Program (May 15 / 16)

16:10-17:40  Symposium 12  Room: 502
To Review Health Policies for Obesity Control and To Share Experiences of Intervention Programs Worldwide  
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  Room: Main Hall at Conference Center
Health Disparities and Nutrition

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  
Daegi 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  Room: 303
Ingestion in Eldery People

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 Ibebe  
Osaka University Graduate School of Dentistry, Japan
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:  Hiromi 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
**Program (May 16)**

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<td>Overviews of global situation of nutritional issues and economic evaluation of nutrition interventions</td>
<td>Kaori Mizumoto</td>
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<td>SY21-03</td>
<td>The potential role of health economics to improve nutritional situation in Indonesia</td>
<td>Laksono Trisnantoro</td>
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<td>SY21-04</td>
<td>Under-nutrition in Asia</td>
<td>Kenro Oshidari</td>
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<td>SY22-01</td>
<td>Responses of the Ministry of Health, Labour and Welfare to the Great East Japan Earthquake</td>
<td>Yasuhiro Kanatani</td>
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<td>SY22-02</td>
<td>Nutrition Assistance by Iwate Prefectual Government in the Great East Japan Earthquake</td>
<td>Noriko Sudo</td>
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<td>SY22-03</td>
<td>Experiences in the Great East Japan Earthquake and training of the Japan Dietetic Association-Disaster Assistance Team</td>
<td>Nobuyo Tsuboyama-Kasaoka</td>
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<td>SY22-04</td>
<td>Limitations of government emergency food supplies: lessons learned from the Great East Japan Earthquake</td>
<td>Kunihiro Doi</td>
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<td>SY22-05</td>
<td>Responsibilities of the USDA-Food and Nutrition Service in nutrition assistance in natural disasters</td>
<td>Toni Y Abernathy</td>
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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/Polsaccharide Electrostatic Complexes and their Applications in Stabilizing Oil-in-Water Emulsions
Yapeng Fang1,2, Wenjia Ai1, Shengping Xiang1, Xiaolin Yao1,2, Katsuyoshi Nishinari1,2, 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 Yeh2, Chi-Chang Huang2
1Kaohsiung Medical University, Taiwan, 2National Taiwan Sport 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 choleste rols
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
Program (May 16)

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 Tousen1, Shinichi Katsumata2, 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
### Program (May 16 / 17)

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<td>Lipid Nutrition and Healthy Aging</td>
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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  
¹Saga University, Japan, ²Nishikyushu University, Japan

**SY29-04** Dietary polyunsaturated fatty acids and plasma cholesterol levels  
Meng-Tsan Chiang, Ai-Lun Huang  
National Taiwan Ocean University, Taiwan

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### May 17 (Sunday)

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<td>10:00-12:00</td>
<td>Obesity and Nutrition</td>
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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 Yonemori  
Hokkaido University, Japan

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<td>10:00-12:00</td>
<td>Environmental Impact of Dietary Guidelines</td>
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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