushima, Japan, ²Jin-ai University, Japan | 415    |
| SY08-02 | New functions of fat soluble vitamins  
Naoko Tsugawa | *Kobe Pharmaceutical University, Japan* | 415    |
| SY08-03 | Folate and Cancer Prevention  
Karunee Kwanbunjan | *Mahidol University, Thailand* | 415    |
Program (May 15)

13:50-15:20  Symposium 09  
Physiological Functions of Food Factors -Return to Mechanistic Approach-  
Room: 501

Chairperson:  Junji Terao (University of Tokushima, Japan)  
Hitoshi Ashida (Kobe University, Japan)

SY09-01 Anti-inflammatory, proresolving and chemopreventive effects of docosahexaenoic acid  
Young-Joon Surh  
Seoul National University, Korea
SY09-02 Dietary bioactives-stimulated sRAGE secretion as a novel approach for disease/diabetes prevention  
Gow-Chin Yen  
National Chung Hsing University, Taiwan
SY09-03 Bone-sparing effects of phytochemicals in vitro and in rodent models of osteoporosis  
Mariko Uehara, Hirofumi Inoue, Nobuyuki Takahashi  
Tokyo University of Agriculture, Japan
SY09-04 Cellular Sensing System for Green Tea Polyphenol Epigallocatechin Gallate  
Hirofumi Tachibana  
Kyushu University, Japan

13:50-15:20  Symposium 10  
Physical Activity and Nutrition for Health Promotion  
Room: 502

Chairperson:  Motohiko Miyachi (National Institute of Health and Nutrition, Japan)

SY10-01 "Add 10 min for your health": the new Japanese recommendation for physical activity based on dose-response analysis  
Motohiko Miyachi  
National Institute of Health and Nutrition, Japan
SY10-02 Evaluating "add 10 min of exercise for your health" from Japan in achieving minimal amount of recommended exercise  
Chi Pang Wen¹, Jackson Pui Man Wai², Min Kuang Tsai¹, Po Jung Lu¹, Xi Feng Wu³  
¹National Health Research Institutes, Taiwan, ²National Taiwan Sport University, Taiwan, ³MD Anderson Cancer Center, USA
SY10-03 Good nutritional and physical function as a key component for healthy aging: Results from cohort studies on Japanese older adults  
Shoji Shinkai  
Tokyo Metropolitan Institute of Gerontology, Japan

16:10-17:40  Symposium 11  
Immune Regulation by Gut Microbiota, Probiotics, and Prebiotics  
Room: 501

Chairperson:  Mamoru Totsuka (The University of Tokyo, Japan)

SY11-01 Roles of short-chain fatty acids in host defense and immunity  
Hiroshi Ohno  
RIKEN Center for Integrative Medical Sciences, Japan
SY11-02 Probiotics as an Immune Modulator for Hyper-Immune Disorders  
Sin-Hyeog IM  
Pohang University of Science and Technology, Korea
SY11-03 Communication tools mediating the health-promoting action of prebiotics and probiotics  
Kei Sonoyama  
Hokkaido University, Japan
Program (May 15 / 16)

16:10-17:40 Symposium 12
To Review Health Policies for Obesity Control and To Share Experiences of Intervention Programs Worldwide
Room: 502

Chairperson: Nobuo Nishi (National Institute of Health and Nutrition, Japan)
Joel Gittelsohn (Johns Hopkins Bloomberg School of Public Health, USA)

SY12-01 Monitoring obesity trends in Health Japan 21
Nobuo Nishi
National Institute of Health and Nutrition, Japan

SY12-02 International Trends in Regulating the Marketing of Foods and Beverages High in Fat, Salt or Sugar to Children
Eri Osawa
National Institute of Public Health, Japan

SY12-03 Community-based intervention study to combat obesity among housewives: Sharing experience from Malaysia
Tahir Aris, Noor Safiza Mohamad Nor
Ministry of Health Malaysia, Malaysia

SY12-04 Environmental interventions for obesity and chronic disease prevention
Joel Gittelsohn
Johns Hopkins Bloomberg School of Public Health, USA

May 16 (Saturday)

10:00-11:30 Symposium 13
Health Disparities and Nutrition
Room: Main Hall at Conference Center

Chairperson: Nobuko Murayama (University of Niigata Prefecture, Japan)
Adam Drewnowski (University of Washington, USA)

SY13-01 Nutrition Economics: How to Eat Better for Less
Adam Drewnowski
University of Washington, USA

SY13-02 Health and nutrition disparities in Malaysia
Zalilah Mohd Shariff
Universiti Putra Malaysia, Malaysia

SY13-03 Nutrition and Health Inequality in Korea
Jae Eun Shim
Daejeon University, Korea

SY13-04 Social inequality in food and nutrition and its health impact among the Japanese population
Yoshiharu Fukuda
Yamaguchi University School of Medicine, Japan

10:00-11:30 Symposium 14
Ingestion in Eldery People
Room: 303

Chairperson: Satoshi Wakisaka (Osaka University, Japan)

SY14-01 The developments and Problems with the Rehabilitation Therapy Works of Dysphagia in China
Zhang Qingsu
China Rehabilitation Research Center, China

SY14-02 Dysphagia rehabilitation in Japan
Makoto Inoue
Niigata University, Japan

SY14-03 Significance of oral function for dietary intakes in old people
Kazunori Ikebe
Osaka University Graduate School of Dentistry, Japan