



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 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



Program (May 16)

10:00-11:30 **Symposium 15** **Lipid Mediators and Food Bioactives** **Room: 414+415**

Chairperson: **Kiyotaka Nakagawa** (*Graduate School of Agricultural Science, Tohoku University, Japan*)
Jean-Marc Zingg (*University of Miami, USA*)

- SY15-01 Dietary sphingolipids in skin barrier function**
Tatsuya Sugawara
Graduate School of Agriculture, Kyoto University, Japan
- SY15-02 The role of lipid messenger oleoylethanolamide in appetite regulation: modification by dietary fat**
Miki Igarashi
University of California, Irvine, USA
- SY15-03 Phosphatidylcholine hydroperoxide (PCOOH) as a marker of membrane lipid peroxidation**
Kiyotaka Nakagawa
Graduate School of Agricultural Science, Tohoku University, Japan
- SY15-04 Modulation of signal transduction and gene expression by vitamin E via PI3Kgamma/PKB and hTAP1/SEC14L2-mediated lipid exchange**
Jean-Marc Zingg
University of Miami, USA

10:00-11:30 **Symposium 16** **Food Labelling on Health Claim** **Room: 416+417**

Chairperson: **Toshio Shimizu** (*Nagoya-bunri University, Japan*)

- SY16-01 Japan has launched a new system of health claims for processed and fresh foods**
Motoko Nishio, Nobuyoshi Shiozawa, Yoshiyuki Matsubara, Yusuke Nakao, Toshitaka Masuda, Aya Moriya, Mami Endo, Hiroko Hosaka, Chizuru Seki, Hirona Hagiwara
Consumer Affairs Agency, Government of Japan, Japan
- SY16-02 Assessment and management of Health Claims in Europe 9 years after the adoption of the regulation**
Ambroise Martin
European Food Safety Authority, France
- SY16-03 Food labelling on Health Claim**
Toshio Shimizu
Nagoya-bunri University, Japan

10:00-12:00 **Symposium 17** **Application of Nanoscale Science and Technology to Food and Nutrition** **Room: 418**

Co-organized by Japan Society for Bioscience, Biotechnology, and Agrochemistry

Chairperson: **Mitsutoshi Nakajima** (*University of Tsukuba, Japan*)
Makoto Shimizu (*Tokyo University of Agriculture, Japan*)

- SY17-01 Nano Delivery in Food System**
Hyun Jin Park
Korea University, Korea
- SY17-02 Applications and Implications of Nanotechnology for Food and Nutrition**
Qasim Chaudhry
The Food and Environment Research Agency, UK
- SY17-03 Micro/Nano-Engineering for Formulation of Functional Foods**
Mitsutoshi Nakajima
University of Tsukuba, Japan
- SY17-04 Nanotechnology- Applications & Future Direction**
Lekh R. Juneja
Rohto Pharmaceuticals Co. Ltd., Japan

Program (May 16)

10:00-11:30 **Symposium 18** **Nutrition and Epigenetics** **Room: 501**

Chairperson: **Yoshihiro Ogawa** (*Tokyo Medical and Dental University, Japan*)

- SY18-01** **Epigenomic regulation of hepatic lipid metabolism and its clinical application**
Koshi Hashimoto, Yoshihiro Ogawa
Tokyo Medical and Dental University, Japan
- SY18-02** **A Role of Isocitrate Dehydrogenase 3 in Regulation of Epigenome and Transcription during Adipogenesis**
Juro Sakai, Yoshihiro Matsumura, Ariyanto Fuji Eko, Takeshi Inagaki
The University of Tokyo, Japan
- SY18-03** **Early nutritional influences on human developmental epigenetics**
Robert A. Waterland
Baylor College of Medicine, USA

10:00-12:00 **Symposium 19** **Chrono-nutrition** **Room: 503**

Chairperson: **Hiroaki Oda** (*Nagoya University, Japan*)
Zhengwei Fu (*Zhejiang University of Technology, China*)

- SY19-01** **Body Weight Regulation: Importance of When You Eat Not Only What You Eat**
Fred W. Turek
Northwestern University, USA
- SY19-02** **Restricted feeding time protects against obesity**
Megumi Hatori
Keio University, Japan
- SY19-03** **Entrainment of the peripheral clocks by nutriment administration**
Zhengwei Fu
Zhejiang University of Technology, China
- SY19-04** **Regulation of circadian rhythms by dietary nutrients and natural compounds**
Katsutaka Oishi
National Institute of Advanced Industrial Science and Technology (AIST), Japan
- SY19-05** **SmartNutriStyle (Eating 5W1H): how regular eating timing regulates liver clock and metabolism**
Hiroaki Oda
Nagoya University, Japan

13:50-15:20 **Symposium 20** **School Lunch Program and the Role of Nutrition Teacher** **Room: 303**

Chairperson: **Hiroshi Ishida** (*Kagawa Nutrition University, Japan*)
Kyung-Hea Lee (*Changwon National University, Korea*)

- SY20-01** **Promoting Shokuiku(Diet and Nutrition Education) through School Lunch Programs in Japanese Schools**
Toshiyuki Takebayashi
Ministry of Education, Culture, Sports, Science and Technology of Japan, Japan
- SY20-02** **Features of school lunch program in Japan and comparison with other countries**
Miho Nozue
National Institute of Health and Nutrition, Japan
- SY20-03** **School meal system and school- based nutrition education in Korea**
Taejung Woo
Changwon National University, Korea



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13:50-15:20 **Symposium 21**
Health Economics of Nutrition Interventions in Asia:
Cost of Malnutrition **Room: 304**

Chairperson: **Nobuo Yoshiike** (*Aomori University of Health and Welfare, Japan*)
Kaori Mizumoto (*Fukuoka Women's University, Japan*)

- SY21-01** **Introduction to Healthcare Economics**
Genki Murakami
University Hospital of Occupational and Environmental Health Japan, Japan
- SY21-02** **Overviews of global situation of nutritional issues and economic evaluation of nutrition interventions**
Kaori Mizumoto
Fukuoka Women's University, Japan
- SY21-03** **The potential role of health economics to improve nutritional situation in Indonesia**
Laksono Trisnantoro
Gadjah Mada University, Indonesia
- SY21-04** **Under-nutrition in Asia**
Kenro Oshidari
United Nations World Food Programme, Japan

13:50-15:20 **Symposium 22**
Roles of National and Local Governments and the Dietetic Association in Nutrition Assistance Response to Natural Disasters: Systems and Experiences in Japan and USA **Room: 313+314**

Chairperson: **Noriko Sudo** (*Ochanomizu University, Japan*)
Toni Abernathy (*US Department of Agriculture, USA*)

- SY22-01** **Responses of the Ministry of Health, Labour and Welfare to the Great East Japan Earthquake**
Yasuhiro Kanatani
National Institute of Public Health, Japan
- SY22-02** **Nutrition Assistance by Iwate Prefectural Government in the Great East Japan Earthquake**
Noriko Sudo
Ochanomizu University, Japan
- SY22-03** **Experiences in the Great East Japan Earthquake and training of the Japan Dietetic Association-Disaster Assistance Team**
Nobuyo Tsuboyama-Kasaoka
National Institute of Health and Nutrition, Japan
- SY22-04** **Limitations of government emergency food supplies: lessons learned from the Great East Japan Earthquake**
Kunihiro Doi
Japan International Research Center for Agricultural Sciences, Japan
- SY22-05** **Responsibilities of the USDA-Food and Nutrition Service in nutrition assistance in natural disasters**
Toni Y Abernathy
United States Department of Agriculture, USA

Program (May 16)

13:50-15:20 **Symposium 23**
Research and Development of Functional Foods:
Study Cases of Food Science and Technology **Room: 418**

Co-organized by The Japanese Society for Food Science and Technology

Chairperson: **Hideaki Ohta** (*Nakamura Gakuen University, Japan*)
Hiroshi Nabetani (*National Food Research Institute, NARO, Japan*)
Toshiro Matsui (*Kyushu University, Japan*)

- SY23-01** **Outline of the History and Role of Functional Foods in Japan**
Naofumi Kitabatake
Notre Dame Seishin University, Japan
- SY23-02** **Product Structuring for Sodium Reduction**
Aaron S.M. Goh
Singapore Institute of Technology, Singapore
- SY23-03** **Protein/Polysaccharide Electrostatic Complexes and their Applications in Stabilizing Oil-in-Water Emulsions**
Yapeng Fang^{1,2}, Wenjia Ai¹, Shengping Xiang¹, Xiaolin Yao^{1,2}, Katsuyoshi Nishinari^{1,2}, Glyn O. Phillips¹
¹Glyn O. Phillips Hydrocolloid Research Centre at HUT, Hubei University of Technology, China, ²Hubei Collaborative Innovation Centre for Industrial Fermentation, Hubei University of Technology, China
- SY23-04** **Recent Topics of Functional Food Research in Nisshin Seifun Group Inc.**
Noritaka Tsuge
Nisshin Seifun Group Inc., Japan
- SY23-05** **Development of Functional Mayonnaise Products**
Akihiro Handa
Kewpie Corporation, Japan

13:50-15:20 **Symposium 24**
Nutrition and Exercise **Room: 501**

Chairperson: **Toshio Moritani** (*Kyoto University, Japan*)

- SY24-01** **Effects of Exercise and Nutrition upon Lifestyle-related Disease and Cognitive Function**
Toshio Moritani
Kyoto University, Japan
- SY24-02** **Role of Exercise and Nutrition in the Prevention of Sarcopenia**
Satoshi Fujita
Ritsumeikan University, Japan
- SY24-03** **Effects of Astragalus membranaceus supplementation in exercise capacity**
Mei-Chich Hsu¹, Tzu-Shao Yeh³, Chi-Chang Huang²
¹Kaohsiung Medical University, Taiwan, ²National Taiwan Sport University, Taiwan, ³Taipei Medical University, Taiwan

16:10-17:40 **Symposium 25**
Regulation of Cholesterol Metabolism **Room: Main Hall at Conference Center**

Chairperson: **Ryuichiro Sato** (*The University of Tokyo, Japan*)
Satoshi Nagaoka (*Gifu University, Japan*)

- SY25-01** **Physiological significance of oxidized cholesterols**
Masao Sato
Kyushu University, Japan
- SY25-02** **Cholesterol lowering peptides**
Satoshi Nagaoka
Gifu University, Japan
- SY25-03** **Navigating the shallows and rapids of cholesterol synthesis downstream of HMGCR**
Andrew J Brown
The University of New South Wales, Australia

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SY25-04 **Functions of cholesterol metabolites**
Ryuichiro Sato
The University of Tokyo, Japan

16:10-17:40 **Symposium 26**
Osteoporosis and Lifestyle **Room: 304**

Chairperson: **Yoshiko Ishimi** (*National Institute of Health and Nutrition, Japan*)
Marlena C. Kruger (*Massey University, New Zealand*)

SY26-01 **Nutritional aspects of prevention and treatment of osteoporosis with life-style related diseases**
Atsushi Suzuki
Fujita Health University, Japan

SY26-02 **Vitamin K Status and Bone Health**
Naoko Tsugawa
Kobe Pharmaceutical University, Japan

SY26-03 **Selective effects of soy phytoestrogens and New Zealand functional foods on bone health**
Marlena C. Kruger¹, Yuko Tousen², Shinichi Katsumata³, Miki Tadaishi³, Abe Kasonga⁴, Vishwa Deepak⁴, Magdalena Coetzee⁴, Yoshiko Ishimi²
¹Massey University, New Zealand, ²National Institute of Health and Nutrition, Japan, ³Tokyo University of Agriculture, Japan, ⁴University of Pretoria, South Africa

16:10-17:40 **Symposium 27**
Nutritional Improvement Activities for Community Empowerment **Room: 313+314**

Chairperson: **Midori Ishikawa** (*National Institute of Public Health, Japan*)

SY27-01 **Food and nutritional improvement action of communities in Japan: Lessons for the world**
Midori Ishikawa
National Institute of Public Health, Japan

SY27-02 **Characteristics of Competency Measurement in Registered Dietitians/Dietitians with International Cooperative Experience**
Kaoru Kusama¹, Nobuo Yoshiike¹, Midori Ishikawa², Miho Nozue³, Miki Miyoshi³, Kaori Mizumoto⁴
¹Aomori University of Health and Welfare, Japan, ²National Institute of Public Health, Japan, ³National Institute of Health and Nutrition, Japan, ⁴Fukuoka Women's University, Japan

SY27-03 **Cooperation between Japanese and Cambodian dietitian in setting up the hospital diet management system**
Koung Ry Ly¹, Shino Saito¹, Kaoru Kusama²
¹Foundation for International Development/Relief, Cambodia, ²Aomori University of Health and Welfare, Japan

16:10-17:40 **Symposium 28**
Nutrient Table/Database **Room: 416+417**

Chairperson: **Tomoko Watanabe** (*Chiba Prefectural University of Health Sciences, Japan*)
Duo Li (*Zhejiang University, China*)

SY28-01 **Advances in Food Composition Tables of Japan "Standard Tables of Food Composition Japan"**
Tomoko Watanabe
Chiba Prefectural University of Health Sciences, Japan

SY28-02 **Advances in Food Composition Tables of Japan -Amino acid, fatty acid and available carbohydrate composition tables-**
Takeshi Yasui
Expert Committee on Food Component, Japan

SY28-03 **Current status and Progress of China Food Composition**
Xu Weisheng
National Institute For Nutrition And Health, China

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16:10-17:40 **Symposium 29**
Lipid Nutrition and Healthy Aging **Room: 502**

Co-organized by Japan Study Group of Fat, Oil and Cholesterol Research

Chairperson: **Teruyoshi Yanagita** (*Nishikyushu University, Japan*)
Teruo Miyazawa (*Tohoku University, Japan*)

- SY29-01** **Influence of dietary lipids on bioaccessibility and bioavailability of carotenoids**
Chandrika Udumalagala Gamage
University of Sri Jayewarenepura, Sri Lanka
- SY29-02** **CCAAT/enhancer binding protein beta (C/EBPb): a key player in the pathologies associated with high fat diet induced obesity**
Shaikh M. Rahman
Texas Tech University, USA
- SY29-03** **Functional lipids in metabolic syndrome**
Koji Nagao¹, Teruyoshi Yanagita²
¹*Saga University, Japan*, ²*Nishikyushu University, Japan*
- SY29-04** **Dietary polyunsaturated fatty acids and plasma cholesterol levels**
Meng-Tsan Chiang, Ai-Lun Huang
National Taiwan Ocean University, Taiwan

May 17 (Sunday)

10:00-12:00 **Symposium 30**
Obesity and Nutrition **Room: Main Hall at Conference Center**

Chairperson: **Masayuki Saito** (*Hokkaido University, Japan*)
Teruo Kawada (*Kyoto University, Japan*)

- SY30-01** **Brown rice and its component, γ -oryzanol, attenuate the preference for high-fat diet**
Hiroaki Masuzaki
University of the Ryukyus, Japan
- SY30-02** **Targeting immune signaling molecules against obesity-induced inflammation and metabolic complications**
Rina Yu
University of Ulsan, Korea
- SY30-03** **Fatty acids in the regulation of muscle mitochondrial dynamics and beta-cell function**
Yau-Sheng Tsai
National Cheng Kung University, Taiwan
- SY30-04** **Engineering Fat Cell Fate to Fight Obesity and Metabolic Diseases**
Shingo Kajimura
University of California, San Francisco, USA
- SY30-05** **Food ingredients activating brown fat thermogenesis and reducing body fat in humans**
Takeshi Yoneshiro
Hokkaido University, Japan

10:00-12:00 **Symposium 31**
Environmental Impact of Dietary Guidelines **Room: 303**

Chairperson: **Fumi Hayashi** (*Kagawa Nutrition University, Japan*)
Jihyun Yoon (*Seoul National University, Korea*)

- SY31-01** **The Special Act on the SAFENET for children in Korea: How Did It Work for Children's Healthy Eating Environment?**
Jihyun Yoon
Seoul National University, Korea
- SY31-02** **Creating Healthy Food Environment to Combat Lifestyle-related Diseases in Japan**
Yukari Takemi
Kagawa Nutrition University, Japan