

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 Methylenetetrahydrofolate 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 Lim^{1,2}, Jonghoon Park^{1,2}
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

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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 Mudhwah (*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 Basnet²
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 Mudhwah
Ministry of Public Health and Population, Yemen



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

Chairperson: **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
Kyungwon Oh
Korea Centers for Disease Control and Prevention, Korea

SY06-02 Challenges in dietary exposure assessment in nutrition epidemiology
Junko Ishihara
Sagami Women's University, Japan

SY06-03 Validating dietary assessment data: Lessons from INTERMAP and DietCompLyf
Claire E Robertson
University of Westminster, UK

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

Chairperson: **Yukihiro Akeda** (*Research Institute for Microbial Diseases, Osaka University, Japan*)

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

SY07-02 Topics on Norovirus in Japan
Masashi Uema
National Institute of Health Sciences, Japan

SY07-03 Food safety-related aspects of parasites in foods
Dorn Watthanakulpanic
Mahidol University, Thailand

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

Co-organized by The Vitamin Society of Japan

Chairperson: **Yoshiji Ohta** (*Fujita Health University School of Medicine, Japan*)
Toshiaki Watanabe (*University of Hyogo, Japan*)

SY08-01 Niacin and Chronic Kidney Disease
Yutaka Taketani¹, Masashi Masuda¹, Hisami Yamanaka-Okumura¹, Sawako Tatsumi¹, Ken-ichi Miyamoto¹, Eiji Takeda¹, Hironori Yamamoto^{1,2}
¹The University of Tokushima, Japan, ²Jin-ai University, Japan

SY08-02 New functions of fat soluble vitamins
Naoko Tsugawa
Kobe Pharmaceutical University, Japan

SY08-03 Folate and Cancer Prevention
Karunee Kwanbunjan
Mahidol University, Thailand



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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



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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 Rehabilitation Research Center

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