## Program

### May 14 (Thursday)

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<th>Chairperson</th>
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<tbody>
<tr>
<td>16:20-17:05</td>
<td><strong>Plenary Lecture 01</strong></td>
<td>Room: National Convention Hall</td>
<td>Teruo Kawada (Kyoto University, Japan)</td>
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<tr>
<td></td>
<td>Leptin and the Regulation of Food Intake and Body Weight</td>
<td></td>
<td>Jeffrey M. Friedman</td>
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<td><em>Rockefeller University, USA</em></td>
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<tr>
<td>17:05-17:50</td>
<td><strong>Plenary Lecture 02</strong></td>
<td>Room: National Convention Hall</td>
<td>Tohru Fushiki (Ryukoku University, Japan)</td>
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<tr>
<td></td>
<td>Functional Food Science in Japan: Present State and Perspectives</td>
<td></td>
<td>Keiko Abe</td>
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<td></td>
<td><em>The University of Tokyo, Japan, the Kanagawa Academy of Science &amp; Technology (KAST), Japan</em></td>
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### May 15 (Friday)

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<th>Time</th>
<th>Event</th>
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<tr>
<td>9:00-9:45</td>
<td><strong>Plenary Lecture 03</strong></td>
<td>Room: Main Hall at Conference Center</td>
<td>Chizuru Nishida (World Health Organization (WHO), Switzerland)</td>
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<tr>
<td></td>
<td>The Present Role of Industrial Food Processing in Food Systems and Its Implications for Controlling the Obesity Pandemic</td>
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<td>Carlos A. Monteiro</td>
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<td><em>University of São Paulo, Brazil</em></td>
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### May 16 (Saturday)

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<th>Time</th>
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<tr>
<td>9:00-9:45</td>
<td><strong>Plenary Lecture 04</strong></td>
<td>Room: Main Hall at Conference Center</td>
<td>Pek-Yee Chow (Federation of Asian Nutrition Societies, Singapore Nutrition and Dietetics Association (SNDA), Singapore)</td>
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<tr>
<td></td>
<td>Multi-Stakeholders and Multi-Strategic Approaches for Food and Nutrition Security</td>
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<td>Kraisid Tontisirin</td>
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<td></td>
<td><em>Mahidol University, Thailand</em></td>
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### May 17 (Sunday)

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<th>Time</th>
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<tr>
<td>9:00-9:45</td>
<td><strong>Plenary Lecture 05</strong></td>
<td>Room: Main Hall at Conference Center</td>
<td>Teruo Miyazawa (Tohoku University, Japan)</td>
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<tr>
<td></td>
<td>Chemistry and Safeguarding Marine Resources from Natural Contaminants</td>
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<td>Takeshi Yasumoto</td>
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<td><em>Japan Food Research Laboratories, Japan</em></td>
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Program

May 17 (Sunday)

14:50-15:35  Presidential Lecture  Room: Main Hall at Conference Center

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<th>Time</th>
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<tr>
<td>14:50-15:35</td>
<td>Presidential Lecture</td>
<td>Room: Main Hall at Conference Center</td>
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Chairperson:  Kazuo Kondo  (Toyo University, Japan)

Membrane Lipid Peroxidation in Human Nutrition and Aging
Teruo Miyazawa
Tohoku University, Japan
# Program

## May 15 (Friday)

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<thead>
<tr>
<th>Time</th>
<th>Lecture</th>
<th>Room</th>
<th>Chairperson</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>10:00-10:45</td>
<td><strong>Educational Lecture 01</strong></td>
<td>Main Hall at Conference Center</td>
<td>Ching-jang Huang (National Taiwan University, Taiwan)</td>
<td>Shin-ichiro Imai&lt;br&gt;Washington University School of Medicine, USA</td>
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<tr>
<td></td>
<td>The Importance of the Inter-Tissue Communication Mediated by NAMPT/NAD⁺/SIRT1 in Mammalian Aging/Longevity Control: Is Anti-Aging Intervention Realistic?</td>
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<tr>
<td>10:00-10:45</td>
<td><strong>Educational Lecture 02</strong></td>
<td>503</td>
<td>Nobuo Nishi (National Institute of Health and Nutrition, Japan)</td>
<td>Ascensión Marcos¹,²,³&lt;br&gt;¹Institute of Food Science, Technology and Nutrition (ICTAN), Spain, ²Spanish National Research Council (CSIC), Spain, ³President of FENS, Belgium</td>
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<tr>
<td></td>
<td>The Impact of Overweight and Obesity on Adolescence: Consequences on Metabolic Biomarkers</td>
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<tr>
<td>11:00-11:45</td>
<td><strong>Educational Lecture 03</strong></td>
<td>Main Hall</td>
<td>Kazumi Yagasaki (Utsunomiya University, Japan)</td>
<td>Sue-Joan Chang&lt;br&gt;National Cheng Kung University, Taiwan</td>
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<tr>
<td></td>
<td>Nutrition and Health Promotion - From Molecular to Physiological Modulation</td>
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<tr>
<td>11:00-11:45</td>
<td><strong>Educational Lecture 04</strong></td>
<td>503</td>
<td>S.K.Roy (Bangladesh Breastfeeding Foundation, Bangladesh)</td>
<td>E Siong Tee&lt;br&gt;Southeast Asia Public Health Nutrition Network, President of Nutrition Society of Malaysia, Malaysia</td>
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<td></td>
<td>Food-Based Dietary Guidelines of Southeast Asia: An Analysis of Key Messages</td>
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<tr>
<td>13:50-14:35</td>
<td><strong>Educational Lecture 05</strong></td>
<td>Main Hall at Conference Center</td>
<td>Nobuko Murayama (University of Niigata Prefecture, Japan)</td>
<td>Ichiro Kawachi&lt;br&gt;Harvard University, USA</td>
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<tr>
<td></td>
<td>Why Do Behavior Interventions Fail? Insights from Behavioral Economics</td>
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<tr>
<td>13:50-14:35</td>
<td><strong>Educational Lecture 06</strong></td>
<td>503</td>
<td>Yasuo Kagawa (Kagawa Nutrition University, Japan)</td>
<td>Mark L Wahlqvist¹,²,³&lt;br&gt;¹Zhejiang University, China, ²Institute of Population Health, NHRI, Taiwan, ³Monash university, Australia</td>
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<tr>
<td></td>
<td>Food and Nutrition Security for Healthy Aging</td>
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<tr>
<td>16:10-16:55</td>
<td><strong>Educational Lecture 07</strong></td>
<td>303</td>
<td>Yukari Takemi (Kagawa Nutrition University, Japan)</td>
<td>Chizuru Nishida&lt;br&gt;Coordinator, Nutrition Policy and Scientific Advice Unit, Department of Nutrition for Health and Development, WHO</td>
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<tr>
<td></td>
<td>Achieving policy coherence for addressing the double burden of malnutrition: A global challenge</td>
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</table>
Program

16:10-16:55 Educational Lecture 08  Room: 414+415
Chairperson: Nobuyo Tsuboyama-Kasaoka (National Institute of Health and Nutrition, Japan)

EL08 Obesity Epidemic in Asia: Issues and Challenges
Mohd Ismail Noor
Emeritus Professor in Nutrition, Taylor’s University, Malaysia

16:10-16:55 Educational Lecture 09  Room: 503
Chairperson: Kazuhiro Yamada (Kagawa Nutrition University, Japan)

EL09 Nutrient Standards
Hee Young Paik
Seoul National University, Korea

May 16 (Saturday)

13:50-14:35 Educational Lecture 10  Room: Main Hall at Conference Center
Chairperson: Hideoki Fukuoka (Waseda University, Japan)

EL10 The Early Life Origins of Non-Communicable Diseases: An Overview of Recent Advances
Graham C Burdge
University of Southampton, UK

16:10-16:55 Educational Lecture 11  Room: 501
Chairperson: Yasutomi Kamei (Kyoto Prefectural University, Japan)

EL11 There is an Obesity Metabolic Program in Muscle
G. Lynis Dohm
East Carolina University, USA

May 17 (Sunday)

13:50-14:35 Educational Lecture 12  Room: Main Hall at Conference Center
Chairperson: Hisanori Kato (The University of Tokyo, Japan)

EL12 Nutrigenomics and Nutrigenetics: The New Paradigm for Optimising Health and Preventing Disease
Michael Fenech
CSIRO Food and Nutrition, Australia

13:50-14:35 Educational Lecture 13  Room: 302
Chairperson: Makoto Shimizu (Tokyo University of Agriculture, Japan)

EL13 Type 2 diabetes in Asians: Can diet make a difference?
Jeyakumar Henry
Clinical Nutrition Research Centre, Singapore Institute of Clinical Sciences, A*STAR, Singapore
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 Lim1,2, Jonghoon Park1,2
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 lifestyle-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

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<tr>
<th>Time</th>
<th>Session</th>
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| 10:00-11:30 | **Symposium 05**  
Challenges of Scaling Up Nutrition Intervention to Achieve the Development Goal  
Room: 502 |

<table>
<thead>
<tr>
<th>Session</th>
<th>Authors</th>
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</thead>
</table>
| 10:00-11:30 **Symposium 05**                                           | Toru Rikimaru (Japan International Cooperation Agency, Japan)  
Ali Ahmed Al Mudhwahi (Ministry of Public Health and Population, Yemen) |

**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

10:00-12:00 **Symposium 05**  
The Cutting Edge of Mineral Nutrition: Physiological and Molecular Perspectives  
Room: 501

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Challenges of Scaling Up Nutrition Intervention to Achieve the Development Goal  
Room: 502 |

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<tr>
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</table>
| 10:00-11:30 **Symposium 05**                                           | 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 Dahal¹, 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)

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<tr>
<th>Time</th>
<th>Symposium 06</th>
<th>Room: 303</th>
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<tr>
<td>13:50-15:20</td>
<td>Selection of Dietary Assessment Method in Accordance with the Purpose</td>
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<td>Chairperson: Katsushi Yoshita (Osaka City University, Japan)</td>
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<td></td>
<td>Kyungwon Oh (Korea Centers for Disease Control and Prevention, Korea)</td>
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<td>SY06-01</td>
<td>Korea National Health and Nutrition Examination Survey</td>
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<td></td>
<td>Kyungwon Oh</td>
<td>Korea Centers for Disease Control and Prevention, Korea</td>
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<tr>
<td>SY06-02</td>
<td>Challenges in dietary exposure assessment in nutrition epidemiology</td>
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<td></td>
<td>Junko Ishihara</td>
<td>Sagami Women's University, Japan</td>
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<tr>
<td>SY06-03</td>
<td>Validating dietary assessment data: Lessons from INTERMAP and DietCompLyf</td>
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<td>Claire E Robertson</td>
<td>University of Westminster, UK</td>
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<th>Time</th>
<th>Symposium 07</th>
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<tr>
<td>13:50-15:20</td>
<td>Food Safety and Infectious Diseases</td>
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<td>Chairperson: Yukihiro Akeda (Research Institute for Microbial Diseases, Osaka University, Japan)</td>
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<tr>
<td>SY07-01</td>
<td>International spread in Asia of molluscan bivalve-mediated infection by a unique O3:K6 clone of <em>Vibrio parahaemolyticus</em> and its prevention</td>
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<td></td>
<td>Mitsuaki Nishibuchi</td>
<td>Kyoto University, Japan</td>
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<tr>
<td>SY07-02</td>
<td>Topics on Norovirus in Japan</td>
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<td>Masashi Uema</td>
<td>National Institute of Health Sciences, Japan</td>
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<td>SY07-03</td>
<td>Food safety-related aspects of parasites in foods</td>
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<td>Dorn Watthanakulpanic</td>
<td>Mahidol University, Thailand</td>
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<tr>
<th>Time</th>
<th>Symposium 08</th>
<th>Room: 414+415</th>
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<tr>
<td>13:50-15:20</td>
<td>Role of Vitamins in Prevention and Treatment of Disease and Their Recent Findings</td>
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<td>Co-organized by The Vitamin Society of Japan</td>
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<td>Chairperson: Yoshiji Ohta (Fujita Health University School of Medicine, Japan)</td>
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<td>Toshiaki Watanabe (University of Hyogo, Japan)</td>
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<tr>
<td>SY08-01</td>
<td>Niacin and Chronic Kidney Disease</td>
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<td>Yutaka Taketani¹, Masashi Masuda¹, Hisami Yamanaka-Okumura¹, Sawako Tatsumi¹, Ken-ichi Miyamoto¹, Eiji Takeda¹, Hironori Yamamoto¹²</td>
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<td>¹The University of Tokushima, Japan, ²Jin-ai University, Japan</td>
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<td>SY08-02</td>
<td>New functions of fat soluble vitamins</td>
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<td>Naoko Tsugawa</td>
<td>Kobe Pharmaceutical University, Japan</td>
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<tr>
<td>SY08-03</td>
<td>Folate and Cancer Prevention</td>
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<td>Karunee Kwanbunjan</td>
<td>Mahidol University, Thailand</td>
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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 Tsai³, 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 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**  
Epigenetic 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  
Toshiiyuki 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
### Symposium 21
**Health Economics of Nutrition Interventions in Asia: Cost of Malnutrition**

Room: 304

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<th>Title</th>
<th>Speakers</th>
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<td>13:50-15:20</td>
<td>SY21-01</td>
<td>Introduction to Healthcare Economics</td>
<td>Genki Murakami (University Hospital of Occupational and Environmental Health, Japan)</td>
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<tr>
<td></td>
<td>SY21-02</td>
<td>Overviews of global situation of nutritional issues and economic evaluation of nutrition interventions</td>
<td>Kaori Mizumoto (Fukuoka Women’s University, Japan)</td>
</tr>
<tr>
<td></td>
<td>SY21-03</td>
<td>The potential role of health economics to improve nutritional situation in Indonesia</td>
<td>Laksono Trisnantoro (Gadjah Mada University, Indonesia)</td>
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<td></td>
<td>SY21-04</td>
<td>Under-nutrition in Asia</td>
<td>Kenro Oshidari (United Nations World Food Programme, Japan)</td>
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### 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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
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<td></td>
<td>SY22-02</td>
<td>Nutrition Assistance by Iwate Prefectural Government in the Great East Japan Earthquake</td>
<td>Noriko Sudo (Ochanomizu University, Japan)</td>
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<td></td>
<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 (National Institute of Health and Nutrition, Japan)</td>
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<tr>
<td></td>
<td>SY22-04</td>
<td>Limitations of government emergency food supplies: lessons learned from the Great East Japan Earthquake</td>
<td>Kunihiro Doi (Japan International Research Center for Agricultural Sciences, Japan)</td>
</tr>
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<td></td>
<td>SY22-05</td>
<td>Responsibilities of the USDA-Food and Nutrition Service in nutrition assistance in natural disasters</td>
<td>Toni Y Abernathy (United States Department of Agriculture, USA)</td>
</tr>
</tbody>
</table>
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 Yeh3, Chi-Chang Huang3
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
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 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
Program (May 16 / 17)

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 Jayewardenepura, 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

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, Ɣ-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
Program (May 17)

10:00-11:30  Symposium 32
How Can We Fight Against Food Allergy? Room: 304

Chairperson: Satoshi Hachimura (The University of Tokyo, Japan)
Tatsuya Moriyama (Kinki University, Japan)

SY32-01  Diversity of food allergy
Tatsuya Moriyama
Kinki University, Japan

SY32-02  The intestinal immune system from the viewpoint of food allergy
Satoshi Hachimura
The University of Tokyo, Japan

SY32-03  Food and natural materials target mechanisms to effectively regulate allergic responses
Dong-Hwa Shon, Hee Soon Shin
Korea Food Research Institute, Korea

10:00-11:30  Symposium 33
Nutrition for Longevity Room: 501

Co-organized by The Japanese Society of Nutrition and Dietetics

Chairperson: Haeng-Shin Lee (Korea Health Industry Development Institute, Korea)
Kazuko Ishikawa-Takata (National Institute of Health and Nutrition, Japan)

SY33-01  Progress and Problems of Nutrition Care Management in the Long-Term-Care Insurance System
Kazuko Ishikawa-Takata
National Institute of Health and Nutrition, Japan

SY33-02  Nutritional and Swallowing Status in Dependent Community-Dwelling Older People in Japan
Masafumi Kuzuya¹, Michiko Sugiyama², Hiromi Enoki³
¹Nagoya University Graduate School of Medicine, Japan, ²Kanagawa University of Human Services, Japan,
³Aichi Syukutoku University, Japan

SY33-03  Improving Clinical Outcome in the National Management of Sarcopenia at the National Center for Geriatric Health and Research Institute (NCGH-RI), Philippines
Miguel A. Ramos Jr.
The National Center for Geriatric Health, Philippines

SY33-04  Longevity, Diet, and Nutrition in Korea
Haeng-Shin Lee
Korea Health Industry Development Institute, Korea

10:00-12:00  Symposium 34
DOHaD Room: 502

Chairperson: Hideoki Fukuoka (Waseda University, Japan)
Torsten Plösch (University Medical Center Groningen, Netherlands)

SY34-01  Dietary Lipids as Modifiers of the Epigenome: Good or Bad?
Graham C Burdge
University of Southampton, UK

SY34-02  Maternal nutrition and long-term consequences - the role of epigenetics
Torsten Plösch
University Medical Center Groningen, Netherlands
Program (May 17)

SY34-03  The impact of nutritional insults during fetal life on blood pressure  
Barbara T. Alexander  
University of Mississippi Medical Center, USA

SY34-04  DOHaD (Developmental Origins of Health and Disease) and nutritional management in pregnancy  
Hidemi Takimoto¹, Reiko Tajirika², Toshiro Kubota³  
¹National Institute of Health and Nutrition, Japan, ºTokyo Medical and Dental University, Japan

10:00-12:00  Symposium 35  
Science Tests Kyoto’s Exquisite Traditional Cuisine: A Novel Collaboration between Japanese Chefs and Scientists  
Room: Exhibition Hall

Chairperson:  Tohru Fushiki (Ryukoku University, Japan)  
Hanae Yamazaki (Ryukoku University, Japan)

SY35-01  Science Tests Kyoto’s Exquisite Traditional Cuisine: A Novel Collaboration between Japanese Chefs and Scientists  
Hanae Yamazaki¹,³, Tohru Fushiki¹,³  
¹Ryukoku University, Japan, ²Kyoto University, Japan, ³The Japan Society for Laboratory Cuisine, Japan

SY35-02  Continuity and Change: Kyoto Chefs Engage with Science  
Greg de St. Maurice  
University of Pittsburgh, USA

13:50-15:20  Symposium 36  
Shokuiku (Food and Nutrition Education for Children)  
Room: 303

Chairperson:  Hidemi Takimoto (National Institute of Health and Nutrition, Japan)

SY36-01  The Place of Taste Education in France and Japan and Its Contribution to Develop the Complete State of Physical, Mental and Social Wellbeing for Young People  
Sylvie Delaroche-Houot, Izumi Tajiri  
Association Nationale pour l’Éducation au Goût des Jeunes, France

SY36-02  School Lunch and Promotion of Food Education in Japan  
Nobuko Tanaka  
Shukutoku University, Japan

SY36-03  Using the DESIGN procedure to develop and evaluate nutrition education: The Food, Health & Choices experience  
Isobel R Contento  
Teachers College Columbia University, USA

13:50-15:50  Symposium 37  
Food Safety Program in Asian Countries  
Room: 304

Chairperson:  Ryuji Yamaguchi (ILSI Japan, Japan)  
Lucy Sun Hwang (National Taiwan University, Taiwan)

SY37-01  Food Safety and Sanitation Regulations in Taiwan  
Lucy Sun Hwang  
National Taiwan University, Taiwan

SY37-02  The Role of Risk Assessment in the Regulatory Control of Aluminum Containing Food Additives in China  
Ning Ma, Liu Zhaoqing, Junshi Chen  
China National Centre for Food Safety Risk Assessment, China

SY37-03  Facilitating Food Standards Harmonization in ASEAN - ILSI Southeast Asia Region’s Scientific Initiatives  
Pauline Chan  
ILSI Southeast Asia Region, Singapore
Program (May 17)

13:50-15:50  Symposium 38
The Future of Nutrition Care Process Implementation  Room: 501

Chairperson: Fusako Teramoto (Kawasaki University of Medical Welfare, Japan)

SY38-01 The Future of Nutrition Care Process Implementation
Teiji Nakamura
Kanagawa University of Human Services, Japan

SY38-02 Challenges in implementing IDNT in Malaysia
Winnie SS Chee
International Medical University, Malaysia

SY38-03 Review of the Effectiveness of the Nutrition Care Process
Akiko Ichimasa
Maricopa Integrated Health System Maricopa Medical Center, USA

SY38-04 NCP Implementation in Korean Hospitals
Eun Mi Kim
Kangbuk Samsung Hospital, Korea

13:50-15:20  Symposium 39
Recent Topics in Infant Nutrition  Room: 502

Chairperson: Hiroko Kodama (Teikyo Heisei University, Japan)
Tzee-Chung Wu (National Yang Ming University, Taiwan)

SY39-01 Nutritional biotin deficiency in Japan: biotin contents in infant formulas and serum biotin levels in children
Eishin Ogawa¹, Yasuhiro Sato¹, Kenji Wakabayashi², Kahoko Motoyama¹, Hiroko Kodama²
¹Teikyo University School of Medicine, Japan, ²Teikyo Heisei University, Japan

SY39-02 Zinc transporters and zinc deficiency of infants and children
Taiho Kambe
Kyoto University, Japan

SY39-03 Iron deficiency in children
Tzee-Chung Wu
National Yang Ming University, Taiwan

SY39-04 The maternal n-3 fatty acid-deficient diet enhance the hypothalamic-pituitary-adrenal axis responses to stress in rat offspring later in life
Hui-Min Su
National Taiwan University, Taiwan

13:50-15:20  Symposium 40
Positive and Negative Aspect of Health Foods and Dietary Supplements  Room: 503

Chairperson: Keizo Umegaki (National Institute of Health and Nutrition, Japan)
Harunobu Amagase (American Chamber of Commerce in Japan, Japan)

SY40-01 Positive and negative aspects of food with health claims in Japan
Keizo Umegaki
National Institute of Health and Nutrition, Japan

SY40-02 US Dietary Supplement Labeling Rule and Possibility of Medical Cost Reduction
Harunobu Amagase
American Chamber of Commerce in Japan, Japan

SY40-03 Overview of Korean Health Functional Food Regulation
Yang-Hee Cho
Korea Health Supplement Association, Korea
**Program (May 15)**

**May 15 (Friday)**

**10:00-11:30**  
**Sponsored Symposium 01**  
The Use of Nutrient Profiling as a Tool to Improve the Food Environment by Product Reformulation and Beyond  
Room: 303

Sponsored by Nestlé Research Center

Co-chairs:  
Adam Drewnowski (University of Washington, USA)  
Jörg Spieldenner (Nestec SA, Switzerland)

**SS01-01**  
Nutritional Reformulation of Food Products – A Key Strategy for the Promotion of Healthy Diets  
E-Siong Tee  
TES NutriHealth Strategic Consultancy, Malaysia

**SS01-02**  
An Overview of the Profiling Systems in Asia and Their Different Scopes and Applications  
Prapaisri P Sirichakwal¹, Suladda Pongutta²  
¹Mahidol University, Thailand, ²Ministry of Public Health, Thailand

**SS01-03**  
Industry Approach to Nutrition Based Product Development and Reformulation in Asia  
Fabienne Leroy, Antonis Vlassopoulos, Veronique Rheiner Charles, Gabriel Masset, Undine Lehmann, Jörg Spieldenner  
Nestec SA, Switzerland

**10:00-11:45**  
**Sponsored Symposium 02**  
Role of Protein and Amino Acids in Infant and Young Child Nutrition: Considerations for the Development and Delivery of High Quality Complementary Food Supplements  
Room: 418

Sponsored by AJINOMOTO CO., INC.

Chairperson:  
Ricardo Uauy (London School of Hygiene and Tropical Medicine, UK)  
Shibani Ghosh (Tufts University, USA)

**SS02-01**  
Protein Quality is Necessary for Optimal Growth and Human Capital Formation in Early Life  
Ricardo Uauy  
London School of Hygiene and Tropical Medicine, UK

**SS02-02**  
Protein and Amino Acids Requirements in Infants and Young Children  
Anura Kurpad  
St. Johns Medical College, India

**SS02-03**  
Development and Production of a Complementary Food Supplement with Improved Protein, Amino Acid and Micronutrient Profile (KOKO Plus)  
Kwaku Tano-Debrah  
University of Ghana, Ghana

**SS02-04**  
Effect of the Provision of a Complementary Food Supplement with Improved Protein, Amino Acid and Micronutrient Profile (KOKO Plus) on Nutritional Status of Ghanaian Infants at 18 Months of Age  
Shibani Ghosh  
Tufts University, USA

**SS02-05**  
Assessing Program Coverage of Two Market-Based Approaches to Deliver a Complementary Food Supplement to Infants and Young Children in Ghana  
Grant J. Aaron  
Global Alliance for Improved Nutrition, Switzerland

**SS02-06**  
Creating Public-Private Partnership for Better Nutrition of Infants and Young Children  
Yasuhioko Toride  
Ajinomoto Co., Inc., Japan
Sponsored Symposium 03
Benefits of Phytonutrient Supplements and Agricultural Products with Clear Functionality
Room: 418

Sponsored by The General Incorporated Association of International Food & Nutrition

Chairperson: Kazuo Sueki (The General Incorporated Association of International Foods & Nutrition, Yokohama University of Pharmacy, Japan)
Haranobu Amagase (American Chamber of Commerce in Japan, Dietary Supplement subcommittee, Japan)

SS03-01 Current Status of “Research Project on Development of Agricultural Products and Foods with Health-Promoting Benefits (NARO)”
Mari Maeda-Yamamoto
National Food Research Institute, National Agriculture and Food Research Organization (NARO), Japan

SS03-02 Role of Phytonutrients in Enhancement of Human Adaptive Potential
Victor A. Tutelyan
Institute of Nutrition, Russia

SS03-03 Necessity of Phytonutrients Based on Nutrient Gap Study
Keith Randolph
Amway / Nutrilite, USA

May 16 (Saturday)

Sponsored Symposium 04
Dietary intake research with special focus on Asia
Room: 304

Sponsored by Nestlé Research Center

Chairperson: Jeya Henry (Clinical Nutrition Research Centre, Singapore)

SS04-01 Do Chinese children get enough micronutrients?
Huijun Wang, Bing Zhang
Chinese Center for Disease Control and Prevention, China

SS04-02 Sources of Nutrients and Food Consumption Patterns of Infants and Toddlers from Urban China
Liya Denney¹, Gerard Vinyes-Parés², Kathleen Reidy³, Huan Wang⁴, Yumei Zhang⁴, Peiyu Wang⁴
¹Nestlé Research Centre, Switzerland, ²Nestlé R&D Centre, China, ³Nestlé Nutrition Global R&D, USA, ⁴Peking University, China

SS04-03 Food Intake and Nutrient Adequacy of Households with and without 6 months to 10 Year Old Children by Wealth Index and Urbanization
Imelda Angeles-Agdeppa, Adrienne Constantino, Glen Melvin Gironella, Mario V. Capanzana
Food and Nutrition Research Institute, Philippines

Sponsored Symposium 05
Food Synergy, Nutrients, Foods and Dietary Patterns in Disease Risk Reduction: A State of the Science Update, Challenges and Opportunities
Room: 414+415

Sponsored by California Walnut Commission

Chairperson: Connie Diekman (University Nutrition Washington University in St. Louis, USA)

SS05-01 Food, Nutrients, and Whole Diets: Working Across the Layers of Evidence for Practice
Linda Tapsell
University of Wollongong, Australia

SS05-02 Teachings from the PREDIMED Trial
Emilio Ros
Hospital Clinic, University of Barcelona, Spain

SS05-03 The Potential of Whole Foods in Cancer Prevention and Treatment
Daniel W. Rosenberg
University of Connecticut School of Medicine, USA
**Program (May 16 / 17)**

**16:10-17:40  Sponsored Symposium 06  
Micronutrient Fortification Program  
Room: 303**

Sponsored by INTERNATIONAL LIFE SCIENCES INSTITUTE JAPAN

Chairperson:  **Geoffry Smith** (ILSI Southeast Asia Region, Singapore)

SS06-01  **Current Status of Vitamin D Fortification in Korea: Perspectives on Policy, Research, and Industrial Development**
Oran Kwon  
Ewha Womans University, Korea

SS06-02  **Impact of Vitamin D Fortified Milk Supplementation on Vitamin D Status of Healthy School Children Aged 10-14 Years**
Manfred Eggersdorfer\(^1\)\(^2\)
\(^1\)University Medical Center Groningen, the Netherlands, \(^2\)DSM Nutritional Products Ltd., Switzerland

SS06-03  **Ying Yang Bao: Improving Complementary Feeding for China’s Children**
Junsheng Huo, Junshi Chen  
Chinese Center for Disease Control and Prevention, China

**May 17 (Sunday)**

**10:00-11:30  Sponsored Symposium 07  
Evidence based Nutrition from A Molecular to An Epidemiologic Study -The Healthy Effect of Milk and Dairy Products as an Example-  
Room: 414+415**

Sponsored by Japan Dairy Association (J-milk)

Chairperson:  **Tamotsu Kuwata** (University of Human Arts and Sciences, Japan)

SS07-01  **Bioactive Components derived from milk and milk products**
Tadao Saito  
Tohoku University, Japan

SS07-02  **Dairy Foods and Bone Health**
Katherine L Tucker  
University of Massachusetts Lowell, USA

SS07-03  **Milk and Dairy Consumption and Lifestyle-Related Diseases in Japan**
Chisato Nagata  
Gifu University Graduate School of Medicine, Japan

**10:00-12:00  Sponsored Symposium 08  
Bridging the Nutrient Gap - Which Delivery Channels can Effectively Provide the Missing Nutrients?  
Room: 503**

Sponsored by Global Alliance for Improved Nutrition (GAIN) and Sight and Life

Chairperson:  **Regina Moench-Pfanner** (The Global Alliance for Improved Nutrition (GAIN), Singapore)

SS08-01  **Delivery Channels to Close the Nutrient Intake Gap – What to Do without Data?**
Regina Moench-Pfanner  
The Global Alliance for Improved Nutrition, Singapore

SS08-02  **Micronutrient Deficiency Control in Vietnam from Policy and Research to Implementation: Keys for Success, Challenges and Lessons Learned**
Van Khanh Tran\(^1\), Rebecca Spohrer\(^2\), Tuyen Danh Le\(^1\), Alia Poonawala\(^2\), Regina Moench-Pfanner\(^2\)
\(^1\)National Institute of Nutrition, Vietnam, \(^2\)Global Alliance for Improved Nutrition

SS08-03  **Iron Fortified Soy Sauce - Implementation Experience from China**
Junsheng Huo  
Chinese Center for Disease Control and Prevention, China

SS08-04  **Micronutrient Deficiencies - Insights to Effective Interventions**
Klaus Kraemer  
Sight and Life, Switzerland
Program

May 15 (Friday) 12:30-13:30

**LS 1 : Dietary habits for postponing progression of aging in old age**  Room: 301

Sponsored by MORINAGA MILK INDUSTRY CO., LTD.

Chairperson:  Dr. Shuhei Kobayashi  (Japan Food Education Association, Japan)

Prof. Shu Kumagai  
University of Human Arts and Sciences, Japan

**LS 2 : Functional Components in Foods**  Room: 302

Sponsored by Nippon Flour Mills Co., Ltd.

Chairperson:  Prof. Takashi Nagasawa  (Iwate University, Japan)

**Health Function of Lignan from Flaxseeds**
Prof. Takuya Sugahara  
Ehime University, Japan

**Ceramide Related Ingredients from Plants as Functional Food Components**
Prof. Tatsuya Sugawara  
Kyoto University, Japan

**LS 3 : Folic Acid Fortification – a Benefit for Individuals and the Society**  Room: 303

Sponsored by DSM Nutritional Products Asia Pacific

Chairperson:  Prof. Toshio Okano  (Kobe Pharmaceutical University, Japan)

Prof. Manfred Eggersdorfer  
University Groningen, Netherlands

Dr. Atsuo Kondo  
Atsuta Rehabilitation Hospital, Japan

**LS 4 : Anti-dyslipidemic and anti-atherosclerotic effects of fish oil and its mode of action**  Room: 304

Sponsored by Takeda Pharmaceutical Company Limited

Chairperson:  Prof. Masato Odawara  (Tokyo Medical University, Japan)

Prof. Ichiro Tatsuno  
Toho University Sakura Medical Center, Japan

**LS 5 : Nutritional Approach for Diabetes and New Era in Diabetes Therapy**  Room: 311+312

Sponsored by ONO PHARMACEUTICAL CO., LTD.

Chairperson:  Prof. Yutaka Miura  (Tokyo University of Agriculture and Technology, Japan)

Dr. Toshio Hosaka  
Kyorin University School of Medicine, Japan

**LS 6 : Innovative Food Technology Solutions for Meeting Today’s Nutrition and Health Needs**  Room: 313+314

Sponsored by Tate & Lyle

Chairperson:  Dr. Kavita Karnik  (Tate&Lyle, UK)

Prof. Glenn Gibson  
University of Reading, UK
Program

**LS 7 : Functionality of ‘Benifuki’ green tea beverage**
Room: 414+415

Sponsored by Asahi Group Holdings, Ltd.

Chairperson: **Dr. Mari Maeda-Yamamoto** (Natl. Food Res. Institute (NARO), Japan)

Ms. Yuki Shinoda
ASAHI SOFT DORINKS CO., LTD, Japan

**LS 8 : Scientific Updates on Soy and Health**
Room: 416+417

Sponsored by U.S. Soybean Export Council (USSEC)

Chairperson: **Ms. Pauline Chan** (The Nutrition Place, Singapore)

**Soy and Health : Benefits and Controversies**
Dr. Mark Messina
Soy Nutrition Institute, US

**Soy Intake and Risk Stomach Cancer in Japan**
Prof. Chisato Nagata
Gifu University, Japan

**LS 9 : Is Coffee Drinking Beneficial on Glucose Metabolism?**
Room: 418

Sponsored by All Japan Coffee Association

Chairperson: **Dr. Toshitsugu Ishikawa** (Tamachi Tokuei-bldg. Clinic, Japan)

Dr. Suminori Kono
National Institute of Health and Nutrition, Japan

**May 16 (Saturday) 12:30-13:30**

**LS 10 : Diet and Medication in the Management of Type 2 Diabetes: Promising Findings in an Old Couple**
Room: 301

Sponsored by MSD K.K.

Chairperson: **Prof. Hitoshi Ishida** (Kyorin University School of Medicine, Japan)

Dr. Daisuke Yabe
Kansai Electric Power Hospital, Japan

**LS 11 : Protein Quality: Investing in Human Growth and Social Development**
Room: 302

Sponsored by AJINOMOTO CO., INC.

Chairperson: **Dr. Shibani Ghosh** (Tufts University, USA)

Prof. Ricardo Uauy
London School of Hygiene and Tropical Medicine, UK

**LS 12 : Omega Long Chain Fatty Acids – Required Over the Lifecycle**
Room: 303

Sponsored by DSM Nutritional Products Asia Pacific

Chairperson: **Prof. Manfred Eggersdorfer** (University Groningen, Netherlands)

Prof. Yuichiro Yamashiro
Juntendo University, Japan
Japanese Society for Child Nutrition Research

Prof. Stewart Forsyth
University of Dundee, UK
LS 13: Is the Composition of Fatty Acids in Dietary Fat Relevant to Metabolic Syndrome Caused by the Inflammatory Process?  
Room: 304  
Sponsored by AstraZeneca K.K.

Chairperson: Prof. Tatsuya Sugawara (Graduate School of Agriculture, Kyoto University, Japan)

Dr. Mitsuo Ohni  
Kyorin University School of Medicine, Japan

LS 14: Nutritional Properties and Health Benefits of Mayonnaise  
Room: 311+312  
Sponsored by Kewpie Corporation

Chairperson: Prof. Michihiro Sugano (Kyushu University, Prefectural University of Kumamoto, Japan)

Prof. Chizuko Maruyama  
Japan Women's University, Japan

LS 15: Will SGLT2 Inhibitors Bring Us to a New Stage of the Treatment of Obesity and Type 2 Diabetes?  
Room: 313+314  
Sponsored by Nippon Boehringer Ingelheim Co., Ltd. Eli Lilly Japan K.K.

Chairperson: Dr. Shoichiro Nagasaka (Jichi Medical University, Japan)

Dr. Satoshi Ugi  
Shiga University of Medical Science, Japan

LS 16: New Functions and Future Directions of Glutathione  
Room: 414+415  
Sponsored by KYOWA HAKKO BIO CO., LTD.

Chairperson: Prof. Hideyo Sato (Niigata University, Japan)

Prof. Kohji Fukunaga  
Tohoku University, Graduate School of Pharmaceutical Sciences Japan

LS 17: Multifunctional effects of green tea catechins on lipid metabolism  
Room: 416+417  
Sponsored by ITO EN, LTD.

Chairperson: Prof. Kazuo Kondo (Toyo University, Japan)

Prof. Ikuo Ikeda  
Tohoku University, Japan

LS 18: "Allulose" a New Sweetener, Beneficial for the Prevention of Life-style Related Diseases such as Obesity and Diabetes Mellitus  
Room: 418  
Sponsored by Matsutani Chemical Industry Co., Ltd.

Chairperson: Prof. Yasuo Nagata (Nagasaki University, Japan)

Prof. Masaaki Tokuda  
Kagawa University, Japan
Program

May 17 (Sunday) 12:30-13:30

LS 19 : MBP (Milk Basic Protein) as the Functional Ingredient to Increase Bone Density

Room: 302

Sponsored by MEGMILK SNOW BRAND Co., Ltd.

Chairperson:  Prof. Kazuhiro Uenish (Kagawa Nutrition University, Japan)

Prof. Seiichiro Aoe
Otsuma Women's University

LS 20 : The Role of Oils & Fats in Japan, a Country of Highest Overall Life Expectancies

Room: 303

Sponsored by The Nisshin OilliO Group, Ltd.

Chairperson:  Emer. Prof. Hiroshige Itakura (Ibaraki Christian University, Japan)

Prof. Kazuo Kondo
Toyo University, Japan

LS 21 : Tea Goodness and Unilever's Sustainable Living Plan on Voluntary Sugar Reduction

Room: 304

Sponsored by Unilever

Chairperson:  Dr. Kom Kamonpatana (Unilever)

Functions of Tea Catechins and their Applications in Humans
Prof. Yukihiko Hara
Hara Office Inc.

Tea Goodness and Unilever's Sustainable Living Plan on Voluntary Sugar Reduction
Dr. Karen Cunningham
Unilever

LS 22 : Low Carbohydrate Diet and SGLT2 Inhibitors

Room: 311+312

Sponsored by Novartis Pharma K. K.

Chairperson:  Dr. Shinichi Oikawa (Fukujuji Hospital, Japan)

Dr. Koichi Inukai
Higashiyamato Hospital, Japan

LS 23 : Enzyme-Treated Asparagus Extract (ETAS) Induces Heat Shock Protein 70 Expression and Attenuates Stress

Room: 313+314

Sponsored by Amino Up Chemical Co., Ltd.

Chairperson:  Prof. Tatsuya Hisajima (Teikyo Heisei University, Japan)

Dr. Jun-etsu Ogasawara
Kyorin University, Japan

LS 24 : Application of Metabolomics for Evaluation of Food Quality

Room: 414+415

Sponsored by Agilent Technologies Japan, Ltd.

Chairperson:  Dr. Akira Oikawa (Yamagata University, Japan)

Dr. Yoko Iijima
Kanagawa Institute of Technology, Japan
Program

**LS 25 : Hydration: from Daily Intake Habits and Assessment to Cognition and Mood**

Room: 416+417

Sponsored by Danone Nutricia Research

Chairperson:  **Dr. Laurent Le Bellego**  (Danone Nutricia Research, France)

**Fluid Intake Habits in Asian Countries: What Do We Know?**
Dr. Saptawati Bardosono
University of Indonesia, Indonesia

**Assessing Hydration in Adults and Children**
Prof. Stavros A. Kavouras
University of Arkansas, USA

**Influence of Hydration on Cognitive Performance and Mood**
Dr. Nathalie Pross
Biotrial Neurosciences, France

**LS 26 : Walnut Health Research: Current Understandings, Recent Findings and Consumer Views**

Room: 418

Sponsored by California Walnut Commission

Dr. Connie Diekman
Washington University in St. Louis, USA

Dr. Emilio Ros
Lipid Clinic, Endocrinology & Nutrition Service Hospital Clinic, Spain

**LS 27 : Soy Nutrition for Lifestyle Related Disease Risk Reduction -High-risk and Population Approaches to the Prevention**

Room: 501

Sponsored by Otsuka Pharmaceutical Co., Ltd.

Chairperson:  **Dr. Yshaw Watanabe**  (Life Science Promotion Association)

Prof. Yukio Yamori
Mukogawa Women’s University Institute for World Health Development, Japan
**Program**

May 15 (Friday)

18:00-20:00  **ES1**

Dietary Fatty Acids Impact on Health and Disease: Updated  
Room: 418

Sponsored by Malaysian Palm Oil Council (MPOC)

Chairperson:  Dr. Michiaki Murakoshi (Lion Corporation Japan, Japan)

- **Dietary Macronutrients Impact Lipoprotein Particles and CHD Risk**  
  Dr. Kalyana Sundram  
  *Malaysian Palm Oil Council, Malaysia*

- **Lifestyle Nutrition Management for a Healthy Lifestyle**  
  Dr. Jonny Bowden  
  *Consultant, nutritionist & author, USA*

Meal service: Sandwiches

18:00-20:00  **ES2**

Collagen Peptide Seminar-Impact of Ingestion of Collagen Peptide on Skin Conditions  
Room: 419

Sponsored by The Japanese Society of Food Engineering

Chairperson:  Dr. Yoshihiro Nomura (Tokyo University of Agriculture and Technology)  
Dr. Kenji Sato (Graduate School of Agriculture, Kyoto University)

- **Presence of food-derived collagen peptides in human and animal bloods**  
  -Their biological functions-  
  Dr. Kenji Sato  
  *Graduate School of Agriculture, Kyoto University, Japan*

- **Ingestion of bioactive collagen hydrolysates enhanced facial skin moisture and elasticity and reduced facial aging signs in a randomized double-blind placebo-controlled clinical study**  
  Dr. Naoki Inoue  
  *Nitta Gelatin Inc., Japan*

- **Effects of collagen peptide ingestion on the skin and immune status**  
  Dr. Kazunori Mizuno  
  *Nippi Inc., Japan*

Meal service: Sandwiches
Program

18:00-20:00  ES3  
Aging and Muscle Loss: Dietary Approaches to Reduce Sarcopenia Risk  
Room: 503

Sponsored by U.S.Dairy Export Council (USDEC)

Chairperson:  Dr. Motoni Kadowaki (Niigata University, Japan)

Dr. Douglas Paddon-Jones  
The University of Texas Medical Branch, USA

Dr. Shuichi Machida  
Juntendo University, Japan

Panelist

Dr. Moon- Jeong Chang  
The College of Natural Science Kookmin University, Korea

Dr. Cuiqing Chang  
Peking University Third Hospital, China

Dr. Kazuko Ishikawa-Takata  
National Institute of Health and Nutrition, Japan

Meal service: Sandwiches and meal coupon to all participants  
(Coupons can be used in 190 restaurants in Minato Mirai area after seminar)

18:00-19:00  ES4  
Future Perspective of R&D on Lactic Acid Bacteria in the Food Industry  
Room: 414+415

Sponsored by NISSIN FOODS HOLDINGS CO., LTD.

Dr. Soichi Tanabe  
Advisor, Nissin Foods Holdings, Professor, Hiroshima University

Meal service: Sandwiches
Program

May 15 (Friday)

10:00-11:30   FANS Report 01   Room: 313+314

Chairperson:  Jeyakumar Henry  (Clinical Nutrition Research Centre, Singapore Institute of Clinical Sciences, A*STAR, Singapore)

FR01-01  Development of home based appropriate complementary food for Bangladeshi children
S K Roy¹, I Kabir¹, S Khatoon¹, K Jahan¹, N Sultana¹, I Jahan², M A Mannan², L Bhattacharjee²
¹Bangladesh Breastfeeding Foundation, Dhaka, ²National Food Policy Capacity Strengthening Programme; Food and Agriculture Organization of the United Nations

FR01-02  China Report: Chinese Dietary Guideline Development
Duo Li
Zhejiang University, China

FR01-03  Tackling Non-communicable Diseases Through the Nutrition Policy and Promotion in Hong Kong – a Life Course Approach
Gordon Cheung
Hong Kong Nutrition Association, Hong Kong

FR01-04  Nutrition Status in India - Issues and Way Forward
R. Hemalatha
National Institute of Nutrition (NIN), Indian Council of Medical Research (ICMR), Ministry of Health & Family Welfare, Govt. of India

FR01-05  Current Nutrition-Health Status and Programs of Indonesia
Hardinsyah¹,², Doddy Izwardy³
¹Food and Nutrition Society of Indonesia, Indonesia, ²Bogor Agricultural University, Indonesia, ³Ministry of Health, Indonesia

FR01-06  Nutrition Situation, Science and Practice in Iran
Majid Hajifaraji
Iranian Nutrition Society, Iran, Shahid Beheshti University of Medical Sciences, Iran

13:50-15:20   FANS Report 02   Room: 313+314

Chairperson:  Chin-Kun Wang  (Chung Shan Medical University, Taiwan)

FR02-01  JAPAN / Regional Report on Health and Nutrition
Yoshiharu Shimomura
Japan Society of Nutrition and Food Science (JSNFS), Japan

FR02-02  Korean Nutrients Intakes based on Korea National Health and Nutrition Examination Survey
Youn-Ok Cho
Duksung Women’s University, Korea

FR02-03  Current Situation and Emerging Issues in Nutrition and Health in Lebanon
Krystel Ouaijan
Lebanese Academy of Nutrition and Dietetics, Lebanon

FR02-04  President, Nutrition in Malaysia – Issues and Interventions
E-Siong Tee
Nutrition Society of Malaysia, Malaysia

FR02-05  Present Nutrition Status of Mongolian Population
Enkhtaivan Gombosuren, Purevjav Mejeenov
Mongolian University of Science and Technology, Mongolia

FR02-06  Nutrition Status of Pakistan
Hamid Ullah Shah, Parvez Iqbal Paracha
Nutrition Society of Pakistan, Pakistan
### Program (May 15)

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<td><strong>FANS Report 03</strong></td>
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<td><strong>Chairperson:</strong> Natalie Goh (Secretary General, FANS)</td>
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<td><strong>FR03-01</strong></td>
<td><strong>Philippine Health and Nutrition Situation on the Upswing</strong></td>
<td>Rodolfo F. Florentino</td>
<td>Nutrition Foundation of the Philippines, Philippines</td>
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<td><strong>FR03-02</strong></td>
<td><strong>Country Report - Nutrition Promotion and Programs in Singapore</strong></td>
<td>Pauline Chan</td>
<td>Singapore Nutrition and Dietetics Association (SNDA), Singapore</td>
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<td><strong>FR03-03</strong></td>
<td><strong>Nutritional Issues and Interventions in Sri Lanka</strong></td>
<td>UPK Hettiaratchi</td>
<td>Nutrition Society of Sri Lanka, University of Sri Jayewardenepura, Sri Lanka</td>
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<td><strong>FR03-04</strong></td>
<td><strong>Nutrition Society of Taiwan – The 40th Anniversary</strong></td>
<td>Guoo-Shyng Wang Hsu</td>
<td>Nutrition Society of Taiwan, Taiwan</td>
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<td><strong>FR03-05</strong></td>
<td><strong>Thailand Country Report on Health and Nutrition</strong></td>
<td>Viriyautsahakul N(^1), Suthutvoravut U(^2,3)</td>
<td>Ministry of Public Health, Thailand; Faculty Medicine Ramathibodi Hospital, Mahidol University, Thailand; Nutrition Association of Thailand under the Patronage of Her Royal Highness Princess Maha Chakri Sirindhorn, Thailand</td>
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<td><strong>FR03-06</strong></td>
<td><strong>Double Burden of Malnutrition in Vietnam: Current Situation, Main Issues and Measures Taken</strong></td>
<td>Le Thi Hop</td>
<td>President of Vietnam Nutrition Association, Vietnam</td>
</tr>
</tbody>
</table>

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**Notes:**
1. Ministry of Public Health, Thailand;
2. Faculty Medicine Ramathibodi Hospital, Mahidol University, Thailand;
3. Nutrition Association of Thailand under the Patronage of Her Royal Highness Princess Maha Chakri Sirindhorn, Thailand
Program (May 15)

May 15 (Friday)

Oral Session 01

10:00-12:00  Diabetes/Cancer

Chairperson:  Toshiho Hosaka (Kyorin University School of Medicine, Japan)
              Hisami Yamanaka-Okumura (University of Tokushima Graduate School, Japan)

OS01-1  Oral administration of Bifidobacterium spp. improves insulin resistance, induces adiponectin and prevents inflammatory adipokine expressions
Toshiho Hosaka1, Chung Thi Kim Le2, Kouichi Inukai1, Hitoshi Ishida1
1Kyorin University School of Medicine, Japan, 2National Institute for Food Control, Vietnam

OS01-2  Effectiveness of vitamin D-fortified yogurt drink on glycemic status and endothelial biomarkers in subjects with type 2 diabetes
Shab-Bidar Sakineh
School of Nutritional Sciences and Dietetics, Teheran University of Medical Sciences, Iran

OS01-3  The relationship of glycemic control and dietary patterns to the sleep quality on type 2 diabetes patients
Szu-Hua Chen1, Yau-Jiunn Lee1, Jia-Yau Doong2
1Lee’s Endocrinology Clinic, Taiwan, 2Foot’n University, Taiwan

OS01-4  The dawn of the diabetic diet therapy for diabetic dialysis patients in Japan: the wonderful effect of basic carbohydrate counting
Toru Hyodo1,2,3, Noriko Mikami4, Yuki Kitajima5, Daisuke Ishii6, Kazunari Yoshida2, Masatsugu Iwamura2, Miho Hida4, Yasuhsa Kurata4
1Eijin Clinic Dialysis Center, Japan, 2Kitasato University, Japan, 3Sen Sok International University, Cambodia, 4Kurata Hospital, Japan, 5Tokyo Healthcare University, Japan

OS01-5  Folate, MTHFR C677T polymorphism and risk of colorectal cancer among Thais
Pornpimol Panprathip1, Rungsun Tungtromgchitr1, Theranan Sappajit2, Sahaphol Anannamcharoen2, Boonchol Ngamsirimas3, Karunee Kwanbunjan1
1Mahidol University, Thailand, 2Phramongkutklao Hospital, Thailand, 3BMA Medical College and Vajira Hospital, Thailand

OS01-6  Effect of hepatectomy on energy metabolism in patients with liver cancer and cholangiocarcinoma by the difference of resection volume
Shoko Wada1, Hisami Yamanaka-Okumura1, Yutaka Taketani1, Takafuli Katayama2, Yusuke Arakawa1, Satoru Imura1, Mitsuo Shimada1, Eiji Takeda1
1University of Tokushima Graduate School, Japan, 2University of Hyogo, Japan

OS01-7  Serum lipid profiles of newly diagnosed breast cancer patients in Sri Lanka
Kasuni Akalanka, Sagarika Ekanayake, Kamani Samarasinghe
University of Sri Jayewardenepura, Sri Lanka

OS01-8  Nutritional status of colorectal cancer patients undergoing chemotherapy
Zalina Abu Zaid1, Kathryn Jackson1, Mirnalini Kandiah2, Lynne Cobiac3
1Flinders University, Australia, 2UCSI University, Malaysia, 3National Research Flagship, Australia

Oral Session 02

10:00-11:00  Diabetes 1

Chairperson:  Hiroyasu Inoue (Nara Women’s University, Japan)
              Hitoshi Ashida (Kobe University, Japan)

OS02-1  Artificial Instant Rice Using Composite Flour (Yam, Rice, And Soybeans) Had Low Glycemic Index and Glycemic Load than White Rice
Yosfi Rahmi1, Dwi Yuwono Kristianto1, Rizhal Yahya1, Arif Sapta Aji1, Rois Alfarisi1, Slamet Budijanto2, Dian Handayani1
1University of Brawijaya, Indonesia, 2University of Agricultural Bogor, Indonesia
Program (May 15)

OS02-2  Relative Effect of Apparent Amylose Content on Glycemic Response and Short-term Satiety of Cooked Milled Non-Waxy Indica Rices
Arvin Paul P. Tuano¹, Angelina dR. Felix², Trinidad P. Trinidad², Aida C. Mallillin³, Rosario S. Sagum³, Bienvenido O. Juliano³
¹Philippine Rice Research Institute Los Banos, Philippines, ²University of the Philippines Los Banos, Philippines, ³Food and Nutrition Research Institute, Philippines

OS02-3  Rare sugar D-psicose (D-allulose) prevents progression and development of diabetes in Type 2 Diabetes Mellitus model Otsuka-Long-Evans-Tokushima Fatty (OLETF) rats
Akram Hossain¹,², Li Sui³, Fuminori Yamaguchi⁴, Kazuyo Kamitori⁴, Youyi Dong⁴, Ikuko Tsukamoto⁴, Tetsuo Iida⁵, Masaaki Tokuda¹
¹Kagawa University, Japan, ²Kazama University, Japan, ³Matsutani Chemical Industry Co. Ltd., Japan

OS02-4  Chemoprevention of Phenolic Acids, Anthocyanins, and Proanthocyanidins from Black Glutinous Rice Bran and Synergistic Anti-inflammation Study
Paradorn Ngamdee¹, Sudarat Jiamyangyuen¹, Kirk L Parkin²
¹Naresuan University, Thailand, ²University of Wisconsin-Madison, USA

OS02-5  Cacao extract inhibits adipogenesis through suppressing the expression of PPAR gamma and C/EBP alpha
Hitoshi Ashida, Takakazu Mitani, Liuqing Wang, Yoko Yamashita
Kobe University, Japan

Oral Session 03
Room: 302

11:00-12:00  Diabetes 2
Chairperson:  Tsuguhito Ota (Kanazawa University, Japan)
             Toshiro Matsui (Kyushu University, Japan)

OS03-1  Broccoli sprouts improves high fat diet-induced inflammation and insulin resistance by regulating both macrophage recruitment and M1/M2 status in liver
Naoto Nagata¹, Yusuke Ushida², Yudai Aoki², Ryoei Umeda², Satoshi Sunabori², Liang Xu¹, Fen Zhuge¹, Yuniko Sakai¹, Hiroyuki Suganuma², Tsuguhito Ota¹
¹Kanazawa University, Japan, ²Kagome Co. Ltd., Japan

OS03-2  Ferulic acid improves acetylcholine-induced nitric oxide production via up-regulation of argininosuccinate synthase in TNF-alpha-stimulated inflammatory human umbilical vein endothelial cells
Mitsuru Tanaka, Jian Zhao, Aki Suyama, Toshiro Matsui
Kyushu University, Japan

OS03-3  6-O-Caffeoylsophorose enhances glucose uptake in L6 myoblasts by inducing GLUT4 translocation
Gonzalo Miyagusuku-Cruzado¹, Masaya Kono¹, Kayo Yoshiyama², Keiichi Fukui², Norihiro Terahara², Toshiro Matsui¹
¹Kyushu University, Japan, ²JA Miyazaki, Japan

OS03-4  Is Benincasa hispida Able to Reduce Blood Glucose Level in Diabetic Rats?
Fatariah Zakaria, Wan Rosli Wan Ishak, Ng Sze Han, Mohd Shazwan Zain, Wan Amir Nizam Wan Ahmad
Universiti Sains Malaysia, Malaysia

Oral Session 04
Room: 311+312

10:00-12:00  Nutrition Education:From Assessment to Intervention
Chairperson:  Midori Ishikawa (National Institute of Public Health, Japan)
             Rie Akamatsu (Ochanomizu University, Japan)

OS04-1  Using PRECEDE Model to Develop Nutrition Education Program for mid-low income Islamic Elementary School Children in Urban Area of Indonesia
Risatiati Kolopaking¹, Fajar Ariyanti¹, Umi Fahmida², Agus Firmansyah², Elvina Karyadi³, Luh PS Haryanti¹
¹Universitas Islam Negeri Syarif Hidayatullah Jakarta, Indonesia, ²Universitas Indonesia Jakarta, Indonesia, ³Indonesian Medical Nutrition Association Jakarta, Indonesia
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<td>Tele Tubbies: TV Food Advertising and Intention to Eat Unhealthily Among Children in Singapore</td>
<td>Andrew Z. H. Yee 1,2, May Oo Lwin 1,2</td>
<td>1Wee Kim Wee School of Communication &amp; Information, Singapore, 2Nanyang Technological University, Singapore</td>
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<td>OS04-3</td>
<td>Planning of mid-day meal as part of nutrition intervention programme for a rural school in Sri Lanka</td>
<td>Renuka Silva 1, Thamlini Joshepkumar 1, Janandani Nanayakkara 1, Dilani Hettiarchichi 2</td>
<td>1Wayamba University of Sri Lanka, Sri Lanka, 2Unilever Sri Lanka Limited, Sri Lanka</td>
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<td>OS04-4</td>
<td>Impact of Teacher-Led Healthy Lifestyle Intervention Program on the Knowledge, Attitude and Practice among Malaysian Adolescents Living in School Hostels</td>
<td>YitSiew Chin, ChianYi Teng, ChuChien Hiew, Mat Norhayati, YokeMun Chan, Mohd Taib Mohd Nasir</td>
<td>Universiti Putra Malaysia, Malaysia</td>
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<td>OS04-5</td>
<td>Effectiveness of a culturally appropriate lifestyle modification programme in reversing prediabetes in urban Sri Lankan women</td>
<td>Indu Waidyatilaka 1, Pulani Lanerolle 1, Rajitha Wickremasinghe 2, Sunethra Atukorala 1, de Silva Angela 1</td>
<td>1University of Colombo, Sri Lanka, 2University of Kelaniya, Sri Lanka</td>
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<td>OS04-6</td>
<td>Development of Nutrition Educational Tool Using Carbohydrate Counting for Thai Children with type 1 Diabetes</td>
<td>Vivan Srivisal, Chatrapa Hudthagosol, Rewadee Chongsuwat, Supawadee Likitmaskul</td>
<td>Mahidol University, Thailand</td>
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<td>OS04-7</td>
<td>Evaluation of Cognitive and Behavioral Effects of new Media Education way Intervention to eating out in junior class university students</td>
<td>Ping Hu, Lu Lu, Wenjie Huang, Yan Zhang, Huan Zeng, Fan Zhang, Yong Zhang, Yong Zhao</td>
<td>Chongqing Medical University, China</td>
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<td>OS04-8</td>
<td>A Framework for Locating Local Sustainable Food in Type II Diabetes Nutrition Education in Rural Canada</td>
<td>Donna M Appavoo</td>
<td>Ryerson University, Canada</td>
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### Oral Session 05

**Room: 301**

**13:50-15:20 Obesity/Cardiovascular Diseases**

**Chairperson:** Yutaka Taketani (University of Tokushima, Japan)
Kazuko Ishikawa-Tanaka (National Institute of Health and Nutrition, Japan)

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<td>Desire for protein and sweetness is stimulated by dietary habits of high fat intake</td>
<td>Hiroshi Tatano 1, Hisami Yamanaka-Okumura 1, Bei Zhou 1, Yutaka Taketani 2, Takaumi Katayama 2, Eiji Takeda 1</td>
<td>1University of Tokushima Graduate School, Japan, 2University of Hyogo, Japan</td>
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<td>Kiyoharu Aizawa 1, Mayumi Kasamatsu 2, Sosuke Amano 1, Makoto Ogawa 2, Kazuko Ishikawa-Takata 3</td>
<td>1The University of Tokyo, Japan, 2Foo.log Inc., Japan, 3National Institute of Health and Nutrition, Japan</td>
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<td>OS05-3</td>
<td>Effects of EGCG and caffeine on food intake and fat accumulation in mice</td>
<td>Litong Liu 1, Kazutoshi Sayama 1, Yukihiko Hara 2</td>
<td>1Shizuoka University, Japan, 2Hara Office Inc., Japan</td>
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<td>Roseline Wai Kuan Yap 1, Yoshihiro Shidoji 2, Wai Sum Yap 3</td>
<td>1Taylor’s University, Malaysia, 2University of Nagasaki, Japan, 3UCSI University, Malaysia</td>
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<td>Effects of Fish Oil Supplementation on Biochemical Profile of Obese Children</td>
<td>Md. Yusop Nor Baizura 1, Mohd Shariff Zaillah 1, Ting Tzer Hwu 1, Abd Talib Ruza 2, Nicola Spurrier 3</td>
<td>1Universiti Putra Malaysia, Malaysia, 2Universiti Kebangsaan Malaysia, Malaysia, 3Flinders University and Flinders Medical Centre, Australia</td>
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Program (May 15)

OS05-7  Comparative Efficiency of Hypolipidemic Effect of Epa/Dha Direct Supplementation and by Fortified Eggs
Amina Chughtai, Muhammad Nasir, Saeed Ahmad Nagra, Tahreem Hussain
University of Veterinary & Animal Sciences, Pakistan

Oral Session 06

13:50-15:20  Antioxidant

Chairperson:  Rie Mukai (The University of Tokushima, Japan)
Kei Nakajima (Kuki General Hospital)

OS06-1  Genetic and seasonal discriminations of Shiikuwash {Citrus depressa Hayata} peel oils using aroma compositional, MS-based electronic nose, and antioxidant analyses
Yonathan Asikin¹, Goki Maeda², Naoto Hirose², Masami Mizu³, Hironori Iwasaki⁴, Hirosuke Oku⁵,
Koji Wada⁶
¹University of the Ryukyus, Japan, ²Okinawa Prefectural Agricultural Research Center, Japan, ³Mitsui Sugar Co., Ltd., Japan

OS06-2  Chemical Science / Functional Foods
Chou Hsuan, Liao Hui-Jui
Chung Sang Medical University, Taiwan

OS06-3  Choline Esters in Fermented Food
Kozo Nakamura¹, Masahiro Koyama¹, Eri Morita¹, Sho Okitsu¹, Naoki Igari²
¹Shinshu University, Japan, ²Daiwa Pharmaceutical Co., Ltd., Japan

OS06-4  Gene expressions of HO-1 and inflammatory factors in HUVECs are drastically induced by palmitic acid and diversely modulated by polyphenols
Yoshimi Kishimoto, Norie Suzuki-Sugihara, Emi Saita, Chie Taguchi, Kazuo Kondo
Ochanomizu University, Japan

OS06-5  Dietary quercetin prevents disuse muscle atrophy of denervated mice through regulation of mitochondrial biogenesis
Rie Mukai, Naoko Matsui, Takeshi Nikawa, Junji Terao
Tokushima University, Japan

OS06-6  Effects of rice protein on antioxidative capacity and oxidative stress in growing and adult rats
Lin Yang, Hui Li, Ye Liu, Jixiang Cai, Chi Shao, Yue Zhang, Gengyong Zhou
Harbin Institute of Technology, China

OS06-7  Evaluation of Plant Food Extracts in Experimental Model of Alzheimer’s Like Disease in Rats
Sahar Y Al-Okbi¹, Doha A Mohamed¹, Mohamed Abdel Fatah², Kholoud Abdel Aal²,
Shaimaa E Mohammed¹
¹National Research Centre, Egypt, ²Ain Shams University, Egypt

Oral Session 07

13:50-15:20  Nutrition Education on Enhancing the Quality of Diet

Chairperson:  Hidemi Takimoto (National Institute of Health and Nutrition, Japan)
Lwin Mar Haing (Ministry of Health, Myanmar)

OS07-1  The Benefit of Breastfeeding Counselling and Education Class Brought by Mother-based Breastfeeding Counsellors
Sari Intan Kailaku, Irma Afriyanti Bakhtiyari, Rachmadhani Yuniarco, Astri Pramarini
Indonesian Breastfeeding Mothers’ Association, Indonesia

OS07-2  Can an optimized diet reduce the risk of iron supplementation on other micronutrients and growth of 12-23-month old Myanmar children?
Lwin Mar Haing¹,², Umi Fahmida³, Min Kyaw Htet⁴, Budi Utomo⁵, Agus Firmansyah², Rosalind S. Gibson⁶
¹Ministry of Health, Myanmar, ²University of Indonesia, Indonesia, ³Trisakti University, Indonesia, ⁴University of Otago, New Zealand
**Program (May 15)**

**OS07-3** Nutrition Education Intervention Improves Nutrition Knowledge And Attitude Of Mothers Who Have Children Aged 6 Months To 3 Years  
Chatrapa Hudthagosol, Promluck Somboonpanyakul, Rutchanee Wuttiwan  
Mahidol University, Thailand

**OS07-4** Community-based participatory nutrition promotion program improved child feeding practices among caregivers in rural Eastern Ethiopia: a cluster randomized trial  
Yunhee Kang¹, Lemma Debele², Youn Kyoung Suh³, Hee-Soon Juon⁴, Parul Christian¹  
¹Johns Hopkins Bloomberg Schools of Public Health, USA, ²World Vision Ethiopia, Ethiopia, ³Research and Nutrition Strategy Team, WTH, Korea, ⁴Thomas Jefferson University, USA

**OS07-5** The effectiveness of nutrition education program, focus groups and instructional media, amongst mothers of children 6 months to 3 years  
Rutchanee Wuttiwan, Chatrapa Hudthagosol, Cholrit Luangjinda, Promluck Somboonpanyakul  
Mahidol University, Thailand

**OS07-6** Community-oriented motivation: the driving force of community health workers to volunteer and give health/nutrition education in urban slum environment  
Hartanti S. Wijayanti¹, Lindawati Wibowo²  
¹Diponegoro University, Indonesia, ²University of Indonesia, Indonesia

**Oral Session 08 Room: 301**

**16:10-17:40 Chronic Diseases/Diabetes**

Chairperson: Hisayuki Uneyama (Ajinomoto Co., Inc., Japan)

**OS08-1** High prevalence of vitamin B12 deficiency in patients with Crohn's disease  
Misora Ao¹, Hidemi Tsuji², Yuki Kosaka², Akari Noda³, Hiroshi Nakase³, Kenichiro Shide³, Tsutomu Chiba³, Nobuya Inagaki³, Kiyoshi Tanaka¹  
¹Kyoto Women’s University, Japan, ²Kyoto University Hospital, Japan, ³Kyoto University, Japan

**OS08-2** The effect of dietary omega-6/omega-3 fatty acid ratio on muscle mass in hemodialysis patients  
Te Chih Jim Wong¹, Yu Tong Chen¹, Pei Yu Wu¹, His Hsien Chen¹, Shwu Huey Yang¹  
¹Taipei Medical University, Taiwan, ²Taipei Medical University Hospital, Taiwan

**OS08-4** Effect of L-theanine on glutamatergic function in patients with schizophrenia  
Miho Ota¹, Chisato Wakabayashi¹, Kotaro Hattori¹, Toshiya Teraishi¹, Hiroshi Kunugi¹, Hayato Ozawa³, Tsutomu Okubo²  
¹National Center of Neurology and Psychiatry, Japan, ²Taiyo Kagaku Co., Ltd, Japan

**OS08-5** Dietary intervention with fish and cod liver oils improve health status and decreased IgE concentration of children with asthma  
Mohamed Saleh Ismail¹, Laila Ahmed El-Bedewe², Ali Mahmoud El-Shafie³, Nahla Hassan Gad³  
¹Dammam University, Saudi Arabia, ²Minufiya University, Egypt

**OS08-6** Essential Fatty Acid and Micronutrient Therapy on Children with Attention Deficit/ Hyperactive Disorder (ADHD) in Indonesia: A Systematic Review  
Amalia Shabrina, Ryza Maulana Putra, Salma Nabila, Arizta Primadyanti  
University of Indonesia, Indonesia

**OS08-7** Risk of the malnutrition in the elderly due to umami-taste sensitivity loss assessed by the newly developed umami-taste sensitivity test  
Shizuko K. Satoh¹, Noriaki Shoji¹, Misako Kawai², Hisayuki Uneyama², Takashi Sasano¹  
¹Tohoku University, Japan, ²Ajinomoto Co., Inc., Japan
### Oral Session 09

**Program (May 15)**

**Oral Session 09**

16:10-17:40 **Chemical Sense/Functional Foods**

**Chairperson:** Toshihide Nishimura (Nippon Veterinary and Life Science University, Japan)
Tatsuo Watanabe (University of Shizuoka, Japan)

**OS09-1**

**Effect of low-molecular taste compounds in the chicken stock on the Sensory Strength of the Aroma**

Toshihide Nishimura\(^1\), Shingo Goto\(^1\), Ai Egusa Saiga\(^1\), Yukiko Takakura\(^2\)

\(^1\)Nippon Veterinary and Life Science University, Japan, \(^2\)Ajinomoto Co., Japan

**OS09-2**

**Sulfur-containing volatiles of durian activate the thermogenesis-inducing receptors TRPA1 and TRPV1**

Yuko Terada\(^1\), Takashi Hosono\(^2\), Taiichiro Seki\(^3\), Toyohiko Ariga\(^4\), Sohei Ito\(^1\), Masataka Narukawa\(^1\), Tatsuo Watanabe\(^1\)

\(^1\)University of Shizuoka, Japan, \(^2\)Nihon University, Japan

**OS09-3**

**Fluorescence imaging in vivo visualizes delayed gastric emptying of liquid enteral nutrition containing pectin**

Ippei Yamaoka, Naoyuki Endo, Tomohiro Kagawa, Goro Ebisu, Hiroshi Ikawari
Otsuka Pharmaceutical Factory, Inc., Japan

**OS09-4**

**A multi-faceted omics study on the mechanism of the suppressive effect of egg shell membrane on DSS-induced colitis in mice**

Eri Saito\(^1\), Manaka Hanate\(^1\), Jia Huijuan\(^1\), Aw Wanping\(^2\), Yukio Hasebe\(^3\), Shinji Fukuda\(^2\), Masaru Tomita\(^2\), Hisanori Kato\(^1\)

\(^1\)The University of Tokyo, Japan, \(^2\)Keio University, Japan, \(^3\)ALMADO Inc., Japan

**OS09-5**

**Prolyl-hydroxyproline Contributes to the Effects of Dietary Collagen on Gene Expression in the Skin**

Phuong Le Vu\(^1\), Ryo Takatori\(^1\), Taku Iwamoto\(^1\), Yutaka Akaqgi\(^1\), Hideo Satsu\(^1,2\), Mamoru Totsuka\(^1\), Kazuhiro Chida\(^1\), Kenji Sato\(^1\), Makoto Shimizu\(^1,4\)

\(^1\)The University of Tokyo, Japan, \(^2\)Maebashi Institute of Technology, Japan, \(^3\)Kyoto Prefectural University, Japan, \(^4\)Tokyo University of Agriculture, Japan

**OS09-6**

**Effect of 10-month Provision of High-calcium Milk and Weight-bearing Exercise on Bone Mineral Status of 7-8 y/o Prepubertal Girls**

Cherry C. Maramag, Pura Rayco-Solon, Juan Antonio A. Solon
Nutrition Center of the Philippines, Philippines

**OS09-7**

**Oral administration of Japanese sake yeast (Saccharomyces cerevisiae sake yeast) promotes non-rapid eye movement sleep in mice**

Yoshitaka Nakamura\(^1,2\), Tomomi Sano\(^1\), Tatsuyuki Midorikawa\(^1\), Michiaki Murakoshi\(^1,3\), Keikichi Sugiyama\(^1,4\), Hoyoku Nishino\(^1,4\), Yoshihiro Urade\(^5\)

\(^1\)Lion Corporation, Japan, \(^2\)WPI-IIS University of Tsukuba, Japan, \(^3\)Kyoto Prefectural University of Medicine, Japan, \(^4\)Ritsumeikan University, Japan

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### Oral Session 10

**Room: 311+312**

16:10-17:40 **Lipids**

**Chairperson:** Naohiro Gotoh (Tokyo University of Marine Science and Technology, Japan)
Kaeko Murota (Kinki University, Japan)

**OS10-1**

**Cholesterol-lowering effect of rice bran protein containing bile acid-binding proteins**

Jilite Wang\(^1\), Yukina Kato\(^1\), Hiroshi Shimoda\(^2\), Masaya Shimada\(^1\), Satoshi Nagaoka\(^1\)

\(^1\)Gifu University, Japan, \(^2\)Onyza Oil & Fat Chemical Co., Ltd., Japan

**OS10-2**

**Fat deposition and lipid peroxidation in the liver of mature rats fed high-fat diet**

Saki Hayasaka\(^1\), Shunji Kato\(^1\), Fumiko Kimura\(^1\), Kiyotaka Nakagawa\(^1\), Katsuhiro Izumisawa\(^2\), Teruo Miyazawa\(^1\)

\(^1\)Tohoku University, Japan, \(^2\)Eisai CO., Ltd., Japan
Program (May 15 / 16)

OS10-3 Association of nonalcoholic steatohepatitis with atherogenic lipoprotein profile and electronegative-LDL in a high fat/high cholesterol diet fed hamster model
Yu-Sheng Lai, Shao-Chun Lu, Po-Chao Huang
National Taiwan University, Taiwan

OS10-4 Digestion and absorption of phospholipids as a dietary source of docosahexaenoic acid in rats
Kaeko Murota¹, Mika Takagi¹, Kumamoto Shun¹, Okubo Takeshi², Tokumura Akira³
¹Kinki University, Japan, ²NOF Corporation, ³Yasuda Women's University, Japan

OS10-5 The effect of hydroxy and oxo fatty acids generated by Lactobacillus plantarum on oxidative stress
Hidehiro Furumoto¹, Thamarat Nanthirudjanan¹, Kume Toshiaki¹, Si-Bum Park¹, Nahoko Kitamura¹, Shigenobu Kishino¹, Jun Ogawa¹, Takashi Hirata¹,², Tatsuya Sugawara¹
¹Kyoto University, Japan, ²Shijonawate Gakuen University, Japan

OS10-6 Trans-octadecenoic acid positional isomers have different accumulation and catabolism properties in mice
Fumiaki Beppu¹, Masaharu Asanuma¹, Yoshinori Kawamura¹, Toshiharu Nagai², Kazuaki Yoshinaga², Hoyo Mizobe³, Koichi Kojima³, Naohiro Gotoh³, Naohiro Gotoh³
¹Tokyo University of Marine Science and Technology, Japan, ²Tsukishima Foods Industry Co. Ltd., Japan

OS10-7 Polyunsaturated fatty acids in lipoproteins stimulate neurite outgrowth of hippocampal neurons
Michinori Matsuo¹, Mitsuhiro Nakato², Kazumitsu Ueda²
¹Kyoto Women’s University, Japan, ²Kyoto University, Japan

May 16 (Saturday)

Oral Session 11 Room: 301

10:00-11:30 Gene expression and Nutrigenomics
Chairperson: Norihisa Kato (Hiroshima University, Japan)
Akane Higashi (Kyoto Prefectural University)

OS11-1 Effect of Ingestion of Low Dose of Ethanol on the Senescence in Senescence-Accelerated Mice (SAMP8)
Churan Fu¹, Akiko Kimoto¹, Aimi Osaki¹, Hanae Izu², Tsutomu Fujii³, Norihisa Kato¹
¹Hiroshima University, Japan, ²National Research Institute of Brewing, Japan

OS11-2 Effects of dietary high-fat feeding on gene expression of beta-carotene and retinoids metabolism-related enzymes in small intestine and liver
Sachiko Takase¹,², Miki Igarashi¹, Noriaki Yamaguchi¹, Toshinao Goda¹, Kazuhito Suruga²
¹The University of Shizuoka, Japan, ²University of Nagasaki Siebold, Japan

OS11-3 A nutrigenomic evaluation of the suppression of Complete Freund’s adjuvant induced murine arthritis by Manuka Honey dietary intervention
Wanping Aw¹,², Huijuan Jia¹, Shinji Fukuda², Manaka Hanate¹, Masaru Tomita², Hisanori Kato¹
¹The University of Tokyo, Japan, ²Keio University, Japan

OS11-4 Hepatic genome-wide expression of lipid metabolism in diet-induced obesity rats -treated with cocoa polyphenols
Faisal Hassan Ali¹, Amin Ismail¹, Norhaizan Essa¹, Chong Pei², Sander Kersten³
¹Universiti Putra Malaysia, Malaysia, ²Wageningen University, Netherlands

OS11-5 Profiles of muscle-enriched circulating microRNAs in response to acute and chronic exercise in young men
Wataru Aoi, Hiroyuki Ichikawa, Sayori Wada, Akane Higashi
Kyoto Prefectural University, Japan
OS11-6  A Common Variant in the FTO Gene and Macronutrient Intake is Associated with Obesity Risk Among Filipino Adults  
Jacus S. Nacis1, Frances Isabelle B. Jacalan1, Marietta P. Rodriguez1, Celeste C. Tanchoco2, Mina Grace C. Aquino1  
1Food and Nutrition Research Institute, Philippines, 2Nutritionist-Dietitian’s Association of the Philippines, Philippines

OS11-7  Associations of CLOCK 3111 T/C SNP with circadian rhythmicity of appetite sensations and gastric motility in young women  
Narumi Nagai1, Naoko Motokukbota1, Naho Komai1, Mitsue Yamaguchi2, Kokoro Tsuzaki3, Kazuhiiko Kotani4, Naoki Sakane3, Toshio Moritani3  
1University of Hyogo, Japan, 2Yamagata Prefectural Yonezawa University, Japan, 3Kyoto Medical Center, Japan, 4Jichi Medical University, Japan, 5Kyoto University, Japan

Oral Session 12  Room: 302

10:00-11:30  Food Technology

Chairperson:  Tatsuya Oshima (University of Miyazaki, Japan)  
Isao Kobayashi (National Agriculture and Food Research Organization, Japan)

OS12-1  Use of Hybrid Technology of Ozone-UV to decontaminate spices of Salmonella  
Chakravarthy Prem Damuluri1, Sudershan Rao Vemula4  
1Eesavyasa Technologies Private Ltd, India, 4National Institute of Nutrition, India

OS12-2  Possibility of Total Bacterial Quantification in Raw Milk using Near Infrared Spectroscopy  
Sonthaya Numthuam, Jutaporn Hongpathong, Natthapakorn Suk-osot, Nuccha Yodwisadpanid, Rangsun Charoensook, Wandeer Tratrakoon  
Naresuan University, Thailand

OS12-3  Factors for the Water-Solubility or Water-Dispersibility of the Complex between Peptide mixture and Poorly Water-Soluble Nutrients and Drugs  
Oshima Tatsuya, Yamashita Risa, Iwakiri Takeru, Wang Bin, Sugahara Mariko, Inada Asuka, Baba Yoshinari  
University of Miyazaki, Japan

OS12-4  Microchannel emulsification a promising technique for generating monodisperse oil-in-water emulsions encapsulating quercetin  
Nauman Khalid1,2, Isao Kobayashi1, Marcos A. Neves1,3, Kunihiko Uemura1, Mitsutoshi Nakajima1,3, Hiroshi Nabetani1,2  
1National Food Research Institute, Japan, 2The University of Tokyo, Japan, 3University of Tsukuba, Japan

OS12-5  Nanoemulsion (NE) delivery system boosts oral bioavailability and cellular uptake of lipophilic nutraceuticals  
Tanmoy Kumar Dey, Pubali Dhar  
University of Calcutta, India

OS12-6  Coffee concepts: An approach from free word association to Vietnamese consumers  
Nguyen Ba Thanh1, Ho Thuy Dung1, Hoang Nguyen Dzung2  
1Industrial University of Industry, Viet Nam, 2Ho Chi Minh City University of Technology, Vietnam

Oral Session 13  Room: 311+312

10:00-11:30  Vitamins and Minerals

Chairperson:  Hitoshi Shirakawa (Tohoku University, Japan)  
Tsutomu Fukuwatari (The University of Shiga Prefecture, Japan)

OS13-1  An iodine supplementation trial in adults: preliminary findings on urinary iodine, serum thyroglobulin and thyroid-stimulating hormone concentrations  
Zheng Feei Ma, Bernard Venn, Patrick Manning, Sheila Skeaff  
University of Otago, New Zealand
Program (May 16)

OS13-2  
**Vitamin B₆ deficiency in Caenorhabditis elegans results in severe oxidative stress, leading to learning&memory impairment**
Tomohiro Bito, Taihei Misaki, Yukinori Yabuta, Tsuyoshi Kawano, Fumio Watanabe  
Tottori University, Japan

OS13-3  
**Vitamin B₆ prevents IL1b production through inhibition of NLRP3 inflammasesome activation**
Peipei Zhang¹, Takeshi Kinoshita¹, Hiroko Kushiyama¹, Sofya Suidasari², Norihisa Kato², Takashi Suda¹  
¹Kanazawa University, Japan, ²Hiroshima University, Japan

OS13-4  
**Effect of vitamin B₆ on the expression of IFGFPs, anti-disease factors, in HepG2 cells**
Sofya Suidasari, Peipei Zhang, Tomomi Hasegawa, Noriyuki Yanaka, Norihisa Kato  
Hiroshima University, Japan

OS13-5  
**1,25-Dihydroxyvitamin D enhances human tryptophan hydroxylase gene expression through vitamin D responsive elements in human brain cells**
Ichiro Kaneko¹, Jui-Cheng Hsieh², G. Kerr Whitfield², Hiroko Segawa¹, Ken-ichi Miyamoto¹,  
Mark R. Haussler², Peter W. Jurutka²³  
¹University of Tokushima, Japan, ²University of Arizona College of Medicine, USA, ³Arizona State University, USA

OS13-6  
**Effect of biotin on steroidogenesis in cultured testis-derived tumor cells**
Hitoshi Shirakawa, Misato Maeda, Hsin-Jung Ho, Tomoko Katsurai, Tomoko Goto, Michio Komai  
Tohoku University, Japan

OS13-7  
**Identification of NPC1L1 as a physiological vitamin K importer in the small intestine**
Tappei Takada, Yoshihide Yamanashi, Kentaro Konishi, Takehito Yamamoto, Yu Toyoda, Yusuke Masuo,  
Hideaki Yamamoto, Yusuke Tanaka, Toko Komine, Hiroshi Suzuki  
The University of Tokyo Hospital, Japan

Oral Session 14  
Room: 301

13:50-15:20  
**Immune Function/Cognition**  
Chairperson:  
Tatsuya Sugawara (Kyoto University, Japan)  
Satoshi Kida (Tokyo University of Agriculture, Japan)

OS14-1  
**Siphonaxanthin, a marine carotenoid from green algae, attenuates mast cell degranulation by regulating sphingolipid metabolism**
Yuki Manabe¹, Takashi Hirata¹², Tatsuya Sugawara¹  
¹Kyoto University, Japan, ²Shijonawate Gakuen University, Japan

OS14-2  
**Vulnerability to anxiety- and depression-like behavior during adolescence in vitamin C-depleted mice**
Miwako Koizumi¹, Yoshitaka Kondo², Ayumi Isaka¹, Akihito Ishigami², Emiko Suzuki¹  
¹Ochanomizu University, Japan, ²Tokyo Metropolitan Institute of Gerontology, Japan

OS14-3  
**Effects of leptin on immune response under folate deficiency condition**
Pei-Hsuan Chan, Bi-Fong Lin  
National Taiwan University, Taiwan

OS14-4  
**Difference Effect of Tempe Flour and Tofu Flour on Beta Amyloid 1-40 Serum Levels in Ovariectomized Female Rats**
Atik Kridawati Irsan¹, Ahmad - Sulaeman², Rizal - Damanik², Tri Budi Rahardjo², Eef - Hogervorst³,  
Hardinayah - Hardinayah³  
¹Universitas Respati Indonesia (URINDO), Indonesia, ²Institut Pertanian Bogor (IPB), Indonesia, ³Universitas Indonesia (UI), Indonesia, ³Loughborough University, UK

OS14-5  
**Thiamine deficiency impairs hippocampus-dependent memory and spine density of hippocampal neurons**
Satoshi Kida¹², Takuya Kishimoto¹, Satoru Ohishi¹, Kan Nagata¹, Tamae Watanabe¹,  
Shunsuke Hasegawa¹  
¹Tokyo University of Agriculture, Japan, ²JST. CREST, Japan
Program (May 16)

OS14-6 Reduced cerebrospinal fluid ethanolamine concentration in major depressive disorder
Shintaro Ogawa1,2, Kotaro Hattori3, Daimi Sasayama1,2, Yuki Yokota4, Ryosuke Otsu5, Junko Matsuo1,6, Mihoko Ota1, Hiroaki Hori1, Toshiya Terai1, Sumiko Yoshida1, Takamasa Noda1, Yoshiaki Ohashi5, Hajime Sato5, Teruhiko Higuchi1, Nobutaka Motohashi1, Hiroshi Kunugi1
1National Center of Neurology and Psychiatry, Japan, 2Shinshu University School of Medicine, Japan, 3Human Metabolome Technologies, Inc., Japan, 4University of Yamanashi, Japan

OS14-7 The Protective Effect of Ketogenic Diet on Cognitive Function Is Related to Inhibiting Inflammation in the Hippocampus
Tien-Jui Lee1, Kimberly P. Kinzig1, Sara L. Hargrave2
1Purdue University, USA, 2American University, USA

Oral Session 15 Room: 302

13:50-15:20 Diet/Nutritional Assessment

Chairperson: Mamoru Nishimuta (Toyo University, Japan)
Miki Miyoshi (National Institute of Health and Nutrition, Japan)

OS15-1 Low Prevalence of Fruit and Vegetable Consumption among Adolescents: a Multinational Comparison of 11 Countries of the Eastern Mediterranean Region
Lyutha Al Subhi, Shekar Bose, Maraim Al Ani
Sultan Qaboos University, Oman

OS15-2 Nuts consumption and suicidal ideation, depression and perceived stress among Korean adults: KNHANES IV, V from 2007 to 2012
Mi Kyung Kim1, Ji Sook Kong1, Soo-Kyung Lee2, Kyung Won Kim3
1National Cancer Center, Korea, 2Inha University, Korea, 3Seoul Women’s University, Korea

OS15-4 Development of an Electronic Food Diary to assess dietary intake among young adults
Wong Jyh Eiin1, Yoke San Chen1, Nor Effendy Othman1, Bee Koon Poh1
Universiti Kebangsaan Malaysia, Malaysia

OS15-5 Influence of new Media on people’s Behavior of Eating out
Yong Zhao, Ping Hu, Lu Lu, Wenjie Huang, Yan Zhang, Huan Zeng, Yong Zhang, Fan Zhang
Chongqing Medical University, China

OS15-6 Advice and the Reality of Snacking Habits: a Worldwide Perspective
Monika Potter, Antonios Vlassopoulos, Gabriel Masset, Alison Eldridge, Fabienne Leroy
Nestle Research Center, Switzerland

OS15-7 Height Estimation in Thai Women from different South East Asian equations
Nopphanath Chumpathat1,2, Ram Rangsin3, Ngamphol Soonthornworasiri1, Supranee Changbumrung1, Vanida Durongritichai1, Karunee Kwanbunjan1
1Mahidol University, Thailand, 2Huachiew Chalermprakiet University, Thailand, 3Phramongkutklao College of Medicine, Thailand

Oral Session 16 Room: 311+312

13:50-15:20 Nutritional Biochemistry

Chairperson: Shinji Miura (University of Shizuoka, Japan)
Tohru Hira (Hokkaido University, Japan)

OS16-1 Metabolism of Exogenous Acetic Acid Induces glut4 Expression through Activation of AMP-Activated Protein Kinase in Rat L6 Myotube Cells
Yukihiro Yoshimura, Hitomi Maruta, Aya Araki, Masumi Kimoto, Yoshitaka Takahashi, Hiromi Yamashita
Okayama Prefectural University, Japan

OS16-2 The roles of GPD1 in exercise capacity
Tomoki Sato1, Akihito Morita1, Nobuko Morii2, Shinji Miura1
1University of Shizuoka, Japan, 2Osaka Prefectural University, Japan
Program (May 16)

OS16-3 Novel function of adenosine monophosphate to improve metabolic related-diseases in SHRSP
Ardy Ardiansyah1, Hitoshi Shirakawa2, Takuya Koseki3, Kazuyuki Hiwatashi4, Saori Takahashi4, Yoshinobu Akiyama5, Michio Komai6
1Universitas Bakrie, Indonesia, 2Tohoku University, Japan, 3Yamagata University, Japan, 4Akita Research Institute for Food and Brewing, Japan, 5Akita Prefectural University, Japan

OS16-4 Effect of a High-Fat and High-Fructose Diet on the Early Stages of Hepatocarcinogenesis in Diethylnitrosamine-initiated Rats
Orapin Insuan1, Sittiruk Roytrakul2, Narissara Lailerd1, Rawiwan Wongpoomchai1
1Chiang Mai University, Thailand, 2National Center for Genetic Engineering and Biotechnology, Thailand

OS16-5 Cholesterol induces homocysteine transsulfuration in human liver derived cell lines
Hsin-An Ko, Che-Chia Hu, En-Pei Isabel Chiang
National Chung Hsing University, Taiwan

OS16-6 Bioactive Compounds In Berberis vulgaris Exhibit Cytotoxicity In Cancer Cells And Demonstrate Cytoprotective Ability Against Oxidative Stress In Human Fibroblasts
Glenn G. Oyong1, Gliceria D. Ramos1, Esperanza Maribel G. Agoo1, Ma. Carmen S. Tan2, Naser Jafari3, Esperanza C. Cabrera1
1De La Salle University, Philippines, 2Ardabil University of Medical Science, Iran, 3University of Tehran, Iran

OS16-7 Pteryxin: a coumarin in Peucedanum japonicum Thunb leaves exerts anti-obesity activity through modulation of adipogenic gene network
Ruwani N. Nugara1,2, Masashi Inafuku1, Kensaku Takara2, Hironori Iwasaki2, Hirosuke Oku2
1Kagoshima University, Japan, 2University of the Ryukyus, Japan

Oral Session 17

16:10-17:40 Energy Metabolism

Chairperson: Jun Inoue (The University of Tokyo, Japan)
Wataru Mizunoya (Kyushu University, Japan)

OS17-1 Eicosapentaenoic acid in fish oil is the key fatty acid to promote oxidative metabolism in rat skeletal muscle
Yusuke Komiya1, Tsuyoshi Goto2, Nobuyuki Takahashi2, Teruo Kawada2, Mako Nakamura1, Ryuichi Tatsumi1, Yoshihide Ikeuchi1, Wataru Mizunoya1
1Kyushu University, Japan, 2Kyoto University, Japan

OS17-2 PGC1alpha regulates branched-chain amino acid metabolism in the skeletal muscle
Yukino Hatazawa1, Miki Tadashi2, Yoshihiro Ogawa1, Osamu Ezaki1, Yasuyuki Kitaura1, Yoshiharu Shimomura1, Yasutomi Kamei1, Shinji Miura1
1Kyoto Prefectural University, Japan, 2National Institute of Health and Nutrition, Japan

OS17-3 Functions of AMPK and PPARg for exercise-induced LPL in skeletal muscle
Takashi Sasaki1, Rieko Nakata2, Hiroyasu Inoue2, Makoto Shimizu1, Jun Inoue1, Ryuichiro Sato1
1University of Tokyo, Japan, 2Nara Women's University, Japan

OS17-4 Feeding rhythm during active phase influences hypothalamic regulation of insulin sensitivity in skeletal muscle
Tetsuya Shiuchi1,2, Airi Otsuka1, Sachiko Chikahisa1, Noriyuki Shimizu1, Hiroyoshi Sei1
1The University of Tokushima, Japan, 2PRESTO, JST, Japan

OS17-5 Body weight lowering effect of Piper nigrum Linn extracts on HFD induced SD obese rats, A non-invasive study
Harishankar Nemani1, Sailaja Pothana2
1National Centre for Laboratory Animal Science, National Institute of Nutrition, India, 2S.V. University, India

OS17-6 Satiety responses and changes in ghrelin levels with intake of brown rice and white rice in Filipino adults
Maria Julia G. Gubat1,2, Jacus S. Nacis1,2, Mildred A. Udarbe1,2, Edward Vincent J. Magtibay1,2, Noelle Lyn C. Santos1,2, Vanessa Joy A. Timoteo1,2, Marites V. Alibayan1,2
1Food and Nutrition Research Institute, Philippines, 2Department of Science and Technology
OS17-7 In vitro fermentation by gut microbiota from human subjects representing three ethnic groups in Hawaii
Maria L Stewart, Ziwen Wang
University of Hawaii at Manoa, USA

Oral Session 18
Room: 302

16:10-17:40 Maternal and Child Nutrition

OS18-1 Maternal occupation and nutritional outcomes among Brazilian children under five years old
Fernanda P. Matozinhos, Tatiane Gea-Horta, Mariana S. Felisbino-Mendes, Gustavo Velasquez-Melendez
Universidade Federal de Minas Gerais (UFMG), Brazil

OS18-2 The relation of fatty acid composition among the placenta and erythrocytes of the maternal and fetal blood in Japanese pregnant women
Fumiko Kimura1, Isao Yamazaki1, Nakagawa Kiyotaka1, Kunihiko Nakai1, Terue Kawabata2,
Yasuo Kagawa2, Shoji Saitoh1,3, Satoshi Mizuno1, Nobuo Yagash1, Takahiro Arima1, Teruo Miyazawa1
1Tohoku University, Japan, 2Kagawa Nutrition University, Japan, 3Yamagata Prefectural Central Hospital, Japan

OS18-3 Qualitative Research to Understand Caregiver Feeding Behaviors and Attitudes in Rural Bangladesh
Zaynah T. Chowdhury1, Kristen M. Hurley1, Mousumi Jahan2, Stephen Kodish1, Saijuddin Shaikh1,2,
Sucheta Mehra1, Keith P. West Jr.1, Christian Parul1
1Johns Hopkins Bloomberg School of Public Health, USA, 2JiVitA Project, Bangladesh

OS18-4 Dairy Consumption And Its Relation To Nutritional Status In The South East Asian Nutrition Survey (SEANUTS)
Ilse Khouw1, Nipa Rojroongwasinkul2, Bao Khanh Le Nguyen3, Sandjaja Sandjaja4, Bee Koon Poh5,
Paul Deurenberg6, Marjolijn Bragt1
1FrieslandCampina Development Centre AMEA, Singapore, 2Mahidol University, Thailand, 3National Institute of Nutrition, 4Persatuan Ahli Gizi Indonesia, 5Universiti Kebangsaan Malaysia, 6Nutrition Consultant

OS18-5 Micronutrient Adequacy and Nutritional Quality of the Diet of the Indonesian Children 2-3 Years Old
Teguh Jati Prasetyo, Hardinsyah Hardinsyah
Bogor Agricultural University, Indonesia

OS18-6 Sex differences in perception of neighbourhood environment, physical activity and weight status of primary school children in selangor, malaysia
Serene E.H. Tung1, Xiau Huey Ng1, Mohd Nasir - Mohd Taib2
1UCSI University, Malaysia, 2Universiti Putra Malaysia, Malaysia

Oral Session 19
Room: 311+312

16:10-17:40 Carbohydrate/Protein/Others

OS19-1 Profile of Individual Phenolics in Rice (Oryza sativa): Varietal Differences, Compounds Distribution and Composition Changes in Grains during Rice Production
Widiastuti Setyaningsih1,2, Nikmatul Hidayah2, Miguel Palma2, Carmelo G. Barroso2
1Gadjah Mada University, Indonesia, 2University of Cadiz, Spain, 3Indonesian Center of Agricultural Postharvest Research and Development, Indonesia

OS19-2 Effect of branched-chain amino acids on insulin secretion during feeding
Mami Horiuchi1, Tomoya Takeda1, Yori Ozaki1, Fumihiko Hakunō2, Shin-Ichiro Takahashi2, Asako Takenaka1
1Meiji University, Japan, 2The University of Tokyo, Japan
Program (May 16 / 17)

OS19-3 Development and analysis of evaluation system to search for food factors that modulate fructose transporter in intestinal epithelia
Itsuki Oji¹, Norio Yamamoto², Mamoru Totsuka³, Hideo Satsu⁴
¹The University of Tokyo, Japan, ²Maebashi Institute of Technology, Japan, ³House Wellness Foods Co., Ltd., Japan

OS19-4 Disparities in hyperactivity and learning ability between Djungarian and Roborovskii hamsters
Hiromi Ikeda, Mao Nagasawa, Takeshi Yamaguchi, Kimie Minaminaka, Ryosei Goda, Vishwajit S Chowdhury, Shinobu Yasuo, Mitsuhiro Furuse
Kyushu University, Japan

OS19-5 Effect of PGC-1α on branched chain amino acid intake in mice
Ryoji Yoshimura¹, Kimiko Minami¹, Yasutomi Kamei¹
¹Kyoto Prefectural University, Japan, ²Research Fellow of Japan Society for the Promotion of Science, Japan

OS19-6 mTORC1 is involved in the regulation of BCAA catabolism in mouse heart
Hongmin Zhen, Yoshihiro Kadota, Yasuyuki Kitaura, Minjun Xu, Yusuke Kondo, Takuya Ishikawa, Yoshiharu Shimomura
Nagoya University, Japan

OS19-7 Identification of miRNA-663a as a target of leucine deprivation and ATF4 signaling
Junki Yamamura, Hisanori Kato, Huijuan Jia
The University of Tokyo, Japan

May 17 (Sunday)

Oral Session 20 Room: 302

10:00-12:00 Health Status and Elderly
Chairperson: Kiyoshi Tanaka (Kyoto Women's University, Japan)
Masaharu Kagawa (Kagawa Nutrition University, Japan)

OS20-1 The Double Burden of Malnutrition in Indonesia: Social Determinants and Geographical Variations
Wulung A. Hanandita, Gindo Tampubolon
University of Manchester, UK

OS20-2 Perceived health status is associated with body image and disordered eating risks among Japanese young females of acceptable BMI
Masaharu Kagawa¹, Tomoko Imai², Satomi Maruyama³, Toru Takahashi⁴, Hatsuko Yamamoto⁵, Hayato Uchida⁶, Michiko Koda⁷, Hiromi Hirata⁸
¹Kagawa Nutrition University, Japan, ²Doshisha Women's College of Liberal Arts, Japan, ³Kinjo Gakuin University, Japan, ⁴Fukuoka Women's University, Japan, ⁵Kiryu University, Japan, ⁶University of Hyogo, Japan, ⁷Chubu University, Japan,

OS20-3 Socioeconomic Status-Dependent Associations Between Life Style and Metabolic Syndrome: Urban Area In Indonesia (2007 Riskesdas Data Analysis)
Nurhaedar Jafar¹, Abdul Razak Thaha¹, Sitti Khadijah Hamid¹, Veni Hadju¹, Baharuddin Semmaila²
¹Hasanuddin University, Indonesia, ²Universitas Muslim Indonesia, Indonesia

OS20-4 Total Polyphenols And Some Classes Are Associated With A Reduction Of Cardiovascular Risk, A Longitudinal Study Within The PREDIMED Trial
Anna Tresserra-Rimbau¹,², Eric B Rimm³,⁴,⁵, Alexander Medina-Remon²,⁶, Miguel A Martinez-Gonzalez⁷,⁸, Ramon Estruch⁹,¹⁰, Rosa M Lamuela-Raventos¹,²
¹University of Barcelona, Spain, ²Instituto de Salud Carlos III, Spain, ³Brigham and Women’s Hospital, USA, ⁴Harvard Medical School, USA, ⁵Harvard School of Public Health, USA, ⁶Hospital Clinic, Spain, ⁷University of Navarra, Spain

OS20-5 Significance of historical height loss in the nutritional assessment of the elderly
Kiyoshi Tanaka¹, Akiko Kuwabara¹, Junko Ohta¹, Momoyo Seki¹, Rina Okajima¹, Tetsuya Sato³, Kousei Yoh¹
¹Kyoto Women's University, Japan, ²Osaka Shoin Women's University, Japan, ³Sato Orthopaedic Clinic, Japan, ⁴Aino Hospital, Japan
OS20-6  Status of Trace Elements in Association with DNA Damage and Cognitive Impairment among Malaysian Elderly
Razinah Sharif, Ashileah Meramat, Suzana Shahar, Nor Fadilah Rajab
Universiti Kebangsaan Malaysia, Malaysia

OS20-7  Food habits and mortality among oldest old Chinese: the Chinese Longitudinal Healthy Longevity Survey (CLHLS)
Zumin Shi¹, Tuohong Zhang², Sean Martin¹, Jodie Avery¹, Anne W Taylor¹
¹University of Adelaide, Australia, ²Peking University, China

OS20-8  Green tea consumption and the risk of incident dementia in elderly Japanese: the Ohsaki Cohort 2006 Study
Yasutake Tomata, Kemmyo Sugiyama, Yu Kaiho, Kenji Honkura, Takashi Watanabe, Shu Zhang, Yumi Sugawara, Ichiro Tsuji
Tohoku University Graduate School of Medicine, Japan

OS20-9  Socio-demographic variations in the magnitude and determinants of hypertension among Indian Urban-Rural-Tribal population 20 years and above: NNMB Nation-wide Surveys
Laxmaiah Avula¹², Meshram I Indrapal¹², Arlappa Nimmathota¹², Balakrishna Nagalla¹², Harikumar Rachakulla¹², Ravindranath Manchala¹², Kumar Sharad¹², Kalpagam Polasa¹²
¹National Institute of Nutrition, India, ²Indian Council of Medical Research, Hyderabad, India

Oral Session 21
Room: 311+312
10:00-11:00  Public Health Nutrition 1

Chairperson:  Toru Rikimaru (Japan International Cooperation Agency, Japan)  Jillian Waid (Helen Keller International, Bangladesh)

OS21-1  Evidence-based Policy, accepted and should not be forgotten
Lindawati Wibowo¹, Desy V Roslina¹, Erni Siswati¹, Hariani Susiadi¹, Masjudin Efendi¹, Nurul F Dewi¹, Tejo N Jati¹, Sudirman Siddiq¹, Husni Muadz², Elizabeth L Prado¹⁴, Khaerul Anwar³, Mandri Apriatni¹, Rosiady H Sayuti³, Anuraj H Shankar¹²
¹Summit Institute Development, Indonesia, ²Mataram University, Indonesia, ³Health Department, Indonesia, ⁴UC Davis, USA, ⁵Harvard School of Public Health, USA

OS21-2  Tracking commitments to the Multi-sector Nutrition Plan (MSNP) for accelerated reduction of maternal and child undernutrition in Nepal
Indu K. Sharma², Amanda Pomeroy¹, Lidan Du¹, Madhukar B. Shrestha², Robin Houston¹, Jolene Wun¹
¹JSI Research & Training, USA, ²Helen Keller International, Nepal

OS21-3  The Phenomenon of Stunting in Indonesia. Who and Why
Abdul Razak Thaha¹, Endang Ruswiyanti², Carmen Siagian³, Maya Suriajaya⁴
¹Hasanuddin University, Indonesia, ²Makassar Islamic University, Indonesia, ³Indonesian Christian University, Indonesia, ⁴Gracia Aesthetic Clinic

OS21-4  Household food insecurity is seasonally associated with child under-nutrition and mediated by dietary diversity in Bangladesh
Md. Mehedi Hasan¹, Jillian L. Waid¹, Project team FSNSP²
¹Helen Keller International, Bangladesh, ²BRAC University, Bangladesh

Oral Session 22
Room: 311+312
11:00-12:00  Public Health Nutrition 2

Chairperson:  Nobuo Nishi (National Institute of Health and Nutrition, Japan)  Indu Adhikary (Helen Keller International, Cambodia)

OS22-1  Thai food consumption, nutritional status, and impact on environment
Piyanit Churak¹, Kittichai Sranacharoenpong¹, Nipa Rojroongwasinkul¹, Thumrongrat Mungcharoen²
¹Mahidol University, Thailand, ²Kasetsart University, Thailand.
**Program (May 17)**

**OS22-2**  
**Consumption of commercial snack foods among children 6-23 months in urban Cambodia and Nepal**  
Alissa Pries¹, Indu Adhikary², Khin Mengkheang³, Senendra Raj Upreti⁴, Shrid Dhunge⁵, Sandra L. Huffman⁶  
¹Helen Keller International, Asia-Pacific Regional, ²Helen Keller International, Nepal, ³Helen Keller International, Cambodia, ⁴Ministry of Health and Population, ⁵University of California, ⁶University of California, Los Angeles

**OS22-3**  
**Metabolic characteristics and nutritional intake according to differences in income level in Japan: Analysis from National Health and Nutrition Survey**  
Chika Horikawa², Nobuo Nishi¹, Nobuko Murayama³  
¹National Institute of Health and Nutrition, Japan, ²University of Niigata Prefecture, Japan

**OS22-4**  
**The effect of the Sichuan Earthquake on diet among women: A study after the earthquake happened one year**  
Xianglong Xu, Bing Li, Ruixue Bai, Yong Zhao  
Chongqing Medical University, China

**OS22-5**  
**Micronutrient Powders for Disasters: The Camotes Islands Experience Post Typhoon Haiyan**  
Eusebeia Joy B. Mendoza, Juan Antonio A. Solon, Mary Christine R. Castro, Lauren Lalaine B. Lao, Clarinda B. Paquibot  
Nutrition Center of the Philippines, Philippines
**Program**

**May 15 (Friday)**

### Poster Session 01

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Yuriko Kano¹, Teruo Kawada², Tatsuo Watanabe³, Fumihiro Koyama⁴, Kenichi Watanabe⁵, Kazuo Iwai⁶  
¹Kobe Women's University, Japan, ²Kyoto University, Japan, ³University of Shizuoka, Japan, ⁴J-Oil Mills Company, Japan |
| **PS-01-a-002** | Development of a new in vitro skeletal muscle contraction system  
Yasuko Manabe, Akiko Inagaki, Kanoko Maruo, Kotaro Tamura, Yasuro Furuichi, Fujii L. Nobuharu  
Tokyo Metropolitan University, Japan |
| **PS-01-a-003** | Biochemical Composition in Leaf Protein Extracted Potato Leaves  
Jyoti Shanker  
CSJM University, India |
| **PS-01-a-004** | In vitro studies of the digestibility of lectin from black turtle bean (Phaseolus vulgaris)  
Shudong He¹, Benjamin Simpson², Michael Ngadi³, Ying Ma⁴  
¹Harbin Institute of Technology, China, ²McGill University, Canada |
| **PS-01-a-005** | Role of GLUT4 knockdown-dependent transcriptional control of the RBP4 gene  
Jun Yamauchi, Mariko Sekiguchi, Tomomi Shirai, Yoshiko Ishimi, Erina Inoue  
National Institute of Health and Nutrition, Japan |
| **PS-01-a-006** | Effect of Andrographolide on CoCl2-Induced Expression of Hypoxia-Inducible Factor 1alpha and Endothelin 1 in EA.hy926 Cells  
Haw-Wen Chen, Chia-Yang Lu  
China Medical University, Taiwan |
| **PS-01-a-007** | Effect of Shikonin on Drug-Metabolizing System in Rat Primary Hepatocytes  
Chong-Kuei Li, Hsien-Tsung Yao, Tzu-Yu Lin  
China Medical University, Taiwan |
| **PS-01-a-008** | Germinated Brown Rice Methanol Crude Extract Induced Satiety Hormones Release from Stc-1 and Nci-H716 Cell Lines  
Su Peng Loh, Wen Bin Kuan, Norhaizan Mohd Esa, Ooi Chuan Ng  
Universiti Putra Malaysia, Malaysia |
| **PS-01-a-009** | Inhibitory Activity of Angiotensin-converting Enzyme from Gynura procumbens Leaves under Different Extraction Conditions  
Triwoot Phanyotha, Warangkana Srichamnong, Nattapol Tangsuphoom, Chalat Santivarangkna, Uthaiwan Suttisansanee  
Mahidol University, Thailand |
| **PS-01-a-010** | The role of PPAR-alpha in the teratogenic effect of polar fraction in oxidized frying oil  
Ting Yu Lai, Ting-Yi Lin, Pei Min Chao  
China Medical University, Taiwan |
| **PS-01-a-011** | Plasma GLP-1 concentration is increased in non-operated rats fed fermentable dietary fiber, but not in cecectomized rats  
Ryoko Shimada, Yokho Sugawa-Katayama, Kazuyuki Oku, Kiyoshi Ebihara  
Osaka Aoyama University, Japan |
| **PS-01-a-012** | Modulation of adipocyte activity by the TGF-beta family  
Yuhang Qiao, Masashi Suenaga, Tohru Matsu, Masayuki Funaba  
Kyoto University, Japan |
| **PS-01-a-013** | Beta-carotene promotes hypertrophy and protein synthesis in soleus muscle in mice  
Tomoya Kitakaze¹, Naoki Harada¹, Yoshihisa Nakano², Ryoichi Yamaji³  
¹Osaka Prefecture University, Japan, ²Osaka Women's Junior College, Japan |
**Program**

**PS-01-a-014** Isoferulic acid prevents methylglyoxal-induced glycation, oxidation-dependent damage to protein and oxidative DNA damage  
Sirichai Adisakwattana¹, Aramsri Meeprom¹, Weerachat Sompong¹, Tanyawan Suantawee¹, Thavaree Thilavech¹, Catherine B Chan²  
¹Chulalongkorn University, Thailand, ²University of Alberta, Canada

**PS-01-a-015** Sex-dependent relationship between omega-3 index and type 2 diabetes in older overweight and obese people  
Manohar Garg, Kylie Abbott, Martin Veysey, Mark Lucock, Suzie Niblett, Katrina King, Tracy Burrows  
University of Newcastle, Australia

**PS-01-a-016** The effect of 1'-acetoxychavicol acetate on human skin wound healing  
Atsuki Mori, Koji Sugawara, Daisuke Tsuruta, Isao Matsui-Yuasa, Akiko Kojima-Yuasa  
Osaka City University, Japan

**PS-01-a-017** Flavonoids affect circadian rhythm in PER2::LUC mouse embryonic fibroblast cells  
Ayako Shinozaki, Aya Yokota, Atsushi Haraguchi, Mari Kuwahara, Yu Tahara, Shigenobu Shibata  
Waseda University, Japan

**PS-01-a-018** Carnosic acid prevents 6-hydroxydopamine-induced apoptosis through the activation of autophagy  
Chia-Yuan Lin  
China Medical University, Taiwan

**PS-01-a-019** Anti-acetylcholinesterase, anti-butyrylcholinesterase and anti-beta-secretases activities from crude extract of sweet peppers in different solvents  
Kantamanee Thuphairo, Kalyarat Kruawan, Warangkana Sirichamnong, Somsri Charoenkiatkul, Uthaiwan Sutissanane  
Mahidol University, Thailand

**PS-01-a-020** The Nutritional Composition of the Most Effective Diet on Weight Loss in Obese Mice  
Tomomi Yamazaki  
National Institute of Health and Nutrition, Japan

**PS-01-a-021** Mechanisms of lipogenic gene expression in postprandial liver  
Yuri Nishimura, Tomoki Sato, Mizuki Inoue, Shinji Miura, Akihito Morita  
University of Shizuoka, Japan

**PS-01-a-022** Nutritional status of female prisoner of Nepal  
Rishi Raj Ojha  
Nepal NGO Society, Nepal

**PS-01-a-023** Preventive Effects of Anredera cordifolia Leaf Extract on Hepatic and Renal Disorders in High Fat and High Fructose Diet-treated Mice  
Kyoji Yoshino¹, Mizue Yamada¹, Koji Maruyama², Koji Kajima²  
¹Numazu College, Japan, ²Sankyo Holdings Co., Ltd., Japan

**PS-01-a-024** Equol prevents cell apoptosis of A-beta treated SH-SY5Y by inhibiting cell cycle re-entry  
Hsin-Nung Kao, Shyh Hsiang Lin  
Taipei Medical University, Taiwan

**PS-01-a-025** Involvement of factors derived from intestine and mesenteric adipose tissues in various disorders induced by cholic acid ingestion  
Koji Tada, Takuma Nose, Misaki Tsuji, Reika Yoshitugu, Keidai Kikuchi, Hidehisa Shimizu, Hiroshi Hara, Satoshi Ishizuka  
Hokkaido University, Japan

**PS-01-a-026** Orphan receptor NR4A3 is oxidative stress responsible transcription factor and controls cyclin E  
Yuzuru Otsuka, Motoko Yamada, Etsuko Ueta, Hiromi Fujita, Yuri Shimizu, Mitsuru Takahashi  
Ochanomizu University, Japan Tottori University, Japan Tokyo University of Agriculture, Japan

**PS-01-a-027** Protective effects of Sulforaphane on human bladder cancer both in vivo and in vitro  
Canxia He, Yujuan Shan  
Harbin Institute of Technology, China

**PS-01-a-028** Omega-Hydroxy Fatty Acids in Edible Fats and Oils  
Yuko Nishiyama, Syuko Ogura, Saya Sato, Yasushi Kikuta  
Fukuyama University, Japan
Program

PS-01-a-029  Glucose metabolism and energy production in proliferating prostate cancer cells  
Sugaya Shun, Watanabe Kenta, Kuichi Erina, Hirata Michiko, Miyaura Chisato, Inada Masaki  
Tokyo University of Agriculture and Technology, Japan

PS-01-a-030  Turkish Consumers Attitudes and Awareness Toward Novel Biotechnological Foods  
Iraz Haspolat Kaya1, Eylem Temel Ozat2, Ender Sinan Poyrazoglu3, Nevzat Artik1  
1Ankara University, Turkey, 2Ozerisen Food Company, Turkey, 3Siy University, Turkey

PS-01-a-031  Derivative of caffeic acid phenethyl ester inhibits the growth of colon cancer in vitro and in vivo  
Feng-Yao Tang1, Man-Hui Pai2, En-PEi Isabel Chiang3  
1China Medical University, Taiwan, 2Taipei Medical University, Taiwan, 3National Chung Hsing University, Taiwan

PS-01-a-032  Antioxidant and Anti-stress Activities of Aqueous Extract from Lotus Root (Nelumbo nucifera Gaertn)  
Sun Hee Cheong, Joo Seong Kang, Seon Gyeong Bak, Hyung-Sik Won, Jong Bo Kim, Seung-Hong Lee  
Konkuk University, Korea

PS-01-a-033  Phenolic Acid and Antioxidant Activity of Virgin Coconut Oil Produced by Centrifugation and Fermentation Methods  
Chitrarporn Ngampeerpaoong1, ViSit Chavasit2  
1Mahidol University, Thailand, 2Maejo University, Thailand

PS-01-a-034  Taurine prevented cell cycle apoptosis via mitochondria and endothelia reticulum dependent pathway and restored neurotrophic gene expression in arsenite-treated SH-SY5Y cells  
Chien-Te Chou, Deng-Fwu Huang  
National Taiwan Ocean University, Taiwan

PS-01-a-035  Glycine-N Methyltransferase Expression in HepG2 Cells and L02 Cells affects Transmethylation Kinetics in One Carbon Folate Metabolism  
Yee Ling Tan, Hsin-An Ko, Yu-Hsuan Huang, En-Pei Isabel Chiang  
National Chung Hsing University, Taiwan

PS-01-a-036  Disease modifying antirheumatoid drugs (DMARDs) Alter Cellular Kinetics in Folate mediated one carbon Metabolism  
Nga-Lai Sou, En-Pei Isabel Chiang, Hsin-An Ko, Yu-Hsuan Huang  
National Chung Hsing University, Taiwan

PS-01-a-037  Low GI sweetener rare sugar syrup and its reducing effect on the glycemic index of sugar  
Tomoya Shintani, Takako Yamada, Tomonori Kimura, Noriko Hayashi, Tetsuo Iida, Kazuhiro Okuma  
Matsutani Chemical Industry Co., Ltd., Japan

PS-01-a-038  Characteristic hydrolyzing of megalosaccharide by human salivary alpha-amylase and small intestinal enzymes, and its bioavailability in healthy subjects  
Tsuneyuki Oku1, Kenichi Tanabe2, Fumio Shimura1, Sadako Nakamura1  
1Jumonji University, Japan, 2University of Nagasaki Siebold, Japan

PS-01-a-039  Production of prebiotic galacto- and hetero-oligosaccharides using beta-galactosidases from Bifidobacterium breve DSM 20213  
Thu-Ha Nguyen  
BOKU University of Natural Resources and Life Sciences, Austria

PS-01-a-040  Inhibitory effect of enzymatically synthesized glycogen against UVB irradiation-induced ROS accumulation and apoptosis in NHEKs  
Yoshioka Yasukiyoi, Takakazu Mitani1, Takashi Furuyashiki2, Hitoshi Ashida1  
1Kobe University, Japan, 2Era Glico Co., Ltd, Japan

PS-01-a-041  Effects of the spinach intake first on the postprandial hyperglycemia  
Harumi Ohno, Masaru Sonoda  
Kyoto Women's University, Japan

PS-01-a-042  Anti-obese and anti-inflammatory effects of soluble dietary fiber from adlay bran on high fat diet-induced obesity and acetaminophen-induced hepatitis  
Yukari Egashira, Shun Sato, Fumika Yoshinari, Shizuka Hirai  
Chiba University, Japan
Program

**PS-01-a-043** Comparative effects of resistant starch in the maintenance of large intestinal environment  
Chen Bixiao, Ding Yue, Morioka Saaya, Nakagawa Tomoyuki, Hayakawa Takashi  
Gifu University, Japan

**PS-01-a-044** Pectin and Its Hydrolysates Stimulate Intestinal Mucin Secretion  
Shingo Hino, Furnitaka Terasaki, Tatsuya Morita  
Shizuoka University, Japan

**PS-01-a-045** Oxidation of short chain fatty acids infused to the large intestine in rats using stable isotopes  
Asami Wakasa, Yoshiaki Shirata, Kiyoshi Miura, Tomihiro Miyada  
Kawasaki University of Medical Welfare, Japan

**PS-01-a-046** Dietary glutamate and Aspartate regulate fructose preference in rat  
Yoko Horiwaka, Hitomi Ohata, Koich Matsuda, Shigeko Fujimoto Sakata, Yasuto Sasaki  
Kobegakuin University, Japan

**PS-01-a-047** Effects of repeated supplementation with alanine and proline and interval training on the post-exercise muscle glycogen accumulation  
Maehara Chika$^{1,2}$  
$^1$University of Tsukuba, Japan, $^2$Ajinomoto Co., Japan

**AM**  
**Nutritional Physiology 1**

**PS-01-a-048** Effects of exercise on DHA-induced lipid peroxidation  
Kazuhiro Kubo$^1$, Takashi Baba$^2$, Morio Saito$^3$  
$^1$Gifu University, Japan, $^2$Maruha Nichiro Holdings, Inc., Japan, $^3$National Institute of Health and Nutrition, Japan

**PS-01-a-049** Long-term feeding of trehalose effects on glucose tolerance level and the size of Langerhans islets in C57Bl/6 mice  
Mikako Tsukada, Natsumi Amano, Nae Kodama, Yu Kagaya, Akie Matsuhashi, Yukie Yamamoto  
Seirei Women's Junior College, Japan

**PS-01-a-050** The effects of dietary Omega-3 polyunsaturated fatty acids on the prevention of coronary heart disease  
Sabrina Zeghichi$^1$, Michel de Lorgeril$^2$, Patricia Salen$^3$, Joel de Leiris$^2$  
$^1$Bejaia University, Algeria, $^2$Joseph Fourier University, France

**PS-01-a-051** Effect of PGC-1alpha on exercise capacity in mice  
Kimiko Minami$^1$, Ryoji Yoshimura$^{3,4}$, Yasutom Kamei$^1$  
$^1$Kyoto Prefectural University, Japan, $^2$Research Fellow of Japan Society for the Promotion of Science, Japan

**PS-01-a-052** Putative PPAR target genes express highly in skeletal muscle of insulin-resistant MetS model SHR/NDmc-cp rats  
Natsuyo Hariya$^1$, Kunio Miyake$^1$, Takeo Kubota$^1$, Toshinao Goda$^2$, Kazuki Mochizuki$^1$  
$^1$University of Yamanashi, Japan, $^2$University of Shizuoka, Japan

**PS-01-a-053** Hemolysis Induced by Intense Exercise leads to oxidative damage in Spleen and Liver leading to the development of sports anemia  
Yukiko Kobayashi, Aki Nakatsui, Wataru Aoi, Chisato Shintaku, Masashi Kuwahata, Yasuhiro Kido  
Kyoto Prefectural University, Japan

**PS-01-a-054** Effects of azuki bean (Vigna angularis) extract on AMP-activated protein kinase phosphorylation in HepG2 cells and liver of diabetic rats  
Shin Sato$^1$, Saori Kataoka$^1$, Masaaki Kurasaki$^2$, Yuuka Mukai$^3$  
$^1$Aomori University of Health and Welfare, Japan, $^2$Hokkaido University, Japan, $^3$Kanagawa University of Human Services, Japan

**PS-01-a-055** Chrono-nutritional effect of a-CD on serum triglyceride and glucose after injection at different circadian times in mice  
Yuta Hattori, Mayo Kamagata, Yuku Ikeda, Sasaki Hiroyuki, Miku Tsubosaka, Mizuho Hiroa, Shigenobu Shibata  
Waseda University, Japan
Program

PS-01-a-056  Oral Administration of L-Citrulline Acts as a Hypothermic Agent in Chicks
Vishwajit S. Chowdhury, Asako Shigemura, Edi Erwan, Tran V. Phuong, Mohammad A. Bahry, Mitsuhiro Furuse
Kyushu University, Japan

PS-01-a-057  Dietary flavonoid intake prevents muscle wasting in tumor-bearing mice
Katsuya Hirasaka1, Shinobu Saito1, Sakii Yamaguchi1, Miyazaki Riho1, Shigeto Taniyama1, Takeshi Nakawa2, Katsuyasu Tachibana1
1Nagasaki University, Japan, 2The University of Tokushima Graduate School, Japan

PS-01-a-058  The preventive effect of fish oil on the development of abdominal aortic aneurysm
Hirona Kugo1, Youhei Mouri1, Ken-ichi Yanagimoto1, Nobuhiro Zaima1, Tatsuya Moriyama1
1Kinki University, Japan, 2Nippon Suisan Kaisha, Ltd., Japan

PS-01-a-059  Caffeic acid decreased tBH-induced apoptosis in human neuroblastoma stable transfected
with mutant ataxin-3
Yu-Ling Wu, Kai-Li Liu, Yi-Chin Lin
Chung Shan Medical University, Taiwan

PS-01-a-060  Effect of resistant maltodextrin and fructooligosaccharides on GLP-1 secretion and production in diet-induced obese rats
Ryoya Suto1, Tohru Hira1, Yuka Kishimoto1, Sumiko Kanahori2, Hiroshi Hara1
1Hokkaido University Japan, 2Matsutani Chemical Industry, Japan

PS-01-a-061  Milk casein hydrolysate alleviates muscle soreness and muscle fatigue after downhill walking exercise in middle-aged to elderly men
Masayo Iwasa1, Wataru Aoi1, Aki Nakayama1, Sayori Wada1, Teppei Nakamura2, Kohji Ohki2, Akane Higashi1
1Kyoto Prefectural University, Japan, 2CALPIS Co., Ltd., Japan

PS-01-a-062  Seasonal variation of body composition associated with food intake, physical activity, and resting energy metabolism
Rie Shimonaka1, Noriko Tanaka1, Toyoko Okuda2, Naomi Hirano3, Hisae Shinohara3, Yasuyo Asano5, Mami Umemoto5, Jiangmi Kang7, Yuka Higashine6, Ikue Hamaguchi8
1Kobe Women's University, Japan, 2Tezukayamagakun University, Japan, 3University of Miyazaki, Japan, 4Konan Women's University, Japan, 5Kio University, Japan, 6Osaka Aoyama University, Japan, 7Hyogo NCC College, Japan, 8Kobe Women's Junior College, Japan

PS-01-a-063  Preventive effects of calcium and/or glucose supplementation on reducing bone fragility in a rat model of the female athlete triad
Yuki Aikawa, Umon Agata, Yuya Kakutani, Syoyo Kato, Yuichi Noma, Satoshi Hattori, Hitomi Ogata, Naomi Omi
University of Tsukuba, Japan

PS-01-a-064  A study of objective way of assessing psychological stress using salivary 3-Methoxy-4-Hydroxyphenylglycol (MHPG)
Naoko Kaibara1, Sakamoto Shigekos2, Ohnishi Jyunjis1
1Tokyo Kasei University, Japan, 2Foundation for Advancement of International Science

PS-01-a-065  Preventive effects of astaxanthin on capillary regression during recovery from disuse-induced skeletal muscle atrophy in rats
Toshiyuki Maezawa1, Miho Kanazashi1, Masayuki Tanaka1, Noriaki Maeshige1, Hiroyo Kondo2, Akihiko Ishihara8, Hideki Fujinob1
1Kobe University Graduate School of Health Sciences, Japan, 2Nagoya Women’s University, Japan, 3Kyoto University Graduate School of Human and Environmental Studies, Japan

PS-01-a-066  Aronia melanocarpa extracts augments p70S6K phosphorylation in response to resistance exercise in rat skeletal muscle
Yuhei Makanae1, Satoru Ato1, Yusuke Takamura1, Kohei Kido1, Naruhiro Shiozawa1, Koichi Nakazato2, Satoshi Fujita1
1Ritsumeikan University, Japan, 2Nippon Sports Science University, Japan

PS-01-a-067  Effect of Dietary Education on Prevention to Lifestyle Related Disease
Michie Moriyama, Shigeyoshi Kojima, Kiyoshi Shibata
Aichi Gakusen University, Japan
Program

PS-01-a-068 Distribution and reactivity of the novel fruit allergen Gibberellin Regulated Protein
Fumiko Okazaki¹, Yukie Yamaguchi-Murakami², Atsuko Adachi³, Hiroshi Narita¹
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PS-01-a-069 Seasonal variation in food intake, physical activity and change in body composition in female college students
Noriko Tanaka¹, Toyoko Okuda¹, Naomi Hirano², Hisae Shinohara², Yasuyo Asano³, Mami Umemoto¹,
Jangmi Kang⁴, Yuko Higashine², Iku Hamaguchi³, Rie Shimonaka⁵
¹Tezukayamagakuin University, Japan, ²University of Miyazaki, Japan, ³Kio University, Japan, ⁴Kobe Women's Junior College, Japan, ⁵Kobe Women's University, Japan, ⁶Hyogo NCC College, Japan, ⁷Osaka Aoyama University, Japan, ⁸Konan Women's University, Japan

PS-01-a-070 Intake of Melinjo (Gnetum gnemon) seed extract during lactation stimulates hepatic and hypothalamic AMPK in offspring of fructose-fed pregnant rats
Saori Kataoka¹, Mihoko Takebayashi¹, Megumi Kudo¹, Yuuka Mukai², Shin Sato¹
¹Aomori University of Health and Welfare, Japan, ²Kanagawa University of Human Services, Japan

PS-01-a-071 An apoptosis relating factor Appo-1 affect the regulation of blood glucose
Nami Ueda¹, Natsuko Iyoda¹, Miho Yao², Hikari Maeda³, Keisuke Fukudo⁴, Kentaro Yomogida⁴
¹Mukogawa Women's University Graduate School, Japan, ²Mukogawa Women's University, Japan, ³Research Institute for Nutrition Sciences, Japan, ⁴Institute for Biosciences

PS-01-a-072 Tomato-Rice Bran and Rice Bran Oil Beverage Intervention Maintain Blood Glucose Level and Modulate Lymphocyte Subsets in Overweight-Obese Subjects
Evy Damayantih, Cesilia Meti Dwiriani, Liik Kustiyah, Mira Dewi, Deni Alamsah
Bogor Agricultural University, Indonesia

PS-01-a-073 Acceptable daily intake levels of sucrolose consumption reduces fecal Clostridium cluster 4 in mouse
Takashi Uebanso, Ohnishi Ai, Takaaki Shimohata, Mutsumi Nakahashi, Kazuaki Mawatari,
Akira Takahashi
The University of Tokushima, Japan

PS-01-a-074 Low dose antibiotics treatment in the prenatal period affect newborns health in later life
Ayumi Yoshimoto, Takashi Uebanso, Kazuaki Mawatari, Mutsumi Nakahashi, Takaaki Shimohata,
Akira Takahashi
The University of Tokushima, Japan

PS-01-a-075 Wheat alkylresorcinols suppress the high-fat high-sucrose diet-induced of circadian rhythm disruption and the features of metabolic syndrome
Yosuke Kikuchi¹, Saori Yamamoto¹, Reiko Nakao¹, Yuki Yasumoto¹, Kazumasa Horikawa¹, Kimiko Okita²,
Shin-ichi Fukudome², Katsutaka Oishi¹
¹National Institute of Advanced Industrial Science and Technology (AIST), Japan, ²Nisshin Seifun Group Inc., Japan, ³Oriental Yeast Co., Ltd., Japan

PS-01-a-076 The expression of taste receptor hTAS2Rs during pregnancy, after delivery and in sucking infants
Tetsuya Takao¹, Chieko Kogomori¹, Iwao Maekawa², Mieko Aoki², Fumihiko Koike³, Kyoichi Takao³,
Seigo Shiga¹
¹Showa Women's University, Japan, ²Gyne. Clinic, Japan, ³Sanyo Gakuen College, Japan, ⁴Nihon University, Japan

PS-01-a-077 The construction of insulin resistance model of 3T3-L1
Takuya Kase, Isao Matsu-Yuasa, Akiko Kojima-Yuasa
Osaka City University, Japan

PS-01-a-078 Oil palm phenolics reduce cardiometabolic risk via multiple mechanisms
Mahinda Yapa Aveywardena¹, Ravigadevi Sambanthamurthy², Kalyana Sundram³, Yew-Ai Tan²
¹CSIRO - Food & Nutrition Flagship, Australia, ²Malaysian Palm Oil Board, Malaysia, ³Malaysian Palm Oil Council, Malaysia

PS-01-a-079 Efficacy of Habitual Exercise for Improving Lipid Profiles Depends on the PPAR-gamma Genotype in Japanese Males
Yasuko Sone¹, Kaori Morito¹, Takeshi Narita¹, Shigenobu Egawa¹, Kazuo Kawahara², Yuzuru Otsuka³,
Yoko Fujiiwa³
¹Takasaki University of Health and Welfare, Japan, ²Fukuoka Institute of Occupational Health, Japan, ³Tokyo Medical and Dental University, Japan, ⁴Ochanomizu University, Japan
**Program**

**PS-01-a-080** Herbal medicine Kamishimotsuto augments resistance exercise-induced mTORC1 signaling in rat skeletal muscle  
Kohei Kido¹, Yuhei Makanae¹, Satoru Ato¹, Tadahiro Hayashi², Satoshi Fujita¹  
¹Ritsumeikan University, Japan, ²Kobayashi Pharmaceutical Co., Ltd., Japan

**PS-01-a-081** Milk casein hydrolysate lowered heart rate during downhill walking exercise and muscle damage after that in middle-aged to elderly men  
Hidetoshi Miyazaki¹, Chiihiro Suzuki¹, Teppei Nakamura¹, Kohji Ohki¹, Masayo Iwasa², Wataru Aoi², Masafumi Kitakaze³  
¹CALPIS Co., Ltd, Japan, ²Kyoto Prefectural University, Japan, ³National Cerebral and Cardiovascular Center, Japan

**PS-01-a-082** Effects of Medium Chain Triglycerides on Gluconeogenesis and Ureagenesis in Weaned Rats Fed a High Fat Diet  
Chitose Sugiyama, Akter K. Nahar, Saho Morishita, Ayako Miura, Sachiko Takase  
Hamamatsu University, Japan

**PS-01-a-083** Physical inactivity induces disrupted circadian rhythm and atrophy of muscle in rats  
Hitomi Mikii¹, Fumiaki Hanzawa², Mijoo Ahn³, Satoshi Mochizuki⁴, Saiko Ikeda⁴, Hiroaki Oda¹  
¹Nagoya University, Japan, ²Nagoya University of Arts and Sciences, Japan, ³Oita University, Japan

**PS-01-a-084** The effect of liquid food injection to stomach on intestinal fermentation and electrophysiological parameters of the cecum in rats  
Takaharu Kozakai¹, Masafumi Kadosaki¹, Yoshie Kamo¹, Yuka Tomizawa¹,², Atsukazu Kuwahara²  
¹Yamagata University, Japan, ²University of Shizuoka, Japan

**PS-01-a-085** Electrophysiological analysis of brain reward system activity during fat consumption  
Mizuki Goto, Toshu Fushiki, Kazuo Inoue, Satoshi Tsuzuki, Shigenobu Matsumura, Miho Yamada, Kazutaka Mizuki, Nobuhide Kitabayashi  
Kyoto University, Japan

**PS-01-a-086** Influence of gut microbiota of the rat by combination of stress load and dietary fat content  
Kenji Otsuka, Saya Hirano, Risa Shimizu, Yuko Kikuchi, Hiromi Matsusaki, Hisanori Minami  
Prefectural University of Kumamoto, Japan

**PS-01-a-087** Evaluation of the state of Crohn's disease using plasma alpha-1 acid glycoprotein  
Yuko Kikuchi¹, Sanae Murakami¹, Mana Sugiyama¹, Kanako Sonoda¹, Kenji Otsuka¹, Natsuko Sakaeda², Tomoko Irie², Ryoichi Nozaki², Kazutaka Yamada², Hisanori Minami¹  
¹Prefectural University of Kumamoto, Japan, ²Tokano Hospital, Japan

**PS-01-a-088** Absorption of glucose in the intestine supplemented with free water content in the intestinal contents  
Toru Takahashi¹, Masami Niwa¹, Noriko Takaki¹, Miki Tokunaga¹, Kin-ya Kubo², Makoto Machida²  
¹Fukuoka Women's University, Japan, ²Ibi Kosei Hospital, Japan, ³Seiho University, Japan, ⁴Nippon Paper Industries Co., Ltd., Japan

**PS-01-a-089** Preventive effects of nucleoprotein supplementation combined with intermittent loading on disuse-induced capillary regression in rats  
Yusuke Hirayama, Ryosuke Nakanishi, Masayuki Tanaka, Toshiyuki Maezawa, Miho Kanazashi, Noriaki Maeshige, Hidemi Fujino  
Kobe University, Japan

**PS-01-a-090** Rare sugars induce expression of genes related to digest/absorb nutrients in intestinal sugar perfusion model of rats  
Takuji Suzuki, Yuki Sato, Sumire Kadoya, Mutsumi Takahashi  
Yamagata University, Japan

**AM**

**Food Science 1**

**PS-01-a-091** Greek-Style Yogurt as a Cream Cheese Supplement in Cheesecake Products  
Chanokphat Phadungath  
Muban Chombueng Rajabhat University, Thailand

**PS-01-a-092** Nutritional Status of Balut, a Boiled Incubated Fertilized Duck Egg, And Sensory Acceptability of a Newly Introduced Cuisine  
Norita Sanceda¹, Harumi Tsuchiya¹, Takehisa Matsukawa¹, Kazuhiro Yokoyama¹, Emiko Suzuki¹, Kikue Kubota¹, Midori Kasai¹  
¹Ochanomizu University, Japan, ²Juntendo University, Japan, ³Tokyo University of Agriculture, Japan
Program

PS-01-a-093 Effect of Lactobacillus paracasei NFRI 7415 on the intestinal immune system and intestinal microflora of mice
Noriko Komatsu1, Ukihide Ueki1, Ayako Aoki-yoshida2, Jun Shima3
1Seitoku University, Japan, 2National Agriculture and Food Research Organization, Japan, 3Ryukoku University, Japan

PS-01-a-094 The Effect of Sweet Mayonnaise on Beta-carotene Absorption
Chaochao Li1, Yasunobu Masuda1, Mamoru Kimura2, Mika Usuda2, Wei Wang2, Wenbin Xu1, Yinci Xi1
1Shanghai Ocean University, China, 2Kewpie Corporation, Japan

PS-01-a-095 Effect of diets containing antioxidants on mouse hyperglycemia caused by alloxan administration
Noriyoshi Masuoka1, Wakana Doi1, Kazunori Takemoto2, Takayuki Murakami2, Junji Inoue3, Kohji Ishihara1
1Okayama University of Science, Japan, 2Kake Medical Science Education Center, Japan, 3Ahjikan Co., Ltd.

PS-01-a-096 Characterization concerning nutrition and palatability of buckwheat as an Asian traditional food
Yuya Asami1, Ayumi Nishihana2, Sayoko Ikeda2, Kiyokazu Ikeda2
1Minami Kyushu University, Japan, 2Kobe Gakuin University, Japan

PS-01-a-097 The effects of freeze-denatured soy protein (kori tofu-like) and soy pulp (okara) on lipid metabolism in rats
Yoko Takahashi1, Takahiro Ishiguro2, Kohji Yamami1
1National Food Research Institute, NARO, Japan, 2Asahimatsu Foods Co., Ltd., Japan

PS-01-a-098 Effects of chronic intake of Japanese sake on radiation-induced metabolic alteration
Tetsuo Nakajima, Guillaume Vares, Bing Wang, Mitsuhiro Nenoi
National Institute of Radiological Sciences, Japan

PS-01-a-099 Eating Characteristics of Cooked Rice from Partially Abraded Brown Rice by Mastication Electromyography
Kaoru Kohyama, Zhihong Gao, Mitsuhiro Takaoka, Tomoko Sasaki, Tomoya Okunishii, Hiroshi Okadome
National Food Research Institute, National Agriculture and Food Research Organization, Japan

PS-01-a-100 Physical, chemical and functional properties of whole grain, corn grit and nixtamalized product from high anthocyanin corn hybrid (KPSC 903)
Nipat Limsangouan, Waraporn Prasert, Ngamjit Lowithun, Chulaluck Charunuch
Kasetsart University, Thailand

PS-01-a-101 The safety assessment method of the various sweeteners using a rat sperm function test
Hiroshi Ichikawa1, Akira Tad1, Masaki Iwamoto1, Kazuhiro Misumi2, Yukiwo Minamiyama2, Mayuko Oka2, Yuji Naito3, Toshikazu Yoshikawa2
1Doshisha University, Japan, 2Kyoto Prefectural University, Japan, 3Kyoto Prefectural University of Medicine, Japan

PS-01-a-102 Analysis of carotenoids in cultivars of Setaria italica and Panicum miliaceum: tissue specific localization of nutrients in the millet grains
Akira Yano1, Hirofumi Iwama1, Masato Takakusagi2, Yui Chida1, Yoshinori Takahashi2
1Iwate Biotechnology Research Center, Japan, 2Iwate Agricultural Research Center, Japan

PS-01-a-103 Effects of roasting on pigment components and antioxidant activity in colored rice
Miki Hiemori-Kondo, Yuki Uehara
Tokushima Bunri University, Japan

PS-01-a-104 Effect of chitosan on physical and chemical properties of meatball
Suveena Jantapirak, Nipat Limsangouan, Supakchon Klongdee
Kasetsart University, Thailand

PS-01-a-105 Application of hybrid purple corn flour compared with yellow corn flour to substitute wheat flour in salted noodle
Ngamjit Lowithun, Waraporn Prasert, Nipat Limsangouan, Sompoch Yai-eiam
Kasetsart University, Thailand

PS-01-a-106 Effect of Jerusalem artichoke powder as oil replacement on the particle size and rheological properties of emulsion
Supakchon Klongdee, Waraporn Prasert, Nednaps Vatanasuchart
Kasetsart University, Thailand
Program

PS-01-a-107 Effect of Heat Treatment on Properties during in vitro Digestion and Lipid Digestibility of Coconut Milk
Nattapol Tangsupphoom1, Chitrarorn Ngampeerapong1,2, Visith Chavasit1
1Mahidol University, Thailand, 2 Maejo University, Thailand

PS-01-a-108 Isolation of bisacurone from turmeric extract which shows protective effect against ethanol-induced hepatocyte injury
Chiaki Megumi1, Koutaru Muroyama2, Hiroshi Sasaki1, Nobuaki Tsuge1
1House Foods Group Inc., Japan, 2 House Wellness Foods Corporation, Japan

PS-01-a-109 Property of a UDP-glucose:glucosyltransferase for caffeic acid in tomato fruits
Ayaka Sakakibara1, Hideyuki Suzuki2, Daisuke Shibata1, Koh Acki1, Yoko Iijima1
1Kanagawa Institute of Technology, Japan, 2 Kazusa DNA Research Institute, Japan

PS-01-a-110 Vitamin C degradation products induce nonenzymatic protein glycation
Haruna Miyakawa1, Yuriko Shiobara1, Noriko Miyake2, Tadao Kurata3, Nobuaki Tsuge1
1Ochanomizu University, Japan, 2 Tokyo Kasei Gakuin University, Japan, 3 Niigata University of Pharmacy and Applied Life Sciences, Japan, 4Tokyo University of Agriculture, Japan

PS-01-a-111 Changes in nutritional elements and taste ingredients associated with the boiling time of Kandara jiru
Azumi Yamagishi1, Takaharu Kozakai1, Motoko Takaoka2, Asako Tamura3
1Yamagata University, Japan, 2 Kobe College, Japan, 3 Niigata Prefecture University, Japan

PS-01-a-112 Increasing the proportion of Thai herbs flavor in low sodium recipes enhance saltiness, overall balance flavor and consumer acceptability
Mekhora Chusana1, Nednapis Wattanasusart2, Wassana Narasri3
Kasetsart University, Thailand

PS-01-a-113 Luteolin exerts anti-inflammatory effects through regulating functional diversity of macrophage phenotypes
Minako Ishii1, Mayuko Osada-Oka1, Akari Fujiwara1, Kazuhiro Misumi1, Hiroshi Ichikawa2, Yukiko Minamiyama1
1Kyoto Prefectural University, Japan, 2 Doshisha University, Japan

PS-01-a-114 Immunologically regulatory function of the extracellular domain of butyrophilin1a1 (Btn1a1)
Yuki Kuwana1,2, Fumito Tani1,2, Tetsuya Masuda1,2
1 Food environment Laboratory, 2 Kyoto University, Japan

PS-01-a-115 Formulation of a low glycaemic index health snack , with no added sugar or sweeteners
Udeshi Kulasooriya1, Maduka de Lanerolle-Dias2, Usha Hettiarachchi2, Sharmila Jayasena1
1University of Colombo, Sri Lanka, 2University of Sri Jayewardenepura, Sri Lanka

PS-01-a-116 Silkworm pupae ( Bombyx mori ) are new sources of high quality protein, lipid, and alpha-glucosidase inhibitor
Hiroyuki Tomotake1, Toshiyuki Kohri2
1Iida Women's Junior College, Japan, 2 Kinki University, Japan

PS-01-a-117 Optimum preparation condition and antioxidant activity of miso made from Mucuna bean
Kumiko Iijima1, Fumiko Konishi2, Yoko Sato2, Takako Koriyama2, Midori Kasai2
1Toyo University, Japan, 2 Ochanomizu University, Japan, 3 Kagawa Nutrition University, Japan

PS-01-a-118 Purification and Identification of 20kDa Dehydrin Protein from Buckwheat Seed ( Fagopyrum esculentum cv. Kitawase)
Momma Michiko
National Food Research Institute, Japan

PS-01-a-119 Contents of physiologically active substances and non-volatile components of Cordyceps militaris mycelia with various doses gamma irradiation
Shih-Jeng Huang1, Tsai Shu-Yao2, Zih-Cyun Lin2
1Chung-Chou University of Science and Technology, Taiwan, 2 Asia University, Taiwan

PS-01-a-120 Suppression of Blood Glucose Level by Polyphenols in Water Chestnut ( Trapa japonica ) Husk
Yasuda Midori1, Masaru Ishimatsu1, Madoka Saiki1, Keiko Nakata1, Nozomi Ohmagari1, Teruyoshi Yanagita1, Kenichiro Yasutake2
1Nishikyushu University, Japan, 2 Nakamura Gakuen University, Japan
Program

PS-01-a-121 Research on the factor which influences the taste of a sweet adzuki-bean paste
Kumiko Akiyama
Showa Women's University, Japan

PS-01-a-122 Intragastric administration of allyl isothiocyanate increases carbohydrate oxidation via TRPV1 but not TRPA1 in mice
Noriyuki Mori1, Fuminori Kawabata2, Matsumura Shigenobu2, Inoue Kazuo2, Fushiki Tohru2
1The University of Shiga Prefecture, Japan, 2Kyoto University, Japan

PS-01-a-123 Intragastric administration of allyl isothiocyanate reduces hyperglycemia in intraperitoneal glucose tolerance test (IPGTT) by enhancing blood glucose consumption in mice
Tomomi Urata1, Noriyuki Mori1, Hanae Yamazaki2, Kazuo Inoue2, Tohru Fushiki2
1The University of Shiga Prefecture, Japan, 2Kyoto University, Japan

PS-01-a-124 To make processed foods from sword bean
Kaho Nishizawa1, Aya Sakai1, Yasuyuki Takenaka2, Hironori Masui1, Yasuhiro Ari1
1Mukogawa Women's University, Japan, 2Kobe Shoin Women's University, Japan

PS-01-a-125 Involvement of Sirtuin 1 in Polyphenol Functions
Mayo Hadano, Mayuko Osa, Tsubasa Ikeya, Che Wei Wu, Osamu Negishi, Miyazaki Hitoshi
University of Tsukuba, Japan

PS-01-a-126 The effects of HINE E-gel on the intestinal microbiota in rats
Fumiyo Yamada, Shinya Miki, Ippei Yamaoka, Goro Ebisu, Hiroshi Ikawaki
Otsuka Pharmaceutical Factory, Inc., Japan

PS-01-a-127 Combined effect of miso and exercise for diet-induced obesity in mice
Yasuna Kitano1, Yasutomo Kamei2, Tsuyoshi Tsuduki2
1Tohoku University, Japan, 2Kyoto Prefecture University, Japan

PS-01-a-128 Combined effect of miso and exercise for diet-induced obesity in mice
Yasuna Kitano1, Yasutomo Kamei2, Tsuyoshi Tsuduki2
1Tohoku University, Japan, 2Kyoto Prefecture University, Japan

PS-01-a-129 Taste thresholds and 6-n-propylthiouracil (PROP) taster status in Chinese and Indians
Siew Ling Tey, Claudia Leong, Jeyakumar Henry
A*STAR, Singapore

PS-01-a-130 Effects of Dioscin, a steroidal saponin in fenugreek with reduced bitterness, at elevated doses on ovariectomized mice
Hiroshige Chiba1, Shouhei Hoshino2, Keiko Taketani3, Etsuko Muraki2, Hamasaki Masanori2, Nobuaki Tsuge2
1Kanagawa Institute of Technology, Japan, 2House Foods Group Inc., Japan, 3Toyo University, Japan

PS-01-a-131 Pharmacokinetics of 4-methylimidazole and analysis of 4-methylimidazole in rat with LC / MS / MS
Misato Shigemori1, Yuko Hashimoto1, Mizuki Murata1, Miwako Koizumi1, Yuri Nomii2, Naoko Ando3, Yuzuru Otsuka4, Tadao Kurataa5, Seiichi Homma6, Emiko Suzuki7
1Ochanomizu University, Japan, 2Niigata University of Pharmacy and Applied Life Science, Japan, 3Indian Institute of Technology (IIT), India

PS-01-a-132 Albizia lebbeck L. Benth as promising sources of nutrients and bioactive components
Parunya Thiyajai, Somrsk Charoenkiatkul, Kunchit Judprasong, Chanika Chimkert
Mahidol University, Thailand

PS-01-a-133 Effect Of Different Bleaching Temperatures On Quality And Fatty Acid Profile Of Refined Catfish (Clarias Gariepinus) Oil
Mia Sriminati
Bogor Agricultural University, Indonesia

PS-01-a-134 The mechanism of inhibitory effect of plant-derived polyphenols on staphylococcal enterotoxin A activities
Chikako Hirai, Yuko Shimamura, Yuka Sugiyama, Shuichi Masuda
University of Shizuoka, Japan
PS-01-a-135 Factors reflecting taste property of Mango (*Mangifera indica* L.) harvested in Japan
Ayumi Yahada¹, Kumi Yamamoto¹, Yuko Ibaraki¹, Atsuko Funakoshi¹, Goki Maeda², Naoto Hirose², Hideaki Ohta¹
¹Nakamura Gakuen University, Japan, ²Okinawa Prefectural Agricultural Research Center, Japan

PS-01-a-136 Evaluation of Antioxidant activity and phenolic contents in selected cereals
Ayane Orita², Atsuko Funakoshi¹, Ayumi Yahada², Kumi Yamamoto¹, Yuko Ibaraki², Hideaki Ohta²
¹Nakamura Gakuen College, Japan, ²Nakamura Gakuen University, Japan

PS-01-a-137 The differences of nutrition components among various dessert banana cultivars
Makiko Kawaguchi¹, Kohei Maruyama², Makoto Yamada², Hisashi Osada²
¹Koshien University, Japan, ²Dole Japan, Ltd, Japan

PS-01-a-138 Characterization of chemical components and sensory evaluation in bitter melon (*Momordica charantia* L.) harvest in Japan
Kumi Yamamoto¹, Ayumi Yahada², Yuko Ibaraki², Kenta Yamamoto², Atsuko Funakoshi¹, Goki Maeda², Naoto Hirose³, Hideaki Ohta²
¹Nakamura Gakuen University Junior College, Japan, ²Nakamura Gakuen University, Japan, ³Okinawa Prefectural Agricultural Research Center, Japan

PS-01-a-139 Various food stuffs interact with umami substances -a human sensory test-
Kayoko Ueji, Takashi Yamamoto
Kio University, Japan

PS-01-a-140 Antioxidant capacity of the Korean diet using ORAC (oxygen radical absorbance capacity) assay
Min-Young Lee, Jeong-Hwa Han, Hyun-A Kim, Myung-Hee Kang
Hannam University, Korea

PS-01-a-141 Effect of Dairy and Non-Dairy Breeds on Quality of Raw Milk Used for Cheese Production
Sumeyye Memkeze, Murat Cimen, Rahime Kamer Onoglu
Tunceli University, Turkey

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Rahime Kamer Onoglu, Murat Cimen, Sumeyye Memkeze
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¹Iwate University, Japan, ²Tokachi Foundation, Japan, ³Obihiro University of Agriculture and Veterinary Medicine, Japan

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1The National Institute of Health and Nutrition, Japan, 2Toyo University, Japan, 3Tokyo Dietitian Academy, Japan, 4National Institute of Fitness and Sports in Kanoya, Japan, 5Chiba Prefecture University of Health Sciences, Japan

PS-01-a-222 The influence of breakfast skipping on nutrient adequacy in Thai children aged 3-12.9 years old: the SEANUTS study
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1Mahidol University, Thailand, 2FrieslandCampina Development Centre AMEA, Singapore

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Leah A. Perlas, Juanita M. Marcos, Josefina A. Desnacido, Imelda A. Agdeppa
Food and Nutrition Research Institute, Philippines

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Jane C-J Chao1, Pei-Ling Tsai1, Chien-Yeh Hsu2, Hsiao-Hsien Rau1, Chwen-Keng Tsao3, Bo-Ying Li1
1Taipei Medical University, Taiwan, 2National Taipei University of Nursing and Health Sciences, Taiwan, 3MJ Health Management Institution

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Takashi Yamamoto, Kayoko Ueji, Yuji Minematsu
Kio University, Japan

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1Qatar University, Japan, 2Supreme Council of Health, Japan

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1University of Niigata Prefecture, Japan, 2The University of Tokyo, Japan, 3Niigata University, Japan

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Cyprian Ouma
World Vision, Kenya
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Miki Miyoshi1, Nobuo Yoshiike2
1National Institute of Health and Nutrition, Japan, 2Aomori University of Health and Welfare, Japan

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Ayumi Yanagisawa1, Noriko Sudo1, Yukiko Amitani1, Caballero Yuko2, Makiko Sekiya2, Nael Aoun2, Christine Mukamugema2, Simeon Runesha3, Takuya Matsuoka4, Hiroaki Imanishi5, Takayo Sasaki5, Hirotaka Matsuda2
1Ochanomizu University, Japan, 2The University of Tokyo, Japan, 3World Vision Rwanda, Rwanda, 4World Vision Japan, Japan

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1National University of Malaysia, Malaysia, 2University Malaya, Malaysia

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1Universiti Kebangsaan Malaysia, Malaysia, 2Universiti Sains Malaysia, Malaysia, 3Nutrition Society of Malaysia, Malaysia, 4Universiti Putra Malaysia, Malaysia, 5International Medical University Malaysia, Malaysia, 6Universiti Teknologi MARA, Malaysia, 7Cereal Partners Worldwide, Switzerland, 8Nestlé R&D Center, Singapore

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University of the Immaculate Conception, Philippines

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1Seoul National University, Korea, 2The Catholic University of Korea, Korea

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1Seoul National University, Korea, 2Daejeon University, Korea

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1FANSA (Food and Nutrition Statistical Analysis), Korea, 2Hannam University, Korea, 3Yonsei University, Korea, 4Nutrition for the Future Inc., Korea, 5Yongin University, Korea, 6Sangmyung University, Korea, 7Daegu University, Korea

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¹Sangmyung University, Korea, ²Hannam University, Korea, ³Yonsei University, Korea, ⁴Nutrition for the Future Inc., Korea, ⁵Hannam University, Korea, ⁶Yonjing University, Korea, ⁷FANS (Food and Nutrition Statistical Analysis), Korea, ⁸Daegu University, Korea

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Food and Nutrition Research Institute, Philippines

AM Nutrition Education/Community Nutrition 1

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¹Wayamba University of Sri Lanka, Sri Lanka, ²University of Peradeniya, Sri Lanka, ³University of Ruhuna, Sri Lanka

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Kyoto Prefectural University, Japan

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Chiho Myojin¹, Satsuki Kawamura¹, Yukako Sato¹, Akiko Jyokoden², Masako Kawanishi¹
¹Kinki University, Japan, ²Kinki University Kindergarten, Japan

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Masako Kawanishi¹, Chiho Myojin¹, Satsuki Kawamura¹, Yukako Sato¹, Noriko Oita²
¹Kinki University, Japan, ²Gokurakubo Nursery School, Japan

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Yui Kojima, Rie Akamatsu
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¹Universitas Islam Makassar, Indonesia, ²Universitas Muslim Indonesia, Indonesia, ³Universitas Hasanuddin, Indonesia
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Bogor Agricultural University, Indonesia

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PS-01-a-256 The effect of pre-meal nutrition education on nutrition knowledge, attitudes, and dietary intake in fifth grade students of Taiwan
Shyuan Hsieh1, Wunsin Guo1, ‘Yu-Jhen Chang1, Yueching Wong1,2
1Chung Shan Medical University, Taiwan, 2Chung Shan Medical Hospital, Taiwan

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Tatsuaki Sakamoto1, Kouhei Hosoda2
1Jin-ai University, Japan, 2University of Niigata Prefecture, Japan

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1University Of Calcutta, India, 2Indian Council Of Medical Research, India

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1Prefectural University of Kumamoto, Japan, 2Showa Women’s University, Japan, 3Teikyo University, Japan, 4Nutrition Support Network LLC, Japan, 5Center for Medical Statistics, Japan

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Osaka city university, Japan

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Md. Ruhul Amin
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Yuko Sunami, Jun Oka
Tokyo Kasei University, Japan

PS-01-a-266 Frequent family dinner and voluntary mealtime communication are associated with better dietary intake among adolescent girls
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PS-01-a-267 Effect of school lunch on eating habits of junior high school students
Yumiko Odashima1, Tomoko Watanabe2, Ayuho Suzuki2
1Aikoku Gakuen Junior College, Japan, 2Chiba Prefectural University of Health Sciences, Japan

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1Hasanuddin University, Indonesia, 2Indonesia University, Indonesia, 3SEAMEO RECFON Indonesia, Indonesia
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1 Yamagata University, Japan, 2Yokohama National University, Japan

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Sirinya Phulkerd, Mark Andrew Lawrence, Stefanie Vandevijvere, Tony Worsley, Gary Sacks
1 Deakin University, Australia, 2University of Auckland, New Zealand

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1 Helen Keller International, Nepal, 2Helen Keller International, Asia-Pacific Regional, 3Helen Keller International, Cambodia, 4Ministry of Health and Population, Nepal, 5University of California, USA

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Food and Nutrition Research Institute, Philippines

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PS-01-a-276 The development of the 2012 Nutritional Guidelines for Filipinos (NGF)
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1 Food and Nutrition Research Institute, Philippines, 2Nutritionist-Dietitian’s Association of the Philippines, Philippines, 3Philippine Association for the Study of Overweight and Obesity, Philippines

PS-01-a-277 Community Kitchen Center for Feeding Children in Child Development Center (CDC) by Local Administration and Community, Thailand
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1 Ministry of Public Health, Thailand, 2Muang Kae Municipality, Thailand

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1 Australian National University, Australia, 2Sukhothai Thammathirat Open University, Thailand

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1 Hasanuddin University, Indonesia, 2Airlangga University, Indonesia, 3Gorontalo District Health Office, Indonesia, 4Health Polytechnic, Indonesia

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| **PS-01-a-286** Let’s think over the Dietary Reference Intakes for Japanese  
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¹Takeda Research Institute of Life Science, Japan, ²Kyoto Prefectural University of Medicine, Japan |
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¹Mahidol University, Thailand, ²Ministry of Public Health, Thailand, ³Institut de Recherche pour le Developpement, Montpellier, France |
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¹Mahidol University, Thailand, ²Ministry of Public Health, Thailand |
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¹Summit Institute Development, Indonesia, ²Mataram University, Indonesia, ³Provincial Health Department, Indonesia, ⁴UC Davis, USA, ⁵Harvard School of Public Health, USA |
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*University of the Philippines Los Banos, Philippines*

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1Dong-A Univ., Korea, 2Dong-A University Hospital, Korea

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1Dong-A Univ., Korea, 2Yonsei Univ., Korea, 3 Severance Hospital, Korea

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1Ochanomizu University, Japan, 2University of Tsukuba, Japan

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1Kagawa Nutrition University, Japan, 2Jichi Medical University, Japan, 3Mamie Hospital, Japan, 4Niigata Prefecture University, Japan, 5Suntory Wellness Ltd., Japan
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Chia-Han Tsai1, Ya-Li Huang1,2, Chien-Chun Li1,3
1Chung Shan Medical University, Taiwan, 2Kaohsiung Municipal Kai-Syuan Psychiatric Hospital, Taiwan, 3Chung Shan Medical University Hospital, Taiwan

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Chen-Yu Lin1, Chien-Chun Li1,2, Te-Chung Liu1
1Chung Shan Medical University, Taiwan, 2Chung Shan Medical University Hospital, Taiwan

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1Showa University School of Medicine, Japan, 2Kiryu University, Japan, 3Hoshi University School of Pharmacy, Japan, 4Tokyo Shokuryo Dietitian Academy, Japan

PS-01-p-010 Protective effects of different dietary proportion of fish oil on hepatic injury in chronic ethanol-fed rats
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Jiwen Zheng, Zhuosi Li, Yuki Manabe, Tatsuya Sugawara
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Saori Asai1, Yuri Kashima1, Satoshi Kanematsu1, Mio Kusada2, Suzuyo Watanabe1, Takuji Kawashima1, Tadashi Nakamura1, Masaya Shimada1, Tsuyoshi Goto2, Satoshi Nagaoka2
1Akitaya Honten Co., Ltd., Japan, 2Gifu University, Japan

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Yuji Sakai, Ayumi Komuro, Tatsuki Yamamoto, Masaya Shimada, Satoshi Nagaoka
Gifu University, Japan

PS-01-p-014 Ingestion of gac (Momordica cochinchinensis) improves lipid metabolism by promoting differentiation to mature adipocytes
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1Tokai Pickling Co., Ltd., Japan, 2Chubu University, Japan

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Showa Woman's University, Japan

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1Obhiro University, Japan, 2Nippon Flour Mills Co. Ltd., Japan

PS-01-p-017 The Preventive Effects of Astaxanthin and Various Dietary n-6/n-3 Fatty Acids on Induced Oral Carcinoma
An Liang1,2, Shih-Yi Huang1,2, Hsiu-Chuan Lee1,3,3
1School of Nutrition and Health Sciences, 2Program for Translation Medicine, 3Taipei Medical University, Taiwan

PS-01-p-018 The Preventive Effect of N-3 Polyunsaturated Fatty Acids on Cognitive Decline and Depressive Behavior in Aged Metabolic Syndrome Rats
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Taipei Medical University, Taiwan

PS-01-p-019 Gamma-Linolenic Acid Inhibits Lewis Lung Carcinoma Conditioned Medium-Induced Inflammation and Protein degradation in C2C12 Myotubes
Pei-Yin Chen, Kai-Li Liu, Wei-Ling Chiang
Chung Shan Medical University, Taiwan
PS-01-p-020 Effect of medium-chain triglycerides on cancer cachexia induced muscle wasting
Yu-Hui Shih, Kai-Li Liu, Te-Chung Liu
Chung Shan Medical University, Taiwan

PS-01-p-021 Hypocholesterolemic Effects of Lactic Acid-Fermented Soymilk on Rats Fed a High Cholesterol Diet
Maki Kobayashi1, Shintaro Egusa2, Mitsuru Fukuda2
1Hyogo University, Japan, 2Mukogawa Women’s University, Japan

PS-01-p-022 Interrelated effects of fish oil and alpha-lipoic acid on hepatic fatty acid synthesis and parameters for oxidative stress in rats
Takashi Ide, Mizuki Jimbo, Ayaka Itakura, Saori Okano, Mayuko Kameiwa, Miki Kawaziri, Arisa Sitara, Nozomi Takahashi
Jumonji University, Japan

PS-01-p-023 Comparative LDL-Cholesterol-Lowering Effects of Tea Seed Oil and Olive Oil in Hamsters
Nuchanart Suealek1, Wallace Yokoyama2, Panadda Rojpibulstit1, Hyunsook Kim3, Robert Hackman4
1Thammasat University, Thailand, 2U.S. Department of Agriculture, USA, 3Konkuk University, Korea, 4University of California, USA

PS-01-p-024 Histopathological Changes Of The Hamster Internal Organs After Ingestion High-Grape Seed Oil Diet
Panadda Rojpibulstit1, Nuchanart Suealek1, Wallace Yokoyama2, Hyunsook Kim3, Robert Hackman4
1Thammasat University, Thailand, 2U.S. Department of Agriculture, USA, 3Konkuk University, Korea, 4University of California, USA

PS-01-p-025 Effects of kombu powder feeding on glucose and lipid metabolism of rats
Hitomi Fukuda, Mika Kouno, Michiko Katsukawa, Sonomi Okuno, Nobuko Iritani
Tezukayama Gakuin University, Japan

PS-01-p-026 Intestinal digestion of ceramide 2-aminoethylphosphonate, a marine sphingolipid from squid
Nami Tomonaga, Dan Qi, Yuki Manabe, Tatsuya Sugawara
Kyoto University, Japan

PS-01-p-027 Effects of eicosapentaenoic acid on anxiety-like behavior in rat
Yasuyo Oshima, Takeshi Harada, Shun Endo, Asako Takenaka
Meiji University, Japan

PS-01-p-028 The effect of fatty acid composition of the Japanese food on the visceral fat accumulation
Yu Sakamoto, Tsuyoshi Tsuduki
Tohoku University, Japan

PS-01-p-029 Effect of Monascus-Purpureus supplementation on decrease LDL and cholesterol level in Hyperlipidemia: Double blind, placebo control study
Sheng-Fu Liu, Ying-Ruei Wang, Chin-Kun Wang
Chung Shan Medical University, Taiwan

PS-01-p-030 Comparison of catabolic rates of 13C-labeled palmitic acid bound to alpha and beta positions of triacylglycerol using expired CO2
Naohiro Gotoh1, Fumiaki Beppu1, Kaoru Konno2, Takashi Kawamatsu3, Toshiharu Nagai2, Kazuaki Yoshinaga2, Hoyo Mizobe2, Koichi Kojima2, Hiroyuki Watanabe2
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PS-01-p-031 Acute Effects of walking exercise on postprandial carbohydrate and lipoprotein metabolism following cookie ingestion in Japanese female students
Sayuki Hashimoto1, Erika Mizutani2, Akhiro Yoshida3, Michitaka Naito4
1Kinjo Gakuin University, Japan, 2College of Nagoya Bunri University, Japan, 3Nakatsugawa Municipal General Hospital, Japan, 4Sugiyama Jogakuen University, Japan

PS-01-p-032 Association between Physical Fitness and Lipid Profile of Overweight Students
Nazhif Gifari, Hardinsyah Ridwan
Bogor Agricultural University, Indonesia

PS-01-p-033 Effects of dietary intake of butyrate on GLUT-4 content in rat skeletal muscle
Yudai Nonaka1, Kazuhiro Higashida2, Michiyo Kimura3, Shin Terada4
1The University of Tokyo, Japan, 2Waseda University, Japan, 3Takasaki University of Health and Welfare, Japan
Program

PS-01-p-034 Effects of D-allulose, a C3 epimer of D-fructose, on lipid metabolism in isolated rat hepatocytes
   Akane Kanasaki1, Taishi Suzuki1, Norihiro Torisu1, Yohei Noguchi1, Yasuo Nagata1,2, Shizuka Tamur1, Kazunari Tanaka1
   1University of Nagasaki, Siebold, Japan, 2Nagasaki University, Japan

PS-01-p-035 The relationship between body composition and intramuscular lipids in young healthy female
   Chisato Nakada1, Takuya Osawa2, Yoshikazu Takanami3, Sakina Yoshida3, Yukari Kawai4
   1Otsuma Women's University, Japan, 2Japan Institute of Sports Sciences, Japan, 3Otsuma Women's University, Japan, 4Louis Pasteur Center for Medical Research, Japan

PS-01-p-036 Analysis of genomic region controlling the development of high-fat diet-induced fatty liver using congeneric mice
   Miyako Suzuki, Misato Kobayashi, Tamio Ohno, Junko Tsujimura, Hirotaki Oda, Atsushi Murai, Fumihiko Hori
   Nagoya University, Japan

PS-01-p-037 Detection of glycosylceramide species of koji Aspergillus oryzae by ESI-MS/MS and fragment ion analysis
   Hiroshi Hamajima, Susumu Mitsutake, Koji Nagao, Hiroshi Kitagaki
   Saga University, Japan

PS-01-p-038 Serum fatty acid composition of neonates, infants and young people measured by gas chromatography mass spectrometry
   Fumie Nishijima1, Eiko Hidaka2, Noriko Kubota3, Tomohiko Nakamura4, Takayuki Honda5, Minoru Hongo6, Hiroya Hidaka7
   1Nagano Children's Hospital, Japan, 2Shinshu University, Japan

PS-01-p-039 Direct separation of the diastereomers of phosphatidylcholine hydroperoxide bearing 13-hydroperoxy-9Z,11E-octadecadienoic acid using chiral stationary phase HPLC
   Junya Itô1, Kiyokata Nakagawa2, Shunji Kato3, Toshiharu Naga4, Teruo Miyazawa5
   1Tohoku University, Japan, 2Tsukishima Foods Industry Company, Japan

PS-01-p-040 Analysis of human serum sphingomyelin molecular species using MALDI-TOF mass spectrometry
   Atsushi Hori1, Mine Yamashita2, Shuhei Kidoguchi3, Minoru Hongo4, Takayuki Honda5, Hiroya Hidaka6
   1Shinshu University, Japan, 2University of Toyama, Japan, 3University of Fukui, Japan

PS-01-p-041 Dioscorea japonica extract suppresses cyclooxygenase-2 and microsomal prostaglandin E synthase-1 in lung carcinoma A549 cells and macrophage-like RAW264 cells
   Keisuke Toda1, Izumi Tsukayama2, Takuto Mega3, Mitsuji Tanaka4, Yasunori Takeda5, Toshiya Arakawa6, Yuki Kawakami7, Masumi Kimoto8, Yoshikata Takahashi9, Toshiko Suzuki-Yamamoto10
   1Okayama Prefectural University, Japan, 2Health Science University of Hokkaido, Japan

PS-01-p-042 The influence of n-3 fatty acid on maternal behavior and brain monoamine content in the perinatal period
   Akiko Harauma, Takayuki Sagisaka, Taku Horii, Shunichi Nakamura, Natsuko Wakinaka, Yoshitake Watanabe, Toru Moriguchi
   Azabu University, Japan

PS-01-p-043 The effects of arachidonic acid and/or docosahexaenoic acid on the brain development using artificial rearing of delta-6-desaturase knockout mice
   Erisa Hatanaka1, Hidemi Yasuda2, Akiko Harauma3, Junsuose Watanabe4, Yoshiko Konishi5, Manabu Nakamura6, Norman Salem7, Toru Moriguchi8
   1Azabu University, Japan, 2University of Illinois, USA, 3DSM Nutritional Products

PS-01-p-044 LC-MS/MS analysis of choline/ethanolamine plasmaploidens via promotion of alkali metals adduct formation
   Yuriya Otoki, Shunji Kato, Kiyotaka Nakagawa, Teruo Miyazawa
   Tohoku University, Japan

PS-01-p-045 The potential of bitter melon in prevention of non-alcoholic fatty liver disease
   Mei-Ling Chang1, Zhong-Hao Chien2, Shao-Chun Lu2
   1Shih Chien University, Taiwan, 2National Taiwan University, Taiwan
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PS-01-p-046 Effect of mixed tea made with unripe Citrus Unshiu and third-crop green tea leaves on hepatic lipid accumulation in rats
Shizuka Tamaru1, Mirei Iha1, Sayaka Shimamoto1, Hisayuki Nakayama1,2, Sadayuki Aramaki2, Yuji Miyata2, Takashi Tanaka1, Toshiro Matsui1, Yasuo Nagata1,3, Kazunari Tanaka1
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PS-01-p-047 Juar tea consumption increases endothelium-bound extracellular superoxide dismutase levels in men with metabolic syndrome: link with LDL oxidizability
Harumi Kondo1, Makoto Ayaori1, Yoshimi Kishimoto2, Tetsuo Adachi1, Kazuo Kondo2, Katsunori Ikewaki3
1National Defense Medical College, Japan, 2Ochanomizu University, Japan, 3Gifu Pharmaceutical University, Japan

PS-01-p-048 Inhibitory effect of nutmeg extract on 5-lipoxygenase activity
Okayama Prefectural University, Japan

PS-01-p-049 Effects of fish oil on the oxidative stress in obese Zucker rats
Yasue Hosoyamada, Masako Yamada
Chiba Prefectural University of Health Sciences, Japan

PS-01-p-050 Theoretical Interaction Analysis of Free Fatty Acid Receptor, GPR40 and GPR120 with omega-3 and omega-6 FFAs based on FMO Method
Yuka Nakano1, Erika Ishitsubo1, Koshuke Hayamizu2, Li Han2, Tomoko Tsuji2, Yasuo Watanabe3, Shizuo Yamada4, Hiroaki Tokiwa1
1Rikkyo University, Japan, 2Nippon Suisan Kaisha, Ltd., Japan, 3Yokohama College of Pharmacy, Japan, 4Univ. Shizuoka, Japan

PS-01-p-051 Effect of dietary astaxanthin on UVA-induced skin photoaging in hairless mice
Toshiyuki Komatsu1, Suguru Sasaki1, Yuki Manabe1, Hitomi Sato2, Takashi Hirata1, Tatsuya Sugawara1
1Kyoto University, Japan, 2FUJIFILM Corporation, Japan, 3Shionawate Gakuen University, Japan

PS-01-p-052 Effect of n-3 PUFA-rich TGs on Lipid Metabolism of Obese/diabetic KK-Ay Mice
Masashi Hosokawa, Kazuhiro Hashimoto, Yuki Sawada, Kazuo Miyashita
Hokkaido University, Japan

PS-01-p-053 Comparison of the effects of EPA and DHA on the development of NASH
Noriko Kemuriyama, Takashi Matsuoka, Takeuchi Yoshinori, Nakagawa Yoshimi, Yahagi Naoya, Yamada Nobuhiro, Shimanot Hitoshi
University of Tsukuba, Japan

PS-01-p-054 Characteristic MS/MS spectra of fatty acid hydroperoxide isomers recorded in the presence of alkali metals
Shunsuke Mizuochi, Shunji Kato, Junya Ito, Kiyotaka Nakagawa, Teruo Miyazawa
Tohoku University, Japan

PM — Nutritional Physiology 2

PS-01-p-055 Propolis supplementation modulates the angiogenic response to unloading in soleus muscle of rats
Miho Kanazashi1, Masayuki Tanaka1, Ryosuke Nakaniishi1, Yusuwe Hirayama1, Toshiyuki Maezawa1, Hiroyo Kondo2, Akihiko Ishihara3, Hidemi Fujino1
1Kobe University, Japan, 2Nagoya Women’s University, Japan, 3Kyoto University, Japan

PS-01-p-056 Effects of the intake of polyphenol on the recovery from anemia in mice
Michiyo Kaneko1, Takehiko Kaneko2, Miho Fujita1, Satomi Mizuhara1
1Kobe Women’s University, Japan, 2Wayo Women’s University, Japan

PS-01-p-057 Protective effects of omega-3 fatty acids on capillary regression in soleus muscle of hindlimb unloaded rats
Masayuki Tanaka1, Miho Kanazashi1, Ryosuke Nakaniishi1, Yusuwe Hirayama1, Toshiyuki Maezawa1, Hiroyo Kondo2, Akihiko Ishihara3, Hidemi Fujino1
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Program

PS-01-p-058  Association of n-3 polyunsaturated fatty acid levels with sleep disturbance in major depressive disorder
Norie Koga, Kotaro Hattori, Hiroaki Hori, Hiroshi Kunugi  
National Institute of Neuroscience, National Center of Neurology and Psychiatry (NCNP), Japan

PS-01-p-059  The influence of maternal inflammation during gestation on postnatal allergic diseases in murine models
Atsuko Imai, Eka Fujimoto, Kazuto Sato  
Japan Women's University, Japan

PS-01-p-060  Effects of dietary phosphatidylcholine on postprandial lymphatic inflammatory cytokine levels in rats
Bungo Shirouchi, Asuka Kawauchi, Yumiko Furukawa, Yuko Arima, Masao Sato  
Kyushu University, Japan

PS-01-p-061  The Effects of VIA Instant Coffee on Bench Press Performance: The Effects of Habituation
Sean M Mohney, Stephanie Stepp, Grant Slack, Amanda Wise, David Richter, Mike Frank, Sarah Schleich, Andrew Dunn, Lonnie Lowery  
University of Mount Union, USA

PS-01-p-062  Excitement and calm in Japanese cuisine: Effects of Kaiseki style dishes on mood states and autonomic nerve activity
Takiji Takahashi, Kohei Takada, Hanae Yamazaki, Tohru Fushiki  
1Kinobu restaurant, Japan, 2Kyoto University, Japan, 3Ryukoku University, Japan

PS-01-p-063  Study on Physiological Function of Lipid Nanoeumulsions
Kazuaki Kishita, Kenji Yamamoto, Shingo Hamayama, Masataka Shimizu, Kazuo Nishiyama, Masao Yamasaki  
1University of Miyazaki, Japan, 2Miyazaki Prefecture Industrial Technology Center, Japan

PS-01-p-064  Panaxatriol from Panax notoginseng stimulates mTORC1 signaling after resistance exercise in rat skeletal muscle
Yusuke Takamura, Yuhei Makanae, Satoru Ato, Naomi Yoshii, Mitsuru Nomura, Akira Uchiyama, Naruhiro Shiozawa, Satoshi Fujita  
1LION Corporation, Japan, 2Ritsumeikan University, Japan

PS-01-p-065  Transcriptomic analysis identifies novel genes expression in response to choline deficiency in mouse liver and in rat primary hepatocytes
Rina Watanabe, Kouji Mitsumoto, Hisaki Yonenaka, Takao Hashimoto, Norihisa Kato, Noriyuki Yanaka  
Hiroshima University, Japan

PS-01-p-066  Development of a new method for determination of central fatigue with intracranial self-stimulation
Kazuo Inoue, Satomi Ihi, Satoko Ueno, Miki Isono, Hiromitsu Nagayoshi, Fushiki Tohru  
Kyoto University, Japan

PS-01-p-067  Beta-cryptoxanthin inhibits osteoclast functions in inflammatory bone resorption
Ryota Ichimaru, Tsukasa Tominari, Matsumoto Chihou, Hirata Michiko, Inada Masaki, Miyaura Chisato  
Tokyo University of Agriculture and Technology, Japan

PS-01-p-068  Effects of insulin and glucagon on glucose metabolism in primary hepatocytes from rats with spontaneous type 2 diabetes mellitus
Miwako Deguchi, Riho Kobayashi, Akemi Hosoda, Azumi Yamagishi, Hiroaki Oda, Dong-Ho Kim, Shigeru Saeki  
1Osaka City University, Japan, 2Nagoya University, Japan

PS-01-p-069  Study on the cell survival regulation by lipids
Shota Nomiyama  
University of Miyazaki, Japan

PS-01-p-070  Interaction between circadian rhythm and chocolate intake in mice
Yuko Ikeda, Hiroyuki Sasaki, Yuta Hattori, Mayo Kamagata, Shigenobu Shibata  
Waseda University, Japan

PS-01-p-071  Soybean and Tempe Consumption Do Not Affect Serum Uric Acid Levels in Sprague-Dawley Rats
Dadi H Maskar, Hardinsyah Hardinsyah, Damayanthi Evy, Astawan Made, Wresidiyati Tuti  
Bogor Agricultural University, Indonesia
Program

PS-01-p-072 Evaluation of the odor masking of dimethyl sulfide by fragrance chemicals in foods
Kazumi Osada
Health Sciences University of Hokkaido, Japan

PS-01-p-073 The effect due to the interaction of different energy and macronutrients ratio on postprandial metabolism
Hidekazu Arai, Chisato Toda, Erika Seki, Yuuya Kajiya, Masae Sakuma
University of Shizuoka, Japan

PS-01-p-074 The role of advanced glycation end products on growth of endometrial cancer
Hsin-Yuan Chen, Li-Chung Lin, Yen-Ting Tung, Ting-Fang Cheng, Shih-Min Hsia
Taipei Medical University, Taiwan

PS-01-p-075 The role of advanced glycation end products on growth of leiomyoma
Ting-Fang Cheng, Yen-Ting Tung, Hsin-Yuan Chen, Li-Chung Lin, Shih-Min Hsia
Taipei Medical University, Taiwan

PS-01-p-076 Orientation of the histidine decarboxylase immunoreactive neurons in the rat and mouse hypothalamus
Chinatsu Moriwaki1,2, Seiichi Chiba2, Taishi Aosa2, Hirokazu Kitamura2, Keisuke Ina2, Yoshiiisa Fujikura2
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PS-01-p-077 Effects of cold exposure on energy metabolism-related genes expressions in rats with spontaneous metabolic syndrome
Misato Ikutani, Miwako Deguchi, Fumikaza Hayashi, Akemi Hosoda, Azumi Yamagishi, Shin Ebihara, Dong-Ho Kim, Shigeru Saeki
Osaka City University, Japan

PS-01-p-078 Effects of monosodium glutamate on metabolic disorders in low-birth-weight rats
Kumiko Takemori, Anna Miyamoto, Tsukasa Tatsumi, Takashi Kometani
Kinki University, Japan

PS-01-p-079 Role of Soy Protein and Polydextrose on Appetite and Glycemic Control
Christian Jeyakumar Henry
A*star, Singapore

PS-01-p-080 FGF21 ameliorates methionine-choline deficient diet-induced fatty liver
Ryuto Maruyama1, Makoto Shimizu1, Jun Inoue1, Nobuyuki Itoh2, Ryuichiro Sato1
1University of Tokyo, Japan, 2Kyoto University, Japan

PS-01-p-081 AMPK and PPARdelta Activation Improves Endurance in Trained Mice
Mark Christian C. Manio, Kazuo Inoue, Ai Eguchi, Mina Fujitani, Takayuki Irahara, Tohru Fushiki
Kyoto University, Japan

PS-01-p-082 Effects of chronic intake of acetate on muscle fiber type and endurance performance
Hiromi Yamashita, Chihiro Araoka, Yukihiro Yoshimura, Aya Araki, Masumi Kimoto
Okayama Prefectural University, Japan

PS-01-p-083 The effect of starvation in weaning period on diet-related changes in the expression of inflammation-related genes in the adipose tissue
Kazue Honma1, Riko Mawatari1, Misa Ikeda1, Kazuki Mochizuki2, Toshinao Goda1
1University of Shizuoka, Japan, 2University of Yamanashi, Japan

PS-01-p-084 Chronic skipping breakfast decrease diet-induced thermogenesis
Takuya Taira1, Shizuka Ogawa1, Yuka Watanabe2, Hisao Fujii1, Morimasa Katō1
1Yamagata Prefectural Yonezawa University of Nutrition Sciences, Japan, 2Sendai University, Japan

PS-01-p-085 Ketogenic diet induces a unique metabolic state in heart and skeletal muscles
Yuiko Hatanaka, Ayano Naka, Kozue Shimizu, Kaoruko Iida
Ochanomizu University, Japan

PS-01-p-086 Identification of novel fish-derived peptides lowering blood glucose in mice
Tatsuhiko Ayabe1, Wakana Ota1, Takafumi Mizushige1, Kohsuke Hayamizu1, Kaori Yokoi2, Li Han2, Tomoko Tsuji2, Ryueki Kanamoto1, Kousaku Ohinata1
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PS-01-p-087 Effect of caffeine, capsaicin, and several amino acids on the lipid metabolism from chrononutritional view
Kenichiro Misawa, Yuko Ikeda, Shigenobu Shibata
Waseda University, Japan

PS-01-p-088 Ubiquitin ligase Cbl-b is a negative regulator for insulin-like growth factor 1 signaling during muscle atrophy caused by unloading
Takayuki Uchida1, Takeshi Nikawa1, Tomoki Abe1, Shohei Kohnò2, Katsuya Hirasaka3, Ayako Ohno1, Shigetada Kondo1, Yuushi Okumura4, Edward M. Mills2,3
1University of Tokushima, Japan, 2University of Texas at Austin, USA, 3Nagasaki University, Japan, 4Sagami Women's University, Japan

PS-01-p-089 Effect of Yamabushitake mushroom (Hericium erinaceus) intake on functional and physicochemical properties of skeletal muscle in mice
Wataru Mizunoya, Toshiya Nakamura, Daisuke Imoto, Yusuke Komiya, Fuminori Kawabata, Mako Nakamura, Ryuichi Tatsumi, Yoshihde Ikeuchi
Kyushu University, Japan

PS-01-p-090 Change of energy expenditure and circulation after single oral dose of flavan-3-ols are induced by the stimulation of sympathetic nerve
Naomi Osakabe, Kodai Inagawa, Naoya Kamio, Rikihiko Ebe, Takuma Suzuki, Masahiro Shibata
Shibaura Institute of Technology, Japan

PS-01-p-091 Effect of fructose on the phosphorylation of AMP-activated protein kinase and acetyl-CoA carboxylase in HepG2 cells stimulated with placental lactogen
Yuuka Mukai1, Yui Miyamoto1, Shin Sato2
1Kanagawa University of Human Services, Japan, 2Aomori University of Health and Welfare, Japan

PS-01-p-092 Differential effects of dietary restriction and exercise on lipolysis capacity in white adipose tissue
Yuka Kurosaka1,2, Hideki Yamauchi1, Yoko Shiroya2, Kumiko Minato2
1Jikei University Of Medicine, Japan, 2Wayo Women's University, Japan

PS-01-p-093 Study of the interaction between sterol response element-binding protein (SREBP) and SREBP cleavage-activating protein
Yen-Chou Kuan, Makoto Shimizu, Jun Inoue, Makoto Ryuichiro Sato
The University of Tokyo, Japan

PS-01-p-094 Transient deficit in energy and carbohydrate increases 24-h fat oxidation
Kaito Iwayama1, Nana Kurosawa1, Hitomi Ogata1, MomoKO Kayaba1, Insung Park1, Katsuhiko Yajima2, Fumi Kobayashi1, Kazuteru Nakamura2, Maki Sato1, Naomi Omi1, Masanobu Hibi4, Sachiko Oishi4, Koichi Yasunaga4, Kumpei Tokuyama1
1University of Tsukuba, Japan, 2Tokyo Seiei College, Japan, 3Ibaraki Christian University, Japan, 4Kao Corporation, Japan

PS-01-p-095 Oolong, black and pu-erh tea suppresses adiposity in mice via activation of AMP-activated protein kinase
Yoko Yamashita, Liuqing Wang, Hitoshi Ashida
Kobe University, Japan

PS-01-p-096 Acetic acid increases adenosine monophosphate level and phosphorylation of AMP-activated protein kinase in skeletal muscles
Aya Araki, Yoshimura Yukihiro, Morikami Naoko, Kimoto Masumi, Yamashita Hiromu
Okayama Prefectural University, Japan

PS-01-p-097 Comparison of flavan-3-ols components on the sympathetic nerve stimulation activity
Yuta Nakagawa, Satomi Abe, Naomi Osakabe
Shibaura Institute of Technology, Japan

PS-01-p-098 Physiological Effects of L-Theanine on Sleep Onset and Quality of Sleep
Makato Ozeki1, Mahendra P. Kapoor1, Shuichiro Shirakawa3, Tsutomu Okubo1
1Taiyo Kagaku Co. Ltd., Japan, 2National Institute of Mental Health, Japan
Program

PM

Food Science 2

PS-01-p-099 Antimicrobial effect of spices for extended shelf life of Spare rib Ham
Jirawan Oonmettaaree
Nakhon Ratchasima Rajabhat University, Thailand

PS-01-p-100 The study of the difference in feeding behavior elicited by hunger or palatability
Tatsuya Okahashi, Kazuhiro Sakamoto, Shigenobu Matsumura, Satoshi Tsuzuki, Kazuo Inoue, Tohru Fushiki
Kyoto University, Japan

PS-01-p-101 Effect of rice powder on the texture and viscoelasticity of Starch gels and Gomatofu
Emiko E Sato, Aki A Hasebe
University of Niigata Prefecture, Japan

PS-01-p-102 Changes in content of functional elements in onion extract by heat-treatment
Takanori Suzuki1, Shigenobu Shiotani1, Nobuya Yanai1,2
1Tokai Bussan Co., Ltd., Japan, 2National Food Research Institute, NARO, Japan

PS-01-p-103 Salacinol and Related Analogs, New Leads for Type 2 Diabetes Therapeutic Candidates from the stems of Salacia chinensis
Junji Akaki1,2, Toshio Morikawa1, Kiyofumi Ninomiya1, Eri Kinouchi1, Genzoh Tanabe2, Yutana Pongpiriyadacha1, Masayuki Yoshikawa1, Osamu Muraoka1
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PS-01-p-104 Search for Chemokine Receptor CCR3 Selective Antagonist as Anti-allergic Principles from Mace, the Arils of Myristica fragrans
Ikuko Hachiman, Kazuhiro Matsuo, Kiyofumi Ninomiya, Osamu Muraoka, Takao Hayakawa, Takashi Nakayama, Toshio Morikawa
Kinki University, Japan

PS-01-p-105 Phenylpropanoids from Alpinia galanga with Lipid Metabolism-promoting Activity in High Glucose-pretreated HepG2 cells
Yoshiaki Manse1, Kiyofumi Ninomiya1, Ryosuke Nishi1, Chie Sakai1, Saowanee Chaipech2, Takao Hayakawa1, Osamu Muraoka1, Toshio Morikawa1
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PS-01-p-106 Effects of Extraction Conditions on quality and antioxidant activity of Purple Corn Cob KPSC 903 extracts
Udomlak Sukatta, Prapassorn Rugthaworn, Wataneer Suravanichnirachorn, Ketsaree Klinsuknon, Lalita Khacharat, Thanapoom Maneepoon
Kasetsart University, Thailand

PS-01-p-107 Acylated Saponins from Tea Flower, the Flower Buds of Camellia sinensis, with Anti-proliferative Effects on Human Digestive Tract Carcinoma Cells
Chiaki Motai1,2, Niichiro Kitagawa1,2, Kiyofumi Ninomiya1, I-Jung Lee3, Masayuki Yoshikawa1, Osamu Muraoka1, Toshio Morikawa1
1Kinki University, Japan, 2Koshiro Co., Ltd., Japan, 3National Research Institute of Chinese Medicine, Taiwan

PS-01-p-108 Flavonol Glycosides from Tea Flower, the Flower Buds of Camellia sinensis, with Lipid Accumulation Inhibitory Activity
Shuhei Okugawa1,2, Niichiro Kitagawa1,2, Kiyofumi Ninomiya1, I-Jung Lee3, Masayuki Yoshikawa1, Osamu Muraoka1, Toshio Morikawa1
1Kinki University, Japan, 2Koshiro Co., Ltd., Japan, 3National Research Institute of Chinese Medicine, Taiwan

PS-01-p-109 Hot water extract of edible Chrysanthemum morifolium Ramat. exert antidiabetic effects in obese diabetic KK-A' mice
Junpei Yamamoto, Miki Tadaishi, Takumi Yamane, Yuichi Oishi, Makoto Shimizu, Kazuo Kobayashi-Hattori
Tokyo University of Agriculture, Japan

PS-01-p-110 Antioxidant and neuronal PC12 cell protective effects of flavonoids from Epimedium koreanum on hydrogen peroxide-induced oxidative damage
Miran Jang, Gun-Hee Kim, Sunghyun Lee
Duksung Women's University, Korea
Identification of chlorogenic acid lactones as xanthine oxidase inhibitors produced during the roasting process of coffee beans
Sari Honda1, Akiko Masuda2, Kento Moriyama2, Toshiya Masuda1
1University of Tokushima, Japan, 2Shikoku University, Japan

The anticarcinogenicity of microalgae, Nostoc genus
Akihiro Ohara1, Mafumi Kawamura1, Yuji Yamaguchi2, Hiroyuki Takenaka1, Ken-ichiro Minato1
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In vitro metabolism of kaempferol tetramethylether by rat liver microsomes
Kenta Yamamoto1, Chiho Ohta1, Hitomi Ogata1, Tetsuya Endo2, Osamu Kimura2, Yoshihisa Kato3, Koichi Haraguchi4, Nobuyuki Koga1
1Nakamura Gakuuen University, Japan, 2Health Sciences University of Hokkaido, Japan, 3Kagawa School of Pharmaceutical Sciences, Tokushima Bunri University, Japan, 4Daiichi College of Pharmaceutical Sciences, Japan

In vitro metabolism of nobiletin in the small intestine and kidney of rats and guinea pigs
Chiho Ohta1, Yoshihisa Kato2, Koichi Haraguchi3, Tetsuya Endo4, Nobuyuki Koga1
1Nakamura Gakuuen University, Japan, 2Health Sciences University of Hokkaido, Japan, 3Daiichi College of Pharmaceutical Sciences, Japan, 4Glico Dairy Products Co., Ltd., Japan

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1Aomori University of Health and Welfare, Japan, 2Glico Dairy Products Co., Ltd., Japan

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1Nihon University, Japan, 2Pathein University, Myanmar

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1Temasek Polytechnic, Singapore, 2National University of Singapore, Singapore, 3National Institute of Fundamental Studies, Sri Lanka

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¹I-Shou University, Taiwan, ²Taipei Medical University, Taiwan

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¹Iwate Medical University, Japan, ²Iwate Industrial Research Institute, Japan

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¹University of Nagasaki, Japan, ²Jumonji University, Japan

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¹Kitami Institute of Technology, Japan, ²Kansai University, Japan

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<td>(^1)Tumor Hospital of Fujian Province, China, (^2)Fujian Medical University, China, (^3)Xiamen Maternal and Children Hospital, China</td>
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<td>(^1)Hokkaido Bunkyo University, Japan, (^2)Rakuno Gakuen University, Japan, (^3)Hokkaido University, Japan</td>
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1The University of Tokyo, Japan, 2The University of Tokyo Hospital, Japan, 3foo.log, Inc, Japan, 4NTT DOCOMO, Inc, Japan

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1Lee’s Endocrinology, Taiwan, 2National Taiwan University Hospital, Taiwan

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1Ritsumeikan University, Japan, 2Sun Chlorella Corp., Japan

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1Nagoya Keizai University, Japan, 2Nagoya Keizai University Clinical Nutrition Center, Japan, 3Mark Corporation, Japan, 4Hyogo College of Medicine, Japan

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1Wayamba University of Sri Lanka, Sri Lanka, 2University of Peradeniya, Sri Lanka, 3University of Colombo, Sri Lanka

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1National Institute of Neuroscience, National Center of Neurology and Psychiatry, Japan, 2National Center Hospital, National Center of Neurology and Psychiatry, Japan

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1TNP2K, Indonesia, 2Universitas Indonesia, Indonesia

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1Singapore Institute for Clinical Sciences (SICS), Agency for Science, Technology and Research (A*STAR), Singapore, 2Nanyang Technological University, Singapore, 3KK Women's and Children's Hospital, Singapore, 4National University Health System, Singapore, 5National University of Singapore, Singapore, 6University of Southampton & University Hospital Southampton NHS Foundation Trust, UK, 7University of Auckland, New Zealand

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¹University of Human Arts and Sciences, Japan, ²Showa Women’s University, Japan

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¹Tokyo Kasei Gakuin University, Japan, ² Nitobe Bunka College, Japan

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¹Sagami Women's University, Japan, ²Showa Women's University, Japan, ³Bunkyo University, Japan, ⁴Showa Women's University Graduate School, Japan, ⁵Teikyo University, Japan, ⁶Center for Medical Statistics, Japan

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¹Hiroshima Jogakuin University, Japan, ²Himawari Dental Clinic, Japan

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¹Tokyo Kasei Gakuin University, Japan, ²J-OIL MILLS INC., Japan, ³University of Human Arts and Sciences, Japan

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¹Nakamura Gakuin University, Japan, ²Nishikyushu University, Japan, ³Fukuoka University, Japan, ⁴Steel Memorial Yawata Hospital, Japan

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<td>National Taiwan Normal University, Taiwan</td>
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<th>PS-01-p-278</th>
<th>Examination of Effect of Practical Nutrition Education on University Male Long-distance Runners</th>
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<td>Kinuyo Kanbe</td>
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<th>PS-01-p-279</th>
<th>Transtheoretical Model is effective for nutrition education in young healthy athletes</th>
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<td>Kanako Katai, Kitagawa Misaki, Kangawa Ayumi</td>
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<td>Doshisha Women’s college of Liberal Arts, Japan</td>
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Program

PM  Public Health Nutrition 2

PS-01-p-280 Assessing the Impact of Food Regulations in Singapore: A Content Analysis of F&B Advertising Landscape
Reidinar Juliane Wardoyo, May Lwin, Wonsun Shin, Hattie Liew, Yeo Su Lin
Nanyang Technological University, Singapore

PS-01-p-281 Increasing the Cadres's Welfare
Eskaning Arum Pawestri
University of Indonesia, Indonesia

PS-01-p-282 To Evaluate the Adherence of Enteral Formulas to DRIs in Taiwan
Barbara Ying Jung Chen1, Steve Ma2, Frances Chang Ma3
1Nutritec Enjoy Corporation, Taiwan, 2Nutritec Enjoy Nutrition Center, Taiwan

PS-01-p-283 Nutritional and behavioral determinants of childhood obesity: a case-control study in Sri Lanka
Senarath Mahamithawa1, Kumari M. Rathnayake2, R. Gajatheepan1, VP Wickramasinghe3
1Ministry of Health, Public Health Complex, Sri Lanka, 2Wayamba University of Sri Lanka, Sri Lanka, 3University of Colombo, Sri Lanka

PS-01-p-284 Stunting in India: Its association with the triad of feeding, care and environmental health
Ashi Kohli Kathuria, John Lincoln Newman, Mohini Kak
World Bank, India

PS-01-p-285 Food security of migrants in a regional area of Australia A qualitative study
Joanne Sin Wei Yeoh1, Quynh Le2, Rosa Mcmanamey3
University of Tasmania, Australia

PS-01-p-286 The role of dairy in helping Vietnamese children to meet their daily nutrient requirements: the South East Asian Nutrition Survey
Khanh Bao Le Nguyen1, Burgers Minke1, Tuyen Danh Le1, Chinh Huu Nguyen1, Truong Hong Nguyen1, Deurenberg Paul2, Khouw Tan Ilse3
1National Institute of Nutrition (NIN), Vietnam, 2Nutritional Consultant, 3FC Company

PS-01-p-287 Study on Application of Fatty Acids and Its Alkali Salts for the Biocontrol of Acanthamoeba
Manami Masuda1, Mariko Era1, Takayoshi Kawahara2, Takahide Kanyama3, Hiroshi Morita3
1The University of Kitakyusyu, Japan, 2Shabondama Soap Co., Ltd., Japan

PS-01-p-288 Application to the toxic inspection to the food additive of Allivibrio fischeri
Chinatsu Nagahama1, Hitomi Kuwahara1, Junko Ninomiya1, Hiroshi Morita2
The University of Kitakyushu, Japan

PS-01-p-289 The Effects of Fatty Acid Salts Against Cladosporium Cladosporioides and Dermatophagoides Farinae
Yui Okuno1, Mariko Era1, Takayoshi Kawahara2, Takahide Kanyama3, Hiroshi Morita4
1The University of Kitakyushu, Japan, 2Shabondama Soap Co., Ltd., Japan

PS-01-p-290 Acceptance and Nutritional Potency of Wild Food Plants for Improvement of Community Diet in Food Insecure Area
Annis Catur Adi, Dini Ririn Andrias
Universitas Airlangga, Indonesia

PS-01-p-291 High prevalence of malnutrition among adult women and children in food insecure rural households
Thamilini Joshepkumar, Renuka Silva, Udith Jayasinghe
Wayamba University of Sri Lanka, Sri Lanka

PS-01-p-292 Factors and Consequences of Food Insecurity among Welfare Recipients in Bangi And Kajang, Selangor Malaysia
Norhasmah Sulaiman
Universiti Putra Malaysia, Malaysia

PS-01-p-293 Correlation of Socio Economic Status (SES) with Perceived Food Accessibility based on HFIAS in Three Different Areas of Indonesia
Nia Novita Wirawan1, Hasan La Kabolosi2, Ratna Chрисмиari Purwestri3, Gemala Qurbani1, Devilia Mega1
1University of Brawijaya, Indonesia, 2Health Polytechnic of Kendari, Indonesia, 3University of Hohenheim, Germany
Program

PS-01-p-294 Effect of Chitosan Silkworm Pupae Skin Substitution of Formalin toward Storability of Tofu
Taufiq Firdaus Alghifari Atmadja1, Clara M Kusharto2, Pipih Suptijah3
1Taufiq Firdaus Alghifari Atmadja University, Indonesia, 2Clara M. Kusharto University, Indonesia, 3Pipih Suptijah University, Indonesia

PS-01-p-295 Molecular mechanistic study of virulence factors related to biofilm formation of Enterococcus faecalis
Yen-Jou Hsu, Su-Hua Huang
Asia University, Taiwan

May 16 (Saturday)

Poster Session 02

AM  Nutritional Biochemistry 3

PS-02-a-001 The effect of different sources of n-3 fatty acids on lipid metabolism and body fat in ovariecetomized rat
Wan-Chun Chiu1, Yen-Shou Chiu1,2, Chi-Chang Huang3, Pei-Hsuan Li1
1Taipei Medical University, Taiwan, 2National Taiwan Sport University, Taiwan

PS-02-a-002 Inhibition of leukocyte-type 12-lipoxygenase activity by Chinese tea
Yoshiko Mori1, Akemi Otsuki1, Shuji Okochi1, Kensuke Okamoto1, Yuki Kawakami1, Toshiko Suzuki-Yamamoto1, Yamashita Hiromi1, Kimoto Masumi1, Hideaki Tsuji1, Hideyuki Ito1, Ding Zhi Fang2, Yoshitaka Takahashi1
1Okayama Prefectural University, Japan, 2Sichuan University, China

PS-02-a-003 Influence of conjugated linoleic acid on erythrocyte deformability of rats fed with high fat diets at different caloric intakes
Hong-Jen Liang1, Mei-Chun Yeh1, Jia-Cheng Chang1, Teruyoshi Yanagita2
1Yuanpei University of Medical Technology, Taiwan, 2Nishikyushu University, Japan

PS-02-a-004 Caffeine stimulates protein degradation systems and inhibits muscle hypertrophy in skeletal muscle cells
Tatsuro Egawa, Yoshitaka Ohno, Shingo Yokoyama, Miho Suzuki-Takawa, Akihiro Ikuta, Ayumi Goto, Katsumasa Goto
Toyohashi SOZO University, Japan

PS-02-a-005 Amino acids have effects on the inflammatory state and the barrier function in human intestinal epithelial Caco-2 monolayers
Hiroyuki Kuzuoka, Norifumi Sato
EN Otsuka Pharmaceutical Co., Ltd., Japan

PS-02-a-006 Effect of dietary ornithine on the nerve growth factor and the choline acetyltransferase in the brain regions in aged rats
Kazuyo Tujikoda1, Takashi Yamada2, Hidehiko Yokogoshi3, Saori Akiduki3, Yukihiro Hishida3, Kazutoshi Hayase4
1Ohkagakuen University, Japan, 2Chubu University, Japan, 3KYOWA HAKKO BIO CO., LTD, Japan, 4Aichi University of Education, Japan

PS-02-a-007 Structure-function analysis of NAD(P)H-dependent carbonyl reductase specifically expressed in thyroidecetomized(Tx) chicken fatty liver
Yudai Fukuda1, Takeki Sone1, Tomohiro Araki1, Takahiro Niki1, Haruhiko Sakuraba2, Toshihisa Ohshima3, Takeshi Shibata1, Kazunari Yoneda1
1Tokai University, Japan, 2Kagawa University, Japan, 3Osaka Institute of Technology, Japan

PS-02-a-008 Ten amino acids inhibit kynurenic acid formation via suppressing kynurenine uptake or kynurenic acid synthesis in rat brain in vitro
Airi Sekine, Misaki Okamoto, Yuka Kanatani, Mitsue Sano, Katsumi Shibata, Tsutomu Fukuwatarai
University of Shiga Prefecture, Japan

PS-02-a-009 The examination of clinical picture of hypo-aminoacidemia in Japanese health check-up subjects
Hiroko Jinzu1, Kenji Nagao1, Takayuki Tanaka1, Akira Imaizumi1, Hiroshi Yamamoto1, Akiko Toda2, Mizuki Tani3, Yuko Ishizaka3, Minoru Yamakado2
1Ajinomoto Co., Inc., Japan, 2Mitsui Memorial Hospital, Japan
PS-02-a-010  Suppressive effect of lysine on autophagic-proteolysis through Akt/AMPK/mTOR signaling pathway in C2C12 cells  
Tomonori Sato, Yoshiaki Ito, Takashi Nagasawa  
Iwate University, Japan

PS-02-a-011  Effects of dietary protein on muscle protein degradation and synthesis in hindlimb suspension  
Yuka Yachi, Yoshiaki Ito, Takashi Nagasawa  
Iwate University, Japan

PS-02-a-012  L-Tyrosine, but not D-tyrosine, quickly enters into several brain regions in mice  
Shinya Takagi, H. Ikeda, T. Kawase, M. Nagasawa, V.S. Chowdhury, S. Yasuo, M. Furuse  
Kyushu University, Japan

PS-02-a-013  Effects of orally administered threonine on low-molecular-metabolite concentrations in plasma and tissues of growing rats  
Junji Yano, Shozo Tomonaga  
Kyoto University, Japan

PS-02-a-014  Wheat protein hydrolysate stimulates GLP-1 secretion in murine enterodocrine L cell model and rats  
Masaki Kato, Tsubasa Tani, Takenori Nakanishi, Takanori Tsuda  
Chubu University, Japan

PS-02-a-015  Degranulation Inhibitory Activity May Depend on Peptide Binding and Peptide Sequence  
Mamoru Tanaka¹, Hiroyuki Watanabe¹, Hana Kozai², Yoshinobu Yoshimoto³, Ikuko Shimada¹, Tomoko Hirochi¹, Satoshi Numata¹, Ayuka Tagashira³, Takeaki Okamoto⁴  
¹University of Kochi, Japan, ²Chubu University, Japan, ³Seirei Christopher University, Japan, ⁴Ehime University, Japan

PS-02-a-016  Metabolism of Glycated Tryptophan Compounds in the Chickens Fed Tryptophan-excess Diets  
Ryosuke Makino, Kazumi Kita  
Iwate University, Japan

PS-02-a-017  Glycated amino acid orally administrated to the chicken can be incorporated into blood  
Natsuki Takahashi, Kazumi Kita  
Iwate University, Japan

PS-02-a-018  Influence of feeding diets high in citrulline, ornithine or taurine on glycation of plasma tryptophan and valine in chickens  
Ayaka Homma, Kazumi Kita  
Iwate University, Japan

PS-02-a-019  Amino acids modulate expression of Th2-type cytokines from mast cells  
Masako Kawamoto¹, Kayo Masuko¹  
Sagami Women's University, Japan

PS-02-a-020  Bioactivity and nutritional evaluation of housefly larvae  
Hujun Li¹, Asako Inoue¹, Suguru Taniguchi¹, Tomohiko Yukutake¹, Takeru Nose², Keitaro Suyama², Yasuharu Nakano³, Ryohei Maeda³, Iori Maeda¹  
¹Kyushu Institute of Technology, Japan, ²Kyushu University, Japan, ³E's Inc., Japan

PS-02-a-021  REDD1 transiently attenuates mTORC1 signaling during and after the exercise in rat muscle  
Taro Murakami, Miki Hayasaka, Haruka Tsunekawa, Mariko Yoshinaga  
Shigakkan University, Japan

PS-02-a-022  Young mice fed protein-free diet exhibits ghrelin resistance, mimicking aged mice  
Shin Iguchi, Kousaku Ohinata, Yuri Miyazaki, Junya Nakato, Ryuhei Kanamoto  
Kyoto University, Japan

PS-02-a-023  Effectiveness of aronia berries for reduction of fatty tissues in mice fed a high-fat diet and gene expression analysis  
Takuya Yamane¹, Miyuki Kozuka¹, Iwoa Ohkubo², Hiroyoshi Ariga¹  
¹Hokkaido University, Japan, ²Tenshi College, Japan

PS-02-a-024  The effects of liver hydrolysate on physical fatigue and sickness behavior  
Kotaro Yamada¹, Osamu Nakagawasai², Wataru Nemoto², Hidetomo Sakurai¹, Koichi Tan-No²  
¹Zeria Pharmaceutical Co., Ltd., Japan, ²Tohoku Pharmaceutical University, Japan
Program

PS-02-a-025 Occurrence of orally administrated glutathione in bloods and liver and small intestine of rat
Hiroaki Yamada¹, Toru Konishi²,³, Yusuke Sauchi², Wataru Aoi⁴, Sayori Wada⁴, Eun Young Park⁴, Yasushi Nakamura⁴, Kenji Sato¹
¹Kyoto University, Japan, ²KOHJIN Life Science Company, Ltd., Japan, ³Kyoto Prefectural University, Japan

PS-02-a-026 Rapid increase of fibroblast growth factor 21 under protein malnutrition and its impact on
growth and lipid metabolism
Yori Ozaki¹, Kenji Saito², Kyoko Nakazawa², Morichika Konishi³, Nobuyuki Itoh⁴, Fumihiko Hakuno², Shin-Ichiro Takahashi⁴, Hisanori Kato², Asako Takenaka¹
¹Meiji University, Japan, ²The University of Tokyo, Japan, ³Kobe Pharmaceutical University, Japan, ⁴Kyoto University Graduate School of Pharmaceutical Sciences, Japan

PS-02-a-027 Identification of DPP IV inhibitors from aronia water extract
Miyuki Kozuka¹, Takuya Yamane¹, Iwao Ohkubo², Hiroyoshi Ariga¹
¹Hokkaido University, Japan, ²Tenshi College, Japan

PS-02-a-028 Physiological Significance of The Metabolic Pathways for Methylated Arginines in Rat Brain
Okayama Prefectural University, Japan

PS-02-a-029 Leucine administration following mechanical stimuli enhances activation of translational
initiation in skeletal muscle cells
Naoya Nakai¹, Fuminori Kawano¹, Taro Murakami¹, Ken Nakata¹
¹Osaka University, Japan, ²Shigakukan University, Japan

PS-02-a-030 Chronically low level of BCAAs in skeletal muscle induced by muscle specific-promotion of
BCAA catabolism enhances BCAA-stimulated mTOR signaling
Takuya Ishikawa, Yasuyuki Kitaura, Minjun Xu, Miki Ota, Yukako Morishita, Yoshihiro Kadota, Yoshiharu Shimomura
Nagoya University, Japan

PS-02-a-031 Effects of enhanced BCAA catabolism induced by branched-chain alpha-ketoacid
dehydrogenase (BCKD) kinase deficiency on adaptation to exercise training in mice
Minjun Xu, Yasuyuki Kitaura, Takuya Ishikawa, Yoshihiro Kadota, Takashi Morioka, Miki Ota, Yukako Morishita, Yoshiharu Shimomura
Nagoya University, Japan

PS-02-a-032 Effects of fasting on the concentrations of plasma branched-chain amino acids (BCAAs) in
mice that BCAA catabolism is genetically promoted
Yukako Morishita, Yasuyuki Kitaura, Takuya Ishikawa, Yoshihiro Kadota, Miki Ota, Yoshiharu Shimomura
Nagoya University, Japan

PS-02-a-033 Genetically reduction of the branched-chain amino acid (BCAA) concentrations in muscle
accelerates diet-induced obesity (DIO)
Miki Ota, Yasuyuki Kitaura, Yoshihiro Kadota, Takuya Ishikawa, Rina Kato, Yukako Morishita, Minjun Xu, Yoshiharu Shimomura
Nagoya University, Japan

PS-02-a-034 N-Myristoylated ubiquitin ligase Cbl-b inhibitor prevents on glucocorticoid-induced atrophy
in mouse skeletal muscle
Marina Takagi¹, Arisa Ochi¹, Kanako Kitahata¹, Hikaru Kishimoto¹, Reiko Nakao¹,², Ayako Maita¹, Shigetada Kondo¹, Tomoki Abe¹, Hisao Nemoto¹, Takeshi Nishizawa¹
¹The University of Tokushima, Japan, ²National Institute of Advanced Industrial Science and Technology

PS-02-a-035 Identification of Indigestible Peptides from Soy Peptide
Akane Miki¹, Keita Kimura¹, Eun Young Park¹, Yasushi Nakamura¹, Kenji Sato²
¹Kyoto Prefectural University, Japan, ²Kyoto University, Japan

PS-02-a-036 Effect of 2 months of cow milk administration on plasma amino acid levels in aged subjects
Michiko Okamura¹, Momoko Yoshizumi¹, Masaki Taga¹, Toshikazu Suzuki¹, Michiyasu Kaneko², Takehiko Kaneko¹
¹Wayo Women's University, Japan, ²Kobe Women's University, Japan

PS-02-a-037 A novel mechanism responsible for regulation of the BCAA catabolism: regulation of
branched-chain alpha-ketoacid dehydrogenase (BCKD) kinase by thiamine pyrophosphate
Yusuke Kondo, Yoshiharu Kadota, Yasuyuki Kitaura, Yoshiharu Shimomura
Nagoya University, Japan
Program

PS-02-a-038 Release of vasorelaxing peptides derived from soy beta-conglycinin and their long-lasting hypotensive effects after oral administration
Chinatsu Okuda, Ryo Omae, Noriyasu Kontani, Takafumi Mizushige, Ryuhei Kanamoto, Kousaku Ohinata
Kyoto University, Japan

PS-02-a-039 Effect of amino acids on food intake in the anorexia rodent models
Mika Hamada, Uchida Ry, Mine Tomoyuki, Hayashi Naoki
Ajinomoto co., inc., Japan

PS-02-a-040 Estimation of protein requirement for Japanese elderly people using the indicator amino acid oxidation method
Aki Ogawa1,2, Chikage Goto1, Noriko Sakoi1, Kanako Shimizu1, Kohsuke Hayamizu2, Yukiko Kobayashi1, Masashi Kuwahata, Yasuhiko Kid1
1Kyoto Prefectural University, Japan, 2Kyoto College of Nutritional & Medical Sciences, Taiwa Gakuen Education INC., Japan, 3Nippon Suisan Kaisha, Ltd., Japan

PS-02-a-041 Identification of increased glutathione-binding protein in human plasma after supplementation of glutathione
Saki Shirako1, Sayori Wada1, Wataru Aoi1, Eun Young Park1, Yasushi Nakamura1, Kenji Sato2
1Kyoto Prefectural University, Japan, 2Kyoto University, Japan

PS-02-a-042 Effect of Rice Bran Protein on chronic kidney disease-mineral and bone disorder (CKD-MBD) in Type-2 diabetic ZDF rats
Shogo Sugaki1, Erika Komori1, Masatoshi Kubota1, Reiko Watanabe2, Hiroyuki Hashimoto2, Yukikazu Harada1, Michihiro Hosojima1, Akihiko Sito1, Shinobu Fujimura1, Motoni Kadowaki1
1Niigata University, Japan, 2University of Niigata Prefecture, Japan, 3Tsunoda Food Industrial Co., Ltd., Japan

PS-02-a-043 Effect of rice endosperm protein on systemic and intestinal immunity
Takuya Kamada1, Satoshi Terao1, Masatoshi Kubota1, Aya Sekiguchi1, Hajime Otani2, Hisanori Kato3, Mikio Fuji1, Shinobu Fujimura1, Motoni Kadowaki1
1Niigata University, Japan, 2Shinshu University, Japan, 3The University of Tokyo, Japan, 4Kameda Seika Co., Ltd., Japan

PS-02-a-044 Urinary excretion of 3-hydroxykynurenine as a biomarker for excess intake of L-tryptophan
Chiaki Hiratsuka1, Tsutomu Fukuwatari2, Katsumi Shibata2
1Nagoya Bunri University, Japan, 2The University of Shiga Prefecture, Japan

PS-02-a-045 Alaska Pollack Protein increases skeletal muscle weight in male, female and ovariectomized rats
Yuma Hara1, Mariko Sawai1, Kohsuke Hayamizu2, Kaori Yokoi2, Tomoko Tsuji2, Taro Kishida1
1Ehime University, Japan, 2Nippon Suisan Kaisha, Ltd., Japan

PS-02-a-046 IGF-1 do not involve in skeletal muscle hypertrophy mechanism by Alaska Pollack Protein in rats without exercise overload and restriction
Mariko Sawai1, Yuma Hara1, Keisuke Uozumi1, Machi Yasui1, Kohsuke Hayamizu2, Kaori Yokoi2, Tomoko Tsuji2, Takafumi Mizushige1, Taro Kishida1
1Ehime University, Japan, 2Nippon Suisan Kaisha, Ltd., Japan

PS-02-a-047 Affect-related behaviors and plasma composition of amino acids in mice under short day were modified by dietary proteins
Tsunosuke Otsuka, Ryosei Goda, Ayaka Iwamoto, Misato Kawai, Satomi Shibata, Yoshiaki Oka, Wataru Mizunoya, Mitsuhiro Furuse, Shinobu Yasuo
Kyushu University, Japan

PS-02-a-048 Effect of protein restriction on hepatic uptake of very low-density lipoprotein
Arisa Seki, Sohei Kanisawa, Yukino Takenouchi, Yuko Obata, Asako Takenaka
Meiji University, Japan

PS-02-a-049 Administration of D-cycloserine suppresses kynurenic acid production in rat brain
Yusuke Kuroki, Chihiro Yamamoto, Airi Sekine, Noriyuki Mori, Tsutomu Fukuwatarai
The University of Shiga Prefecture, Japan

PS-02-a-050 Effect of dietary whey peptides on the fasting serum triglyceride level and on the hepatic secretion of triglyceride in rats
Masanobu Sakono1, Daigo Yokoyama1, Hajime Fukuno1, Sakakibara Hiroyuki1, Ken Kato Nara2, Ken Kato2
1University of Miyazaki, Japan, 2Megmilk Snow Brand Co., Ltd., Japan
### Program

#### PS-02-a-051 The intestinal epithelial cell damage is caused by histidine deficiency
Tomoka Fujita¹, Tatsunobu Matsu¹, Kazuhiro Misumi², Mayuko Osada-Oka¹, Hiroshi Ichikawa², Yukiko Minamiyama¹
¹Kyoto Prefectural University, Japan, ²Doshisha University, Japan

#### PS-02-a-052 The effect of the wheat peptide on muscle glycogen accumulation after exercise
Kazuko Kato, Mayumi Hokyoyama, Kanako Wakamura, Ryo Kakutani, Hiroko Yatsushashi, Takashi Furuyashiki, Takashi Ichihara, Hiroshi Kamasaka, Takeshi Takaha, Takashi Kuriki
Ezaki Glico Co, Ltd, Japan

#### PS-02-a-053 The existence and dynamism of collagen-related dipeptide in pre-chondrogenic cells
Yuto Endo¹, Sachie Nakatani¹, Rina Kasai¹, Yoshifumi Kimira¹, Hiroshi Mano¹, Aya Kataoka¹, Fumihito Sugihiara¹, Naoki Inoue², Kenji Kobata¹, Masahiro Wada¹
¹Josai University, Japan, ²Nitta Gelatin Inc., Japan

#### PS-02-a-054 The oral supplementation of soy protein-derived dipeptides accelerates the neurotransmitter metabolism
Kazuki Moriyasu¹, Takashi Ichinose¹, Akane Nakahata¹, Motohiro Maebuchi², Mitsuru Tanaka¹, Toshiro Matsui¹, Shigeki Furuya¹
¹Kyushu University, Japan, ²Fuji Oil Company, Japan

#### PS-02-a-055 Role of Arginine in Restitution and Proliferation of Intestinal Epithelial Cells
Tatsunobu Matsu¹, Ayaka Wada², Tomoka Fujita¹, Kazuhiro Misumi², Mayuko Osada-Oka¹, Hiroshi Ichikawa², Yukiko Minamiyama¹
¹Kyoto Prefectural University, Japan, ²Doshisha University, Japan

#### PS-02-a-056 Various Metabolic Changes Caused by Liver-specific Phgdh Deletion in Mice
Shinya Mohri¹, Kayoko Esaki¹, Kazuki Moriyasu¹, Takashi Ichinose¹, Yasuhiro Shimizu¹, Yutaka Kawarabayashi¹, Yoshio Hirabayashi², Shigeki Furuya¹
¹Kyushu University, Japan, ²RIKEN Brain Science Institute, Japan

#### PS-02-a-057 Disruption of sphingolipid homeostasis by L-serine deficiency
Kayoko Esaki¹, Chiaki Sonoda², Takashi Suzuki², Tomoko Sayano¹, Masahiro Okamoto², Takeo Yoshikawa¹, Yoshio Hirabayashi¹, Shigeki Furuya²
¹RIKEN Brain Science Institute, Japan, ²Kyushu University, Japan

#### PS-02-a-058 Supplementation of a protein-free diet with whey hydrolysates prevents skeletal muscle mass loss in rats
Yodai Kobayashi¹, Yuuki Sornoto¹, Eri Mitsuyama¹, Azusa Tanaka¹, Naoki Yuda¹, Akio Yamada¹, Koji Yamauchi¹, Fumiake Abe¹, Takashi Nagasawa¹
¹Morinaga Milk Industry Co., Ltd., Japan, ²Iwate University, Japan

### AM - Nutritional Physiology 3

#### PS-02-a-059 Effects of breakfast composition on diet-induced thermogenesis and body temperature
Naoko Komenami, Kaori Iwasaki, Nana Takayama, Emi Kawashima, Satoko Takemura, Kayoko Yamazaki
Kyoto Women's University, Japan

#### PS-02-a-060 Time-dependent changes in the glycogen levels of skeletal muscle and liver after exercise in a rat model
Shoyo Kato, Chika Maehara, Hitomi Ogata, Naomi Omi
University of Tsukuba, Japan

#### PS-02-a-061 Chronic chlorella intake and high intensity intermittent exercise enhance exercise capacity and muscular glycolytic enzyme activity in rats
Natsukki Hasegawa¹, Koji Sato¹, Naoki Horii¹, Shumpei Fujie¹, Toru Mizoguchi², Masato Onishi², Izumi Tabata¹, Motoyuki Iemitsu¹
¹Ritsumeikan University, Japan, ²Sun Chlorella Corp, Japan

#### PS-02-a-062 Hydration using novel high molecular polysaccharides fluid achieved rapid water absorption and short gastric emptying
Kengo Ishihara¹, Saki Kondo¹, Mayu Maruyama¹, Takashi Furuyashiki²
¹Sugiyama Jogakuen University, Japan, ²Ezaki Glico Co., Ltd., Japan

#### PS-02-a-063 The variation of substrate oxidation during sleep adjusted for sleep stage in young adults
Momoko Kayaba¹, Insung Park¹, Iwayama Kaito¹, Ogata Hitomi¹, Katsuhiko Yajima², Masanobu Hibi³, Sachiko Oishi¹, Koichi Yasunaga³, Makoto Satoh¹, Kumpeki Tokeyama¹
¹University of Tsukuba, Japan, ²Tokyo Seiei College, Japan, ³Kao Corporation, Japan
PS-02-a-064  The inhibition of gastrointestinal TRPV1 enhances carbohydrate oxidation and energy expenditure in mice
Fuminori Kawabata, Jun Hai, Shotaro Nishimura, Shoji Tabata
Kyushu University, Japan

PS-02-a-065  Effects of isocaloric high-fat low-carbohydrate and low-fat high-carbohydrate diets on energy and lipid metabolism in rats and mice
Ikeda Ikuo, Ogawa Nozomi, Ogawa Yukari, Inoue Nao
Tohoku University, Japan

PS-02-a-066  Effects of Berberine and Emodin Administrations at Different Ratios on Pro-/Anti-Inflammatory Cytokine Secretions Using Mouse Primary Peritoneal Macrophages
Pao-Chia Chou, Jin-Yuarn Lin
National Chung Hsing University, Taiwan

PS-02-a-067  Immunostimulating effect of Eurycoma longifolia extract (Physta(R)) on humans - A Randomized Controlled Trial
Yuuki Kawasaki1, Suzuki Naoko1, George Annie2, Abas Binti Azreena2, Chinnappan A/P M Sasikala2, Kazama Aki3, Hosaka Koichi3, Kiminori Mohri3, Utsuyama Masanori4,5, Katsuki Hirokawa5, Tсуyoshi Takara6
1ORTHOMEDICO Inc., Japan, 2Biotropics Malaysia Berhad, Malaysia, 3Ask Intercity Co. Ltd., Japan, 4Tokyo Medical & Dental University, Japan, 5Health Life Science Co. Ltd., Japan, 6Seishinkai Medical Association, Takara Medical Clinic, Japan

PS-02-a-068  Cbl-b Is a Critical Regulator of Macrophage Activation Associated With Obesity-Induced Insulin Resistance in Mice
Tomoki Abe1, Katsuya Hirasaka2, Takayuki Uchida1, Marina Takagi1, Ayako Ohno1, Shigetada Kondo1, Takeshi Nikawa1
1Tokushima University, Japan, 2The University of Nagasaki, Japan

PS-02-a-069  Effects of Canned Pineapple Consumption on Nutritional Status, Immunomodulation and Physical Health of Selected School Children
Mavil May C. Cervo1, Leonora N. Panlasigui1, Erlin B. Barrios2, Luisito O. Llido3
1Philippine Women's Univ-Manila, Philippines, 2University of the Philippines-Diliman, Philippines, 3St. Luke's Medical Center, Philippines

PS-02-a-070  Intake of indigestible carbohydrates influences immunoglobulin A response and polymeric immunoglobulin receptor expression in the rat submandibular gland
Yuko Yamamoto1, Masahiro T0, Yusuke Nakagawa1, Tomoko Shimizu1, Juri Saruta1, Toru Takahashi2, Keiichi Tsukinoki1
1Kanagawa Dental University, Japan, 2Fukuoka Women's University, Japan

PS-02-a-071  Development of Siraitia grosvenorii (Luo Han Guo) silage and evaluation of its effectiveness on immune function enhancement in mice
Yuta Ito1, Misa Ogushi1, Guihua Chi2, Kumiko Kitano3, Toshinori Kameoka3, Yoshihisa Nakano4,5, Yui Murata1
1Saraya Co., Ltd., Japan, 2Osaka Prefecture University, Japan, 3Biogas Systems Research Association, Japan, 4Osaka Women's Junior University, Japan

PS-02-a-072  Modulation of rat macrophage functions by isomaltooligosaccharides
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1Hokkaido University, Japan, 2National Food Research Institute, Japan

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1Okayama University, Japan, 2Okayama Prefectural University, Japan, 3Ohmori Health Care Company, Japan

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1Hamamatsu Photonics K. K., Japan, 2Aichi Gakuin University, Japan, 3Healthcare Systems Co. Ltd., Japan, 4Hamamatsu University School of Medicine, Japan, 5Medicinal Chemistry, Japan

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1Shou University, Taiwan, 2E-Da Hospital, Taiwan

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1National Taiwan Normal University, Taiwan, 2National Taiwan University, Taiwan

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1University of Ulsan, Korea, 2Kyoto University, Japan

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1Complutense University of Madrid, Spain, 2La Paz Hospital of Madrid, Spain, 3Institute of Agrochemistry and Food Technology, Spain

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1Spanish National Research Council (CSIC), Spain, 2Biomedical Centre for Research (CIB) of the Health Science Technological Park (PTS) of Granada, Spain

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1Oryza Oil & Fat Chemical Co., LTD., Japan, 2Kyoto Pharmaceutical University, Japan

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¹Riken Vitamin Co., Ltd, Japan, ²Kitasato University, Japan

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¹Shikoku University, Japan, ²KISCO LTD., ³MARUZEN PHARMACEUTICALS CO., LTD.

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¹Mukogawa Women’s University, Japan, ²Kyoto Koka Women’s University, Japan

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¹University of Tokyo, Japan, ²Yamagata University, Japan

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¹Osaka Prefecture University, Japan, ²Osaka Women's Junior College, Japan

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¹Grape King Biotechnology Inc., Taiwan, ²National Chung Hsing University, Taiwan
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1Koshien University, Japan, 2Kyoto Prefectural University, Japan, 3Kyoto University, Japan

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1University of Colombo, Sri Lanka, 2Institute of Chemistry, Sri Lanka

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1Shujitsu University, Japan, 2SATAKE Corporation, Japan, 3RIBS Okayama, Japan

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1Fukuyma University, Japan, 2University of Tokushima, Japan

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1Shujitsu University, Japan, 2Research Institute for Biological Sciences Okayama, Japan, 3SATAKE Corporation, Japan

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1Hiroshima Institute of Technology, Japan, 2Kio University, Japan

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1Sojo University, Japan, 2University of Miyazaki, Japan, 3Miyazaki Nokyokaju, Japan

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1MARUSA SHOJI CO., LTD, Japan, 2KRI, Inc., Japan, 3Kyoto University, Japan

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1Osaka City University, Japan, 2Kitasato University, Japan

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1Osaka City University, Japan, 2Life Science Institute Co., Ltd., Japan

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1Polytechnic University, Japan, 2Yaizu Suisankagaku Industry, Japan, 3Shizuoka University, Japan

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1Josai University, Japan, 2Morishita Jintan Co., Ltd., Japan

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Megmilk Snow Brand Co., Ltd., Japan

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1Josai University, Japan, 2Nitta Gelatin Inc., Japan

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1Kyushu University, Japan, 2Nippon Meat Packers, Inc., Japan

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Universiti Sains Malaysia, Malaysia

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1Japan Food Research Laboratories, Japan, 2Tohoku University, Japan

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1University of Miyazaki, Japan, 2Megmilk Snow Brand Co., Ltd., Japan

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Asae Nakamura1, Mihoko Moto1, Kaname Katsuraya1, Kazuyasu Iwasaki2, Katsuyuki Tanaka2, Akihiko Murota3
1Wayo Women’s University, Japan, 2Okuno Chemical Industries Co., Ltd, Japan, 3Meiji University, Japan

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1Obihiro University of Agriculture and Veterinary Medicine, Japan, 2Hokkaido Research Organization, Japan

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1Kobe University, Japan, 2Meiji Co., Ltd., Japan

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1University of Sri Jayewardenepura, Sri Lanka, 2Royal Botanical Garden, Sri Lanka.

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1Fuji Women’s University, Japan, 2Hiroshima University, Japan

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1Nara Women's University, Japan, 2Mercian Corporation, Japan

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1National Kaohsiung Marine University, Taiwan, 2Fooyin University Hospital, Taiwan, 3Chang Jung Christian University, Taiwan

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¹Showa Gakuin Junior College, Japan, ²Jumonji University, Japan

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Universiti Sultan Zainal Abidin, Malaysia

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¹Kaohsiung Medical University, Taiwan, ²National Taiwan Sport University, Taiwan

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Anusorn Lungkaphin¹, Anchalee Pongchaidecha¹, Siripong Palee², Phatchawan Arjinajarn³,
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¹Chiang Mai University, Thailand, ²Ma Fah Luang University, Thailand, ³Lampang Rajabhat University, Thailand

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Katagiri Yoshinori¹, Wakamatsu Kyoko³, Komeyama Hiroyuki³, Nakamura Tsuyoshi³
¹Fukuoka Women's University, Japan, ²Kanagawa University of Human Services, Japan, ³Prefectural University of Kumamoto, Japan, ⁴Stelic Institute & Co, Tokyo, Japan

PS-02-a-207  Oral Administration of EPA or DHA Modifies Cardiac Function and Ameliorates Congestive Heart Failure in Male Rats
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Tadahiro Tsushima³, Yoshihisa Misawa³, Mitsumasa Mankura⁴
¹Kagawa Prefectural University of Health Sciences, Japan, ²Okayama University, Japan, ³Bizen Chemical, Japan, ⁴Kurashiki Sakuyo University, Japan

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Nippon Suisan Kaisha Ltd., Japan
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Shakti Deep Pachauri1, Santosh Kumar Totra2, Kiran Khandelwal1, Kashif Hani3, Jitendra Kumar Saxena3, Anil Kumar Dwivedi4
1Division of Pharmaceutics, 2Division of Pharmacology, 3Division of Biochemistry, 4CSIR-Central Drug Research Institute, India

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1Nihon University, Japan, 2Jichi Medical University, Japan

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Aya Yanagimoto1, Ikuyo Ichi1, Sakie Igarashi1, Tetsuya Matoba2, Susumu Takase2, Kensuke Egashira2, Yoko Fujiwara1
1Ochanomizu University, Japan, 2Kyushu University, Japan

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Tilakavati Karupaiah1, Chuah K. Aik1, Karuthan Chinna2, Ryosuke Matsuoka3, Masuda Yasunobu3, Kalyana Sundram4, Michiho Sugano1
1National University of Malaysia, Malaysia, 2University of Malaya, Malaysia, 3Kewpie Corporation, Japan, 4Malaysian Palm Oil Council, Malaysia, 5Kyushu University, and Prefectural University of Kumamoto, Japan

PS-02-a-214 Inhibitory effects of the extracts from Kaempferia parviflora on cell adhesion and cellular ROS production in human endothelial cells
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1Japan Food Research Laboratories, Japan, 2Tohoku University, Japan, 3Ramkhamhaeng University, Thailand, 4Okinawa Prefectural Agricultural Research Center, Japan, 5Okinawa National College of Technology, Japan

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1Tohoku University, Japan, 2Nippon Medical School, Japan, 3The Cardiovascular Institute, Japan

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Hitoshi Obara, Mamoru Doi
National Hospital Organization Kamaishi National Hospital, Japan

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1Asia University, Taiwan, 2Hercet biotech Ltd, Taiwan

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So Ra Yoon1, Ga Yoon Na1, Seong Ho Han2, Oh Yen Kim1
1Dong-A University, Korea, 2Dong-A University Hospital, Korea

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1Taipei Medical University, Taiwan, 2Universitas Gadjah Mada, Indonesia
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Shin Takayama¹, Yasutake Momma², Megumi Tsubota-Utsugi³, Soichiro Kaneko¹, Takehiro Numata¹, Satoru Nagase¹, Nobuo Yaegashi¹, Tadashi Ishii¹
¹Tohoku University, Japan, ²Tohoku University Hospital, Japan, ³National Institute of Health and Nutrition, Japan

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University of Miyazaki, Japan

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Toyo University, Japan

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Tokyo University of Technology, Japan

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CSIR-Central Drug Research Institute, India

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¹Okayama Prefectural University, Japan, ²Tokyo Metropolitan Institute of Medical Science, Japan

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Misako Kawai¹, Setsuko Kuwahara²,³, Masahiro Sunaga²,³, Hiroki Matsubara²,³, Noriko Aoki²
¹Ajinomoto Co., Inc., Japan, ²National Cancer Center Hospital, Japan, ³Shukutoku University, Japan

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Roderick H. Dashwood
Texas A&M University, USA

PS-02-a-234  Pterostilbene Combined with Chloroquine Promotes Pancreatic Cancer Cell Apoptosis through Downregulation of RAGE-STAT3 Mediated Autophagy Pathway
Rong-Jane Chen¹, Yi-Jhen Lyu¹, Ying-Jan Wang¹,²,³
¹National Cheng Kung University, Taiwan, ²Asia University, Taiwan, ³China Medical University, Taiwan

PS-02-a-235  Nobiletin suppresses high-fat diet-stimulated tumor growth and lymph node metastasis of B16F10 melanoma cells in a mouse allograft cancer model
Jae In Jung¹, Hyerin Song¹, So Young Park¹,²,³, Gyoo Taik Kwon¹,²,³, Je Tae Woo³, Jung Han Yoon Park¹,²,³
¹Hallym University, Korea, ²Seoul National University, Korea, ³Okinawa Research Center Co., Ltd., Japan
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¹Asia University, Taiwan, ²China Medical University, Taiwan, ³Rakuno Gakuen University, Japan, ⁴Tokyo University, Japan |
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¹Hasanuddin University, Indonesia, ²Airlangga University, Indonesia, ³Showa Woman’s University, Japan, ⁴Japan Health Care College, Japan |
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¹Public Health Institute, Mongolia, ²University of the West of England, UK, ³University of Bristol, UK, ⁴University of Birmingham, UK |
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¹Showa Woman’s University, Japan, ²Japan Health Care College, Japan                                                                           |
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Mahidol University, Thailand

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Kornazawa Women's University, Japan

PS-02-a-252 Longitudinal association of serum carotenoids with pulse wave velocity: the Mikkabi study
Mieko Nakamura1, Minoru Sugiuara2, Toshiyuki Ojima1
1Hamamatsu University School of Medicine, Japan, 2NARO Institute of Fruit Tree Science, National Agriculture and Food Research Organization, Japan

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University of Shizuoka, Japan

PS-02-a-254 White rice consumption and risk of esophageal cancer in northwest China
Andy H. Lee, Li Tang, Colin W. Birns
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PS-02-a-255 Assessing Understanding of the DOHaD Hypothesis in Target Communities to Inform Translational Intervention Design
Masahito Oyamada1, Sarah Morgan2,3, Robyn Dixon4, Clare Wall4, Jacqui Bay2,3
1Fuji Women's University, Japan, 2University of Auckland, New Zealand, 3Gravida: National Centre for Growth and Development, New Zealand, 4University of Auckland, New Zealand

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United Arab Emirates University, United Arab Emirates

PS-02-a-257 Dairy foods consumption, anthropometric characteristics and human gut Bifidobacterium and Lactobacillales in Japanese
Kyonori Kuriki1,2,3, Kaori Endoh1,2,3, Takayoshi Hisada2,3, Shimpei Kawaguchi2,3, Chio Goto4
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PS-02-a-258 Nutritional status of schoolchildren in Kuantan, Pahang: A Preliminary study
Roselawati Mat Yn, Wan Azdie Mohd Abu Bakar, Aflah Afandi, Siti Rokiah Mohd Hadzri
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PS-02-a-259 Association between nutrient intake in the remote past and telomere length
Inkyung Baik1, Chol Shin2
1Kookmin University, Korea, 2Korea University Medical School Ansan Hospital, Korea

PS-02-a-260 Effect of n-3 PUFA on plasma metabolites in type 2 diabetes: a double-blinded randomized controlled trial
Duo Li1, Jusheng Zheng1, Mei Lin2, Ling Wang2
1Zhejiang University, China, 2Tongji Medical College, China, 3Huazhong Agricultural University, China

PS-02-a-261 Kimchi Intake and the prevalence of Atopic Dermatitis in Korean adult age 19-49
Mi Hyang Um1, Yoo Kyoung Park2, Hyejung Kim1, Seyoung Ju2
1Kyung Hee University, Korea, 2Dankook University, Korea

PS-02-a-262 Identification of main Sodium intake contributor among North-Eastern region population in Thailand
Uraiporn Chittchang, Pasamai Eg-Kantrong, Orapin Banjong, Punnee Pornprachanuwat, Praiwan Tantiwattanasatein
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PS-02-a-263 Association between nutrient intake in the remote past and telomere length
Inkyung Baik1, Chol Shin2
1Kookmin University, Korea, 2Korea University Medical School Ansan Hospital, Korea

PS-02-a-264 Intake of meat and fish, and survival in community-dwelling Japanese males
Rei Otsuka1, Yuki Kato1, Mariko Nakamoto1, Tomoko Imai1,2, Fujiko Ima1,3, Hiroshi Shimokata1,4
1National Center for Geriatrics and Gerontology, Japan, 2Doshisha Women’s College of Liberal Arts, Japan, 3Aichi Shukutoku University, Japan, 4Nagoya University of Art and Science, Japan
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PS-02-a-265 A 7-year prospective study of anemia and loss of active life in older Japanese
Yuri Yokoyama1,2,3, Mariko Nishi1, Hiroshi Murayama1, Hidenori Amano1, Yu Taniguchi1, Yu Nofuji1, Miki Narita1, Eri Matsumo1, Satoshi Seino1,2, Yukari Kawano1, Shoji Shinkai1
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PS-02-a-266 Impact of nutritional supplementation and exercise schedule in Pre-Frail elderly subjects
Alka M. Chutani, A. B. Dey, Prasoon Chatterjee, Meenakshi Tyagi
All India Institute of Medical Sciences Hospital, India

PS-02-a-267 Development of Healthy Food Products for Thai Elderly with Metabolic Syndrome
Nednapis Vatanasuchart, Siriporn Tanjor, Pisut Butsuwan, Wassana Narasri, Yathippawi Pakkaew
Kasetsart University, Thailand

PS-02-a-268 Higher serum zinc level decreased the risk of cognitive decline in elderly Japanese women
Mariko Nakamoto1, Rei Otsuka1, Yuki Kato1, Yukiko Nishita1, Chikako Tange1, Makiko Tomida1,2, Fujiko Ando1,3, Hiroshi Shimokata1,4
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PS-02-a-269 Improving the meal quality at nursing homes based on analysis of food texture of a soft diet
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PS-02-a-270 Dietary and plasma magnesium in conjunction with dietary quality reduce risk of all-cause mortality in Taiwanese older adults
Yi-Chen Huang1, Meei-Shyuan Lee1,2,3, Mark L. Wahlqvist2,3
1National Defense Medical Center, Taiwan, 2National Health Research Institutes, Taiwan, 3Monash University, Australia

PS-02-a-271 Photo-aging of Skin and Consumption of Coffee and Polyphenol in Healthy Japanese Females
Yoichi Fukushima1, Yoshinari Takahashii, Yoshimi Kishimoto3, Chie Taguchi2, Norie Suzuki-Sugihara3, Mihoko Yokoyama4, Kazuo Kondo3
1Nestlé Japan Ltd., Japan, 2TES Holdings Ltd., 3Ochanomizu University, Japan, 4Yokoyama Skin Clinic, Japan

PS-02-a-272 Diagnostic value of leg muscle strength measurement for sarcopenia in the elderly
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1Kyoto Women's University, Japan, 2Elderly Nursing Home Life-In Kyoto, Japan

PS-02-a-273 Associated with neuropsychiatric functions and erythrocyte membrane fatty acid composition of the elderly: Shimane COHRE Study
Masanori Katakura, Michio Hashimoto, Yoko Tanabe, Yamaguchi Shuhei, Toru Nibaka, Kuninori Shiwaku, Osamu Shido
Shimane University, Japan

PS-02-a-274 A systematic literature review of the relationship between the intake of soy products and cognitive function
Atsushi Ogihara1, Eri Maeda1, Takahiro Iwagaki1, Taeko Shimoda2,3
1Waseda University, Japan, 2Tokyo Healthcare University, Japan, 3Tenshi College, Japan

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PS-02-a-275 Assessment of community nutrition activities in Vietnam
Kumiko Takahashi1, Quyen Dao To2
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PS-02-a-277 Caring behaviours and beliefs about complementary feeding among mother in the indigenous communities of Kajang Ammatoa : a qualitative study
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Program

PS-02-a-278  Effective Role of Breastfeeding Support Group in Batara Village, Pangkep District, Indonesia 2011-2013
Muhammad Nur Hasan Syah¹, Said Zainuddin²
¹Hasanuddin University, Indonesia, ²Health Department Pangkep Regency

PS-02-a-279  Provision of a fish chutney among women in rural Bangladesh to increase intake of an animal-source food for improved nutrition
Manika Saha, Jessica Rose Bogard, Anne-Louise Hether, Shahin Emtazur Rahman, Tiezul Islam, Shakuntala Haraksingh Thilsted
WorldFish, Bangladesh

PS-02-a-280  Reanalysis Internship Result Nutritional Student of School of Public Health Hasanuddin University, 2014
Muh. Iffah Nurhikmah Dedikasih, Abdul Razak Thaha, Djunaidi M. Dachlan
Hasanuddin University, Indonesia

PS-02-a-281  Factors of Food Choice and Food Variety among Public Institutions of Higher Education Students in Selangor, Malaysia
Tatiana Suhaimi, Norhasmah Sulaiman
Universiti Putra Malaysia, Malaysia.

PS-02-a-282  Empowering and Mobilizing the Youth for Nutrition and Health: The VYLH-Philippines Experience
Ryan John P. Pascual¹,²,³, Christian Emmanuel Enriquez³,¹,³, Christine Querubin¹,²,³, John Paul Oira¹,⁵, Maria Christina Gurro¹,⁵, Florencio Dizon¹,³, Maria Melanie Alcausin¹,³,²,³, April Dion Berboso¹,²,³, Barbra Charina Cavan¹,³, J Edgar Posecion¹,²,³, Conchita Abarquez¹,³,²,³, Mertyn Mendirollo¹,²,³, Harashima Emiko¹,²,³, Yasue Nakagawa²
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PS-02-a-283  Development and formative evaluation of programs to promote elderly participation in community activities
Harashima Emiko¹, Yasue Nakagawa²
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PS-02-a-284  Cooperative Promotion of Food and Nutrition for the Elderly at a Community Level
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¹Mahidol University, Thailand, ²Don Faek Health Promotion Hospital, Thailand, ³Don Faek Elderly Club, Thailand

PS-02-a-285  Evaluation of a collaborative intervention with a community restaurant to promote healthy dietary habits among elderly people
Kayo Shintaku¹, Naomi Chisuwa², Toshi Haruki²
¹Koshien Junior College, Japan, ²Osaka City University, Japan

PS-02-a-286  The effect of well-presented texture-modified diet (Happy Meal) on nutrition status and food enjoyment of dysphagic elderly
Wong Cora¹, So Wilson², Timothy Kwok¹,²
¹St. James' Settlement, Hong Kong, ²The Chinese University of Hong Kong, Hong Kong

PS-02-a-287  A Community-based Diabetes Prevention and Management for Patients by Community Health Care Workers in Chiang Mai Province in Thailand
Supim Chanthong, Nantiya Kartui, Sumittra Chaising, Roongaroon Bunnakum, Thanyarat Gantiya, Pikulthong Khongthaworn, Pakchira Kumkiw, Rattanawan Sorachittiyotin, Yanatat Pothaya, Pongladma Na Chiangmai, Suparut Boontapan
Ministry of Public Health, Thailand

PS-02-a-288  Nutrition Service in Community Clinic in Bangladesh: An overview of Community Health Service Providers (CHCPs)
Mohammad Kamruzzaman
University of South Asia, Bangladesh
Program

PS-02-a-289 Develop culturally healthy recipes to prevent chronic disease in Chiang Mai province, Thailand
Chadarat Kueasuk, Supranee Foosuwan
Ministry of Public Health, Thailand

PS-02-a-290 Residence district affecting cooking environment and skills in Japanese students affiliated with training institutes of national registered dietitians
Yuka Kawada
Shukutoku University, Japan

PS-02-a-291 The present conditions regarding and role of school meals displayed on the Internet
Kyoko Morimoto¹, Ikue Soga¹, Kimiko Miyahara²
¹Mimasaka University, Japan, ²Shukutoku University, Japan

PS-02-a-292 Supper preferences of first-year university students
Yoshimi Hayashi
Sonoda Women's University, Japan

PS-02-a-293 Changes in glucosinolate content during cutting and storage of Brassica vegetables under controlled conditions of temperature and humidity
Sanee Osada, Yasuo Aoyagi
Kagawa Nutrition University, Japan

PS-02-a-294 Co-creating Nutrition Services through Community Managed Nutrition cum Daycare Centers - Fulwari Program from Chhattisgarh state of India
Samir Garg
State Health Resource Center, India

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PS-02-a-295 Household food insecurity is seasonally associated with undernutrition among women and mediated by dietary diversity in Bangladesh
Jillian L. Waid¹, Md. Mehezi Hasan¹, project team FSNSP¹²
¹Helen Keller International, Bangladesh, ²BRAC University, Bangladesh

PS-02-a-296 From Asking to Coding: The association between gender of enumerators and report of household food insecurity measures in Bangladesh
Suvaldrta Datta Gupta¹, Jillian L. Waid¹, Project Team FSNSP¹²
¹Helen Keller International, Bangladesh, ²BRAC University, Bangladesh

PS-02-a-297 Multi Sectoral Approach to Accelerating the Reduction of Under Nutrition in Sri Lanka
Visakha Tilekeratne, Renuka Jayatissa, Deepika Artigalla, Shanthi Gunawardana, Thilina Wijesingha, Sunil Adikarai
Ministry of Health, Sri Lanka

PS-02-a-298 Dietary Diversity Score among Adolescent in Three Different Ethnic in Indonesia
Lilik Kustiyah, Cesilia Meti Dwiariani, Yoesniarsani Dwi Meisy
Bogor Agricultural University, Indonesia

PS-02-a-299 Comparative Studies of Thermal Degradation in Different Seed Oils using ATR-FTIR
Muhammad Hamid Raza, Tajamal Hussain, Adnan Mujahid, Saba Nazir
University of the Punjab, Pakistan

PS-02-a-300 The socio-economic and geographic contributors to food insecurity in a rural community
Quynh Le¹, Stuart Auckland¹, Hoang B. Nguyen¹, Sandra Murray¹, Gretchen Long²
¹University of Tasmania, Australia, ²Department of Health and Human Services

PS-02-a-301 Structural associations among five-year subjective health, dietary quality, equivalent income, and emotional well-being in Japanese middle-aged urban dwellers
Sayuri Kodama¹, Nobuya Fujii², Fumie Okada³, Tadashi Furuhata³, Naoko Sakurai³, Tanji Hoshi³
¹Wayo Women's University, Japan, ²Tokyo Metropolitan University, Japan, ³Tokio University, Japan, ⁴The Jikei University, Japan

PS-02-a-302 Nationwide nutrition survey for aged persons in Japan - Nutritional status and meal environmental research by direct questioning method -
Fumie Okada¹, Takehiko Kaneko², Sayuri Kodama³, Akiko Koike¹, Masayuki Goto², Tadashi Furuhata²
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Program

PS-02-a-303 Retrospective analysis between food intake and plasma lipid levels in middle to elderly age of 23906 Japanese
Kohzo Aisaka, Aki Aisaka, Hideyo Onikura, Fujiko Tsuchiya, Masami Sueta, Yumiko Ikezuki, Kana Itabashi, Sayaka Nose, Seiichiro Obata
Hamada Hospital, Japan

PS-02-a-304 The relationship between self-reported energy intakes and body mass index among urban, low-income African-American youth
Miwa Yamauchi1, Anna Y. Kharmats2, Cara Shiple2, Elizabeth S. Anderson2, Laura C. Hopkins2, Joel Gittelsohn2
1The University of Tokushima, Japan, 2Johns Hopkins Bloomberg School of Public Health, USA

PS-02-a-305 Children Receiving Complementary Food Supplements (CFS) Have Higher Nutrient Intakes from Home Foods in Jivita-4 Field Trial, Rural Bangladesh
Rebecca K. Campbell1, Kristen M. Hurley1, Abu Ahmed Shamim1, Sajjuddin Shaikh1, Zaynah T. Chowdhury1, Sucheta Mehra1, Saskia de Pee2, Tahmeed Ahmed2, Keith P. West Jr.1, Parul Christian1
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3Nutrition Programme, ICCRR, B, Bangladesh

PS-02-a-306 Comparison of Nutritional Status of Early Childhood between South Korea and North Korea
Soh Yoon Yun, Cheng Yu Zhang, Seo-Ho Cho, Jihyun Yoon
Seoul National University, Korea

PS-02-a-307 Improvement in the nutritional value of food stockpiles and their efficient reuse
Mizuho Sato, Masaru Nakano
Keio University, Japan

PS-02-a-308 Approach to hand down the tradition of local dishes at 3.11 stricken area
Kazuko Kato, Chisa Ikeda, Ryoko Wada
Tokyo Kasei University, Japan

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PS-02-p-001 Insulin-induced acetyl-CoA carboxylase alpha is responsible for triglyceride accumulation in primary hepatocytes of low protein diet-fed rats
Yusuke Taguchi1, Yuka Toyoshima1, Reiko Tokita1, Hisanori Kato2, Shin-Ichiyo Takahashi2, Shiro Minami1
1Nippon Medical School, Japan, 2The University of Tokyo, Japan

PS-02-p-002 Effect of taurine on the induction of TNF-α expression in human intestinal epithelial Caco-2 cells
Hideo Satsu1, Hana Shimakata2, Yusuke Gondo2, Kenji Wata1, Mamoru Totsuka2, Makoto Shimizu2
1Maebashi Institute of Technology, Japan, 2The University of Tokyo, Japan

PS-02-p-003 Protein malnutrition increases the amount and phosphorylation of 4E-binding protein 1 (4E-BP1) to accumulate lipid in rat liver
Yuka Toyoshima1, Reiko Tokita1, Yusuke Taguchi1, Fumitaka Yoshizawa2, Shin-Ichiyo Takahashi2, Hisanori Kato3, Shiro Minami1
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PS-02-p-004 Collagen-derived dipeptides were detected in human breast milk
Sachie Nakatanai1, Rina Kasai1, Yoshifumi Kimira1, Hiroshi Mano1, Aya Kataoka2, Fumito Sugiha2, Naoki Inoue2, Kenji Kobata1, Masahiro Wada1
1Josai University, Japan, 2Nitta Gelatin Inc., Japan

PS-02-p-005 Adaptive Response to L-Serine Deficiency in Normal Embryonic Fibroblasts
Tomoko Sayano1, Yuki Kawano2, Kayoko Esaki1, Yoshio Hiramatsu1, Shigeki Furuya2
1RIKEN Brain Science Institute, Japan, 2Kyushu University, Japan

PS-02-p-006 Effects of dietary histidine levels to amounts of imidazole dipeptides and interactions with lysine and arginine in muscles of broiler
Shinichi Kai, Genya Watanabe, Masatoshi Kubota, Motoni Kadowaki, Shinobu Fujimura
Niigata University, Japan
Program

Tung-Ju Yang, En-Pei Chiang
National Chung Hsing University, Taiwan

PS-02-p-008  Nutritional characteristic of the Hiroshima-oyster cultured in the area of high concentration of zinc
Yumiko Nitta\textsuperscript{1}, Noriko Tamura\textsuperscript{2}, Toshihide Harada\textsuperscript{3}, Fumiko Ishizaki\textsuperscript{4}, Kohsaku Nitta\textsuperscript{5}
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PS-02-p-009  Bone-kidney axis regulating phosphate homeostasis: Study of osteocyte-ablated mice
Haruna Sakaguchi, Sawako Tatsumi, Mao Ogata, Osamu Fujii, Tomohiro Arakaki, Atsumi Miyagawa, Kenta Nagamoto, Wako Takahama, Yukiko Hirobata, Akihiro Yasui, Ichiro Kaneko, Hiroko Segawa, Ken-ichi Miyamoto
The University of Tokushima Graduate School, Japan

PS-02-p-010  Molecular mechanisms underlying folic acid-induced anti-colorectal cancer growth
Chun-Ting Kuo, Wen-Sen Lee
Taipei Medical University, Taiwan

PS-02-p-011  Biotin-deficient diet induces abnormal oocyte in mouse
Ai Tsuji\textsuperscript{1}, Toshinobu Nakamura\textsuperscript{1}, Katsumi Shibata\textsuperscript{2}
\textsuperscript{1}Nagahama Institute of Bio-Science and Technology, Japan, \textsuperscript{2}The University of Shiga Prefecture, Japan

PS-02-p-012  Zinc Status, Physical Growth and Cognitive Development of 2-3-Year Old Children in Laguna, Philippines
Rodesa T. Naupal-Forcadilla
University of the Philippines Los Banos, Philippines

PS-02-p-013  Effect of Dietary Oil and Phosphorus Contents on Calcium Utilization in female Fischer Rats
Yoshiko Aoyama\textsuperscript{1}, Shizuko Ohtsuka\textsuperscript{1}, Nobuhiro Watanabe\textsuperscript{1}, Tomoko Kajiwara\textsuperscript{1}, Shoji Azami\textsuperscript{2}, Takao Kitano\textsuperscript{3}
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PS-02-p-014  Cellobionic acid preserves hepatic iron storage level in adult female rats fed a low iron diet
Eri Fukuda\textsuperscript{1}, Yukiko Kobayashi\textsuperscript{1}, Naoyuki Matsunaga\textsuperscript{1}, Shiori Maeda\textsuperscript{1}, Masashi Kuwahata\textsuperscript{1}, Yoshiya Izumi\textsuperscript{2}, Yasuhiro Kido\textsuperscript{1}
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PS-02-p-015  Effects of dietary phosphoric acid on the progression of anemia in iron deficient rats
Mari Nakao\textsuperscript{1}, Hironori Yamamoto\textsuperscript{2}, Otoki Nakahashi\textsuperscript{1}, Shoko Ikeda\textsuperscript{1}, Kotaro Abe\textsuperscript{1}, Shiori Fukuda\textsuperscript{1}, Yutaka Taketani\textsuperscript{1}, Takeda Eiji\textsuperscript{1}
\textsuperscript{1}Tokushima University, Japan, \textsuperscript{2}Jin-ai University, Japan

PS-02-p-016  Concentration of essential elements in brown and white jasmine rice samples of Thailand
Wannee Srinuttrakul, Arporn Busamongkol
Thailand Institute of Nuclear Technology (Public Organization), Thailand

PS-02-p-017  The effects of vitamin B\textsubscript{6} status on blood lipids in healthy adults
Youn-Ok Cho, Young-Nam Kim, Ji Young Choi
Dukseong Women's University, Korea

PS-02-p-018  Effects of calcium phosphate citrate as a dietary calcium source on calcium balance in rats
Mihoko Hanai\textsuperscript{1}, Tsutomu Yoshida\textsuperscript{1}, Toshitaka Yasuda\textsuperscript{2}
\textsuperscript{1}Kanagawa Institute of Technology, Japan, \textsuperscript{2}Toyo Suisan Kaisha, Ltd., Japan

PS-02-p-019  Soybean extracts increase zinc absorption by enhancing cell surface Zip4 expression
Ayako Hashimoto\textsuperscript{1}, Masakazu Takahashi\textsuperscript{2}, Hiroshi Narita\textsuperscript{1}, Yusaku Miyamae\textsuperscript{1}, Masaya Nagao\textsuperscript{1}, Taiho Kambe\textsuperscript{1}
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PS-02-p-020  Nocturnal eating disturbs phosphorus excretion in young subjects
Masae Sakuma, Saaya Noda, Yuuka Morimoto, Akitsu Suzuki, Kanaho Nishino, Sakiko Ando, Minako Umeda, Makoto Ishikawa, Hidekazu Arai
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Program

PS-02-p-021 Low-dose daily intake of vitamin K2 (menaquinone-7) improves osteocalcin 𝜈-carboxylation
Naoko Inaba, Toshiro Sato, Takatoshi Yamashita
J-Oil Mills, INC., Japan

PS-02-p-022 Effect of Iron Deficiency on Antioxidative System in Rat Duodenum
Shoko Shinoda, Machiko Yamamoto, Yurina Imooka
Tokyo Metropolitan University, Japan

PS-02-p-023 Effects of dietary zinc supplementation on tissue mineral distribution and bone metabolism in rats
Takako Suzuki, Shin-ichi Katsumata, Hiroshi Matsuzaki, Kazuharu Suzuki
Tokyo University of Agriculture, Japan

PS-02-p-024 The inhibitory effect of carbonyl iron load on vitamin E metabolism in rats
Yuki Kanzaki, Chie Muto, Haruka Watabe, Osamu Igarasi, Chikako Kiyose
Kanagawa Institute of Technology, Japan

PS-02-p-025 Induction of intact and C-terminal FGF23 levels and its gene expression in lipopolysaccharide-induced acute inflammation
Hironori Yamamoto¹, Shoko Ikeda², Mari Nakao², Yutaka Taketani², Eiji Takeda²
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PS-02-p-026 Effects of menaquinone-4 and geranylgeraniol on testosterone production in testis-derived tumor I-10 cells
Hsin-Jung Ho, Hitoshi Shirakawa, Risa Yoshida, Misato Maeda, Tomoko Goto, Michio Komai
Tohoku University, Japan

PS-02-p-027 Role of a TPA-responsive element in BMP-mediated hepcidin transcription
Yohei Kanamori¹, Masaru Murakami², Tohru Matsui¹, Masayuki Funaba¹
¹Kyoto University, Japan, ²Azabu University, Japan

PS-02-p-028 Determination and Characterization of Vitamin B₁₂ Compounds in Food Ingredients used in Chinese Cuisine
Fei Teng¹, Shigeo Takenaka², Yukinori Yabuta¹, Fumio Watanabe¹
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PS-02-p-029 Dietary supplemental vitamin B6 to a low vitamin B6 diet modulates gene expression of myokines in skeletal muscle of rats
Shinji Uragami, Sofya Suidasari, Noriyuki Yanaka, Norihisa Kato
Hiroshima University, Japan

PS-02-p-030 Effects of zinc deficiency on locomotive activity and plasma melatonin concentrations in growing rats
Tomoko Goto, Yuka Onuma, Yuki Mayanagi, Masahiro Sumitomo, Hitoshi Shirakawa, Michio Komai
Tohoku University, Japan

PS-02-p-031 The excess intake of vitamin A increases energy expenditure, and decreases fat mass of high-fat diet induced-obese mice
Noriaki Yamaguchi, Eri Abe, Kazuhiro Suruga
University of Nagasaki Siebold, Japan

PS-02-p-032 Effect of High-Fat Diet on Behavior of Ascorbic Acid in C57BL6/J Mice
Minami Murai¹, Yoko Sato¹, Yasuko Sone², Ayumi Isaka¹, Chisa Nishimura¹, Mayuko Kogure¹, Noriko Miyake², Emiko Suzuki²
¹Ochanomizu University, Japan, ²Tokachi University of Health and Welfare, Japan

PS-02-p-033 The role of zinc supplementation in IL-17- induced primary airway smooth muscle cells inflammation
Ai-Jhen Lee, Wei-Syuan Huang, Ya-ling Chiou
Hunghuang University, Taiwan

PS-02-p-034 Iron deficiency regulates oxidative stress via inducing anti-oxidant enzymes and activating autophagy
Hirofumi Inoue¹², Nobuaki Hanawa¹², Nobuyuki Takahashi¹², Mariko Uehara¹²
¹Laboratory of Physiology and Metabolism, ²Tokyo University of Agriculture, Japan
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PS-02-p-035 The mechanisms of oligo Fucoidan inhibited abnormal growth of airway smooth muscle cells
Chiung-Fang Tsao, Ai-Jhen Lee, Ya-Ling Chiou
Hukkguang University, Taiwan

PS-02-p-036 Synergistic inhibition of cancer cell growth by a combination of delta-tocotrienol and ferulic acid
Takahiro Eitsuka¹, Naoto Tatewaki¹, Hiroshi Nishida¹, Kiyotaka Nakagawa², Teruo Miyazawa²
¹Niigata University of Pharmacy and Applied Life Sciences, Japan, ²Tohoku University, Japan

PS-02-p-037 Food-deprivation synchronizes cyclic feeding of zinc-deficient rats
Anna Arita, Haruka Tatehana, Yume Hatakeyama, Mami Horita, Yuko Yamazaki, Fumio Shimura
Jumonji University, Japan

PS-02-p-038 Influence of deficient zinc intake on preference for high- and low-fat diets in rats
Ayako Daizo, Noriko Komatzuki, Hitomi Suzuki, Natumi Kanari, Yumiko Kikuchi
Seitoku University, Japan

PS-02-p-039 Effect of vitamin E deficiency on hypothalamic-pituitary-adrenal axis in rats
Shun Endo, Mikiko Nakama, Yuki Terada, Asako Takenaka
Meiji University, Japan

PS-02-p-040 Effect of short-term fasting on biomarkers and status of Vitamin C in Mice
Yoko Sato¹, Emiko Suzuki¹, Minami Murai¹, Yasuko Sone², Noriko Miyake³
¹Ochanomizu University, Japan, ²Takasaki University of Health and Welfare, Japan, ³Tokyo Kasei Gakuin University, Japan

PS-02-p-041 The forms of vitamin B₁₂ in some seafood
Hiromi Katsura¹, Yukio Doi¹
¹Kyoto Women’s University, Japan, ²Ryukoku University, Japan

PS-02-p-042 Magnesium cancels the extra-calcium-phosphorus-induced cell death of pre-chondrogenic cells
Hiroya Ueda, Sachie Nakatani, Ayumi Kawata, Kenji Kobata, Masahiro Wada
Josai University, Japan

PS-02-p-043 Regulation of alpha-klotho expression by dietary phosphate during growth periods
Shiori Fukuda¹, Hironori Yamamoto², Eiji Takeda¹, Yutaka Taketani¹
¹Tokushima University, Japan, ²Jin-ai University, Japan

PS-02-p-044 Effects of Dietary Protein Quantity and Quality on beta-Carotene and Vitamin A Metabolism-related Enzymes Gene expressions in rat
Takehiko Terashima, Nahar K. Akter, Masanori Shimizu, Sachiko Takase
Tokoha University, Japan

PS-02-p-045 Analysis of abnormal phosphorus metabolism in fasting status
Sarasa Tanaka, Hiromi Kawamura, Rie Fujii, Mayu Nakagawa, Motoyoshi Sakaue, Mikiko Ito
University of Hyogo, Japan

PS-02-p-046 Beta-cryptoxanthin acts as vitamin A
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PS-02-p-047 Disruption of intestinal alkaline phosphatase (Akp3) affects the phosphate homeostasis
Shihoko Yuki, Hiroko Segawa, Shohei Sasaki, Kayo Ikuta, Ichiro Kaneko, Toru Fujii, Ai Hanazaki, Shiori Nishiguchi, Kei-jiro Notsu, Yuji Shiozaki, Sawako Tatsumi, Ken-ichi Miyamoto
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PS-02-p-048 Effects Of Dietary Protein On Gene Expressions Of Enzymes Related To beta-Carotene Metabolism In Vitamin A Deficient Rats
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PS-02-p-049 The effect of high phosphorus intake in rat lipid metabolism
Yukiko Imi, Yutaka Taketani, Maerjanganh Abduli, Norie Yabiki, Hirokazu Ominami, Yuri Taniguchi, Eiji Takeda
Tokushima University, Japan
PS-02-p-050 Tocotorienol improves the glucose tolerance in obese mice induced by high fat feeding
Haruka Sato1, Yuki Kawamura1, Shiho Tomino1, Mariko Sonoda1, Ikuyo Ichii, Yasuko Sone2, Tomoko Ishikawaille, Yoko Fujiwara1
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PS-02-p-051 Long-term effects of vitamin beverage on vitamin and Hcy levels in patients with coronary atherosclerosis
Kayo Yamamoto, Michiyoshi Sasagawa, Akihiko Nakagawa, Kouji Kajinami
Kanazawa Medical University Hospital, Japan

PS-02-p-052 Fortified Milk Consumption Among 6-Year Old Children: Changes In Biochemical Markers of Trace Minerals And Vitamins
Amster P.P. Baquiran, Trinidad P. Trinidad, Aida C. Malilillin, Rosario S. Sagum, Marco P. De Leon, Melissa S. Borlagdan
Food and Nutrition Research Institute, Philippines

PS-02-p-053 Increased Calcium Absorption from Synthetic Stable Amorphous Calcium Carbonate
Nachum Vaisman1,2, Galit Shaltiel3, Michal Daniele7, Oren E. Meiron5, Assaf Shechter3, Steven A. Abrams4, Eva Niv1, Yami Shapira1, Amir Sagi5
1Tel Aviv Sourasky Medical Center, Israel, 2Tel Aviv University, Israel, 3Amorphical Company, Israel, 4Baylor College of Medicine and Texas Children’s Hospital, USA, 5Ben-Gurion University of the Negev, Israel

PS-02-p-054 Effects of a combination of yogurt and galactooligosaccharides on phosphorus metabolism and bone strength in rats with hypochlorhydria
Satoshi Takasugi, Miho Akutsu, Masami Kitade, Masashi Nagata, Taketo Yamaji
Meiji Co., Ltd., Japan

PS-02-p-055 Dietary intakes of pantothenic acid and biotin of Korean adults
Ji Young Choi, Young Nam Kim, Keum Jee Kang, Youn-Ok Cho
Duksum Women's University, Korea

PS-02-p-056 Oral administration of high-dose vitamin C does not affect health-promoting effects of endurance training in normal and type-2 diabetic rats
Jun Takebayashi, Michiko Kato, Teruki Matsumoto, Yoshiko Ishimi
National Institute of Health and Nutrition, Japan

PS-02-p-057 Vitamin D Deficiency Induces Mild Oxidative Stress In Rat Muscle And Treatment With 1,25(OH)2D3 Can Reverse Oxidative Stress Related Changes
Mehrja Uddin Bhat, Ayesha Ismail
National Institute of Nutrition, India

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PS-02-p-058 The regulatory effects of isoliquiritigenin on disease-related cytokines from peripheral blood mononuclear cells of SLE
Yong-Han Hong1, Shih-Wei Wang2, Yu-Chun Tsai2
1I-Shou University, Taiwan, 2E-DA Hospital, Taiwan

PS-02-p-059 Reduced sucrose preferences in pregnant and lactating mice
Keisuke Tsuzuki, Setsuko Inoue
Bunkyo University, Japan

PS-02-p-060 Ingestion of restricted comfortable food improves social avoidance induced by social defeat stress
Airi Otsuka, Tetsuya Shiuchi, Sachiko Chikahisa, Junji Terao, Hiroyoshi Sei
The University of Tokushima, Japan

PS-02-p-061 Mechanism of enhancement of umami intensity by volatile fraction of kelp soup stock and IMP in brain
Miki Tokunaga1, Kaori Azeno1, Masami Niwa2, Kin-ya Kubo1, Yoshiyuki Hirano1, Junzou Mizuno1, Minoru Onozukaa, Toru Takahashii
1Fukuoka Women's University, Japan, 2Ibi Kosei Hospital, Japan, 3Seijoh University, Japan, 4Chiba University, Japan, 5Kanagawa Dental College, Japan
Program

PS-02-p-062 Associations between physical activity and sedentary behaviour with cognitive function among healthy adolescents in Kuala Lumpur, Malaysia
Kar Hau Chong, Norimah A. Karim, Ponnusamy Subramaniam, Bee Koon Poh
Universiti Kebangsaan Malaysia, Malaysia

PS-02-p-063 Green Tea By Product Extract Improves the Cognitive Function in an Animal Model of Alzheimer’s Disease
Watcharapon Preadapirom1, Rattiya Sombutthaweekul2, Nuntavan Bunyapraphatsara3, Niwat Taepavarapruk4, Pornnarin Taepavarapruk1
1Naresuan University, Thailand, 2Rangsit University, Thailand, 3Mahidol University, Thailand

PS-02-p-064 Norms for Developmental Milestone and Executive Function in South Indian children aged 2-5 years and association with anthropometric measures
Sumithra Selvam1, Tinku Thomas1, Priya Shetty1, Vijaya Raman1, Deepti Khanna2, Ruchika Mehravar3, Anura Kurbad1, Srinivasan K1
1St. John’s National Academy of Health Sciences, India, 2GlaxoSmithKline (GSK) Consumer Healthcare Ltd, India

PS-02-p-065 Individual response of the autonomic nervous system to the green odor of young barley grass extract
Yasuyuki Aotsuka1, Yoshimitsu Okita2, Momoe Ukeguchi1, Isao Takahashi2, Motohiko Kimura2, Toshifumi Sugiura1, Harunobu Nakamura1
1JPD Co., Ltd., Japan, 2Shizuoka University, Japan

PS-02-p-066 Brain-specific Phgdh deficient mice exhibit decrease in serine enantiomers and sexually dimorphic behavioral alterations
Haruka Imai1, Tadashi Ogo1, Takashi Ichinose1, Akane Nakahata1, Yasuhiro Shimizu1, Yutaka Kawarabayashi1, Keizo Takao2, Tsuyoshi Miyakawa1, Yoshihito Hirabayashi1, Shigeki Furuya1
1Kyushu University, Japan, 2National Institute for Physiological Sciences, Japan

PS-02-p-067 Effect of sphingomyelin-containing milk phospholipids concentrate feeding on learning and memory behavior in rats
Mako Enokida1, Nozomi Kawai1, Takafumi Sato1, Asumi Shimosato1, Satoshi Higurashi2, Yuko Haruta2, Takashi Yamada1, Hidehiko Yokogoshi1
1Chubu University, Japan, 2Megmilk Snow Brand Co. Ltd., Japan

PS-02-p-068 Nutritional and Psychological Factors Associated with Cognitive Ability among 12 to 13 Year-Old Malay Adolescents in Selangor, Malaysia
Nurliyana Abdul Razak, Mohd Nasir Mohd Taib, Zalilah Mohd Shariff, Rohani Abdullah
Universiti Putra Malaysia, Malaysia

PS-02-p-069 Psychostimulant vs. Motor Effects of VIA Instant Coffee
Alixandra H Fidler, Jesse White, Allison Feucht, Derek Hosier, Amanda Wise, Sean Mohney, Lonnie Lowery
University of Mount Union, USA

PS-02-p-070 Effects of Akamegashiwa (Japanese Mallotus) on Memory in Mice
Kayoko Uezu1, Mika Honda1, Shihumi Fukuda1, Yuka Hoshiko1, Nagisa Hayashida1, Eiko Uezu2
1Kwassui Women's University, Japan, 2University of the Ryukyus, Japan

PS-02-p-071 Consecutive feeding of prebiotics delays onset of learning and memory disorder and symptoms in senescence-accelerated model mice (SAM) P8
Sadako Nakamura1, Kenichi Tanabe2, Tsuneyuki Oki1
1Jumonji University, Japan, 2University of Nagasaki, Japan

PS-02-p-072 Effects of coffee intake on energy and lipid metabolism and locomotor activity of aged mice
Keita Takahashi1,2, Kentaro Shimokado2, Akihito Ishigami1
1Tokyo Metropolitan Institute of Gerontology, Japan, 2Tokyo Medical and Dental University, Japan

PS-02-p-073 Development of a reporter assay system to screen for phytochemicals mimicking the anti-aging effects of calorie restriction
Chiba Takuya1, Ohata Yoshihisa1, Wang Zi1, Nishizono Shoko2, Shimokawa Isao3
1Waseda University, Japan, 2Sojo University, Japan, 3Nagasaki University, Japan

PS-02-p-074 Neuroprotection effect of rice extracts on hydrogen peroxide-induced cytotoxicity in PC12 cells
Suvaraporn Sae-lim, Pimolvam Senavong
Thammasat University, Thailand
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PS-02-p-075 Mutagenicity of polyunsaturated fatty acid peroxidation products in the standard Ames assay
Petr Gruz1, Masatomi Shimizu1,2, Akemi Hosoda2, Akiko Kojo2, Yukio Usui2, Kei-ichi Sugiyama1, Masamitsu Honma1
1National Institute of Health Sciences, Japan, 2Tokyo Healthcare University, Japan

PS-02-p-076 Chronological accumulation of elongation factor and the intensified autofluorescence by the advanced glycation in the nematode Caenorhabditis elegans
Tomomi Komura1,2, Mikihiro Yamanaka1, Keita Harai1, Yumiko Nakatani2, Maiko Kato2, Yuya Hinode2, Eriko Kage-Nakadai2, Yoshikazu Nishikawa2
1SHARP Corporation, Japan, 2Osaka City University, Japan

PS-02-p-077 The effect of high-fat diet intake with aging on lipid absorption ability
Kazushi Yamamoto, Tsuyoshi Tsuduki
Tohoku University, Japan

PS-02-p-078 Comparison of the health benefits of different eras of Japanese foods in mice
Tsuyoshi Tsuduki1, Shuang E1, Kazushi Yamamoto1, Yu Hatakeyama1, Yu Sakamoto1, Yuri Jibu2, Yuki Kawakami2
1Tohoku University, Japan, 2Okayama Prefectural University, Japan

PS-02-p-079 Analysis of the chemical composition of the cortical tibial bone using ovariectomized rats
Yuichi Noma, Umon Agata, Yuki Aikawa, Shoyo Kato, Naomi Omi
University of Tsukuba, Japan

PS-02-p-080 Carnosic acid mediates neuroprotection through upregulation of optic atrophy 1 in SH-SY5Y neuronal cells
Chia-Wen Tsai, Wen-Jiun Chen
China Medical University, Taiwan

PS-02-p-081 Effect of Dietary Rare Sugar D-Psicose on Life Span in Rats Fed a High-fat Diet
Shunsuke Higaki1, Tatsuhiro Matsuo2
1Ehime University, Japan, 2Kagawa University, Japan

PS-02-p-082 Exercise, dietary habits, and physical strength in Japanese women participating in a health promotion program for the elderly
Yukari Jono1, Fuku Matsumoto1, Yuri Kanesada1, Chiaki Yamashita1, Kayoko Yamazaki1, Mikio Naka02, Naoko Komenami1
1Kyoto Women’s University, Japan, 2Osaka University of Economics, Japan

PS-02-p-083 Small intestinal functions decline with aging in senescence-accelerated mice
Kai Aoki, Kotomi Shimokobe, Shoko Omiya, Takuji Suzuki
Yamagata University, Japan

PS-02-p-084 The effect of daily oral function training in the elderly who participate in long-term strength training program for preventive care
Naomi Hirano1, Hiromi Yamashita2, Noriko Tanaka2, Aya Kaizaki2, Rie Shimonaka2, Mitsuru Nakamura4
1Kobe Women’s Junior College, Japan, 2Kobe Women’s University, Japan, 3Ritsumeikan Global Innovation Research Organization, Japan, 4Meiji School of Oriental Medicine, Japan

PS-02-p-085 Result of Taste and Olfactometry -Yakumo-cho Inhabitants medical examination-
Naomi Katayama
Nagoya Women’s University, Japan

PS-02-p-086 Effects of dietary (-)-epigallocatechin-3-gallate (EGCG) supplementation on mitochondrial biogenesis in muscle of senescence-accelerated mouse
Hung-Wen Liu1, Yin-Ching Chan2, Ming-Fu Wang3, Sue-Joan Chang1
1National Cheng Kung University, Taiwan, 2Providence University, Taiwan

PS-02-p-087 EGCG supplementation attenuates age-related fatty liver in Senescence-accelerated mouse (SAM) prone 8 (SAMP8)
Chu-Chun Wei1, Hung-Wen Liu1, Yin-Ching Chan2, Ming-Fu Wang3, Sue-Joan Chang1
1National Cheng Kung University, Taiwan, 2Providence University, Taiwan

PS-02-p-088 Home health care of a Japanese woman in her 90s who is fed with gastrostoma tubes
Amino Nakamashi1, Kayoko Uezu2, Yurina Kayou1, Ai Takama1, Eiko Uezu1
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PS-02-p-089  
Cognitive performance in relation to nutrient adequacy, anthropometric indicators and socio-demographics in Thai school-aged children  
Kusol - Sonthornmdhada1, Nipa - Rojrungwasinkul1, Wanphen - Wimonpeerapattana1, Kamolchanok - Khumsawan1, Atitada - Boonpraderm1, Ilse - Khouw2  
1Mahidol University, Thailand, 2Friesland Campina Development Centre AMEA, Singapore

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Curcumin may exhibit physiological functions via proteo-stress  
Akira Murakami, Eri Nakahata, Cindy Valentine, Kohta Ohnishi, Kazuhiro Irie  
Kyoto University, Japan

PS-02-p-091  
Effects of Aronia Extract and its Components on Skeletal Muscle  
Yoshihisa Nakano1,2, Masahiro Ogawa1, Misa Ogushi1, Tomoya Kitakaze1, Takenori Nakagaki1, Maria Yotova1, Margaritka Boncheva1, Tanya Tarnovska2, Hiroshi Inui3  
1Osaka Prefecture University, Japan, 2Osaka Woman Junior College, Japan, 3Nakagaki Consulting Engineer & Co., Ltd, Japan, 4Medical University-Varna, Bulgaria, 5Medical University-Plovdiv, Bulgaria

PS-02-p-092  
Anti-atherosclerotic effect of Ursolic acid and derivatives by the expression of cell adhesion molecules induced by TNF- alpha  
Mika Mochizuki1, Taichi Uozumi1, Shinsuke Hisaka2, Toshihiko Osawa3  
1Nagoya University, Japan, 2Meijo University, Japan, 3Aichi Gakuin University, Japan

PS-02-p-093  
evaluation of aqueous extract of Psidium guajava L. budding leaves on improvement of symptoms in STZ-induced SD rats  
Shu Ming Huang  
National Chung Hsing University, Taiwan

PS-02-p-094  
Flaxseed lignan decreased histone deacetylase and methyl-CpG-binding domain protein gene expression in murine adipocytes  
Yeong Rhee  
North Dakota State University, USA

PS-02-p-095  
Piceatannol and its metabolites up-regulate SIRT1 and autophagy-related gene expression in THP-1 human monocytic cell line  
Shinpei Kawakami, Takayuki Yamamoto, Hiroko Maruki-Uchida, Masahiko Sai, Tatsuhiko Itō  
Morinaga & Co., Ltd., Japan

PS-02-p-096  
Terminalia bellirica extract inhibits LPS-induced inflammatory mediators expression in RAW 264 cells  
Miori Tanaka1, Emi Saia1, Norie Sugihara-Suzuki1, Saori Takenaka1, Tomoyasu Kamiya3, Chie Taguchi1, Yoshimi Kishimoto1, Kazuo Kondo1  
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PS-02-p-097  
Antihypertensive effect of Sargassum horneri (Akamoku) fermented with Lactobacillus plantarum  
Satoshi Shimizu1, Utano Nakamura1, Hiroshi Sansawa2, Hiroshi Nagai1, Naoko Hamada-Sato1  
1The Graduate School of Marine Science and Technology, Course of Safety Management in Food Supply Chain, Japan, 2Nihon Bio Corporation, Japan

PS-02-p-098  
Studies on Japanese traditional seaweed dishes as functional foods  
Masako Toyohara1, Haruhiko Toyohara2, Hisashi Yoshioka1, Akira Kamata4, Takuya Sugahara1  
1Kyoto Kacho University, Japan, 2Kyoto University, Japan, 3Maruha Nichiro Corporation, Japan, 4Maruha Nichiro Corporation, Japan

PS-02-p-099  
Screening of GPR120 activation by various long-chain fatty acids using TGFalpha shedding assay  
Ikumi Morimoto1, Sayoko Yoshii1, Asuka Inoue2, Junken Aoki2, Shigeki Higashiyama3, Morikatsu Yoshida4, Mikiya Miyazato1, Rieko Nakata1, Hiroyasu Inoue1  
1Nara Women's University, Japan, 2Tohoku University, Japan, 3Ehime University, Japan, 4National Cerebral and Cardiovascular Center Research Institute, Japan
Program

PS-02-p-100 Effect of lactoferrin on hypercholesterolemia, 1st report: Preventive effect of lactoferrin on hypercholesterolemia in a diet-induced atherosclerosis model using Microminipigs
Satoru Morishita¹, Hiroki Kawaguchi², Tomojo Ono¹, Naoki Miura¹, Michiaki Murakoshi¹,³, Keikichi Sugiyama¹,ν, Hisanori Kato², Akhide Tanimoto², Hoyoku Nishino¹⁴,¹⁵
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PS-02-p-101 Effect of lactoferrin on hypercholesterolemia, 2nd report: Promotion of fecal cholesterol excretion by lactoferrin through reducing micellar solubility of cholesterol
Kanae Nakamura¹, Asami Aoki¹, Satoru Morishita¹,², Tomojo Ono¹,³, Takayasu Kubozono¹, Michiaki Murakoshi¹,³, Keikichi Sugiyama¹,ν, Hisanori Kato², Ikuo Ikeda², Hoyoku Nishino¹⁴,¹⁵
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PS-02-p-102 Exploration of the potentiated anti-atherosclerotic effect of Lion’s mane mushroom extract (Hericium erinaceus) on EA.hy 926 endothelial cells
Jian-You Pan¹, Jih-Hao Pan¹, Meng-Chang Shieh¹, Hsin-Lin Yang², You-Cheng Hseu², Hebron C Chang¹
¹Asia University, Taiwan, ²China Medical University, Taiwan

PS-02-p-103 Anti-oxidative and anti-inflammatory effects of Aronia melanocarpa extract in vascular endothelial cells
Yuki Kudome, Emi Saita, Norie Sugihara-Suzuki, Fumika Kamijyo, Eri Arai, Chie Taguchi, Yoshimi Kishimoto, Kazuo Kondo
Ochanomizu University, Japan

PS-02-p-104 Effect of Pterocarpus marsupium extract on LDL oxidation and vascular endothelial inflammation
Eri Arai, Emi Saita, Norie Sugihara-Suzuki, Fumika Kamijyo, Yuki Kudome, Chie Taguchi, Yoshimi Kishimoto, Kazuo Kondo
Ochanomizu University, Japan

PS-02-p-105 An evaluation system using mice for ameliorating effect of food components on human chilliness
Daiki Yokoyama¹, Daisuke Kameyama¹,², Kazuhumi Miyoshi¹, Toshiyuki Nakamura¹, Tatsuo Watanabe¹
¹University of Shizuoka, Japan, ²Shioda Foods CO., Ltd., Japan

PS-02-p-106 Hepatoprotective and antioxidant activities of oyster enzymatic hydrolysate and identification of its active compounds
Eun Young Park¹, Marie Hanada¹, Yasushi Nakamura², Kenji Sato³
¹Kyoto Prefectural University, Japan, ²Kyoto Prefectural University, Japan, ³Kyoto University, Japan

PS-02-p-107 Kabita Biscuits: Snacks from Sweet Potatoes, Anchovies, Peanuts, Carrots, and Sauropus androgynus for Supporting Growth and Immunity in School-Aged Children
Ajeng Mustika, Agatha So, Rizkya W. Pradini
University of Indonesia, Indonesia

PS-02-p-108 Effects of Lychee Fruit Polyphenol on Lipid Metabolism in HepG2 Cells
Emi Saita¹, Tomoka Fujisawa¹, Norie Suzuki-Sugihara¹, Kentaro Kitadate², Chie Taguchi¹, Yoshimi Kishimoto¹, Kazuo Kondo¹
¹Ochanomizu University, Japan, ²Amino Up Chemical Co., Ltd., Japan

PS-02-p-109 Rice koji extract enhances lipid metabolism through PPAR alpha activation in mouse primary hepatocytes
Hsin-Yi Chi¹, Teruo Kawada¹, Tsuyoshi Goto¹, Hiroyasu Inoue², Rieko Nakata³, Noriyoshi Ichijo², Keiji Nakata¹, Haruya Takahashi¹, Shinsuke Mohri¹, Kosuke Kamakari¹
¹Kyoto University, Japan, ²Marusa Shoji Corporation, Japan, ³Nara Women's University, Japan

PS-02-p-110 Differences in effects of equal enantiomers in vivo and in vitro
Shungo Fuji¹, Hirofumi Inoue¹, Nobuyuki Takahashi¹, Tomomi Ueno², Shigeto Uchiyama², Mariko Uehara¹
¹Tokyo University of Agriculture, Japan, ²Otsuka Pharmaceutical Co., Ltd., Japan

PS-02-p-111 Multi-faceted integrated omics suggested suppressive roles of coriander in cellular methylation in dextran sodium sulphate induced colitic mice
Huijuan Jia¹, Wanping Aw², Manaka Hanate¹, Hisanori Kato¹
¹The University of Tokyo, Japan, ²Keio University, Japan
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PS-02-p-112  Pacific oyster-derived polysaccharides attenuate allergic response in a murine model of food allergy
Tong-Rong Jan
National Taiwan University, Taiwan

PS-02-p-113  The improvement of physical performance by S-allyl-L-cysteine
Yoshiyuki Shirakura, Natsumi Ichimura, Katsuhiko Takayanagi, Katsuyuki Mukai
UNITIKA LTD, Japan

PS-02-p-114  Piceatannol and its metabolites up-regulate UCP1 gene expression in differentiated adipocyte
Takayuki Yamamoto, Hiroko Maruki-Uchida, Shinpei Kawakami, Masahiko Sai, Tatsuhiko Ito
MORINAGA & CO., LTD., Japan

PS-02-p-115  A novel dietary intervention by the supplementation with egg shell membrane powder suppresses Complete Freund's adjuvant-induced arthritis in rats
Hisanori Kato¹, Hujuan Jia¹, Manaka Hanate¹, Wanping Aw², Yukio Hasebe³
¹The University of Tokyo, Japan, ²Keio University, Japan, ³Jumonji University, Japan

PS-02-p-116  Application of hepatic cytochrome P450 (CYP) gene expression as index for safety assessment of herbal supplements
Misaki Kurawaka, Ha Ngoc Bui, Yumi Nemoto, Mizuho Hoashi, Naho Sasaki, Yuko Yamazaki, Fumio Shimura
Jumonji University, Japan

PS-02-p-117  Antioxidant activities in Citrus medica L. varlinetta between fresh and storage
Wanwisa Sankomkai¹, Uthaiwan Suttisunsanee¹, Pimpinun Somsong², Warankanar Srichamnong¹
¹Mahidol University, Thailand, ²Chulalongkorn University, Thailand

PS-02-p-118  The substance contained in soybeans inhibit influenza virus replication
Miwa Iwai¹, Emiko Nagai², Yuri Suzuki², Yuuji Isegawa²
¹Mukogawa Women's University, Japan, ²Osaka Prefecture University, Japan

PS-02-p-119  Inhibition of influenza-virus replication by adlay tea and the extracts of the tea components
Emiko Nagai¹,², Miwa Iwai³, Hiroshi Inui³, Yuuji Isegawa²
¹Osaka Prefecture University, Japan, ²Mukogawa Women's University, Japan

PS-02-p-120  Enterolactone Promotes Glucose Uptake Through GLUT4 Translocation Via AMPK Activation in Muscle Cells and Suppresses Hyperglycemia in T2D Model Mice
Kazumi Yagasaki¹,², Fang Zhou³, Keisuke Furuhashi³, Myoung Jin Son³, Miku Toyozaki³, Yutaka Miura²
¹Utsunomiya University, Japan, ²Tokyo University of Agriculture and Technology, Japan

PS-02-p-121  Environmental chemical-like action of kavakalcones used in anxiolytic herbal supplements
Naho Sasaki¹, Hiroko Hashida¹,², Misaki Takeda¹, Ayako Fujiwara¹, Haruka Miyata¹, Yuko Yamazaki¹, Fumio Shimura¹
¹Jumonji University, Japan, ²Showa Gakuin Junior College, Japan

PS-02-p-122  Induction of heme oxygenase-1 with quercetin reduces obesity-induced hepatic inflammation through macrophage phenotype switching
Chu-Sook Kim, Rina Yu
University of Ulsan, Korea

PS-02-p-123  Collagen from jellyfish stimulates mouse bone marrow-derived dendritic cells
Agus Budiawan Naro Putra¹, Kosuke Nishi¹, Ryusuke Shiraiishi², Mikiharu Doi², Takuya Sugahara¹
¹Ehime University, Japan, ²Maruto Co., Ltd., Japan

PS-02-p-124  The Utilization of Mangosteen (Garcinia Mangostana Linn) Pericarp to Develop Instant Pudding for Cancer Patients
Tiurma Sinaga, Reisi Nurdiani, Marisya Fitriyani
Bogor Agricultural University, Indonesia

PS-02-p-125  Suppressive effect of mango ethanol extract on IgE production
Tomoko Sasaki¹, Michiyoshi Kondo¹, Kosuke Nishi¹, Takeshi Tamamoto², Takuya Sugahara¹
¹Ehime University, Japan, ²Okinawa Miyako-ichiba, Japan

PS-02-p-126  Phenolic content of finger millet (Elucine coracana) porridges subjected to different processing methods and their antioxidant activities
Disna K D Kumari, Anoma G Chandrasekara, Indraneela Senanayake
Wayamba University of Sri Lanka, Sri Lanka
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**PS-02-p-127** Comparison of anti-diabetic effects of green rooibos extract and aspalathin using cell cultures  
Yutaka Miura, Yumiko Shimizu, Remi Kamakura, Myoung Jin Son, Kazumi Yagasaki  
*Tokyo University of Agriculture and Technology, Japan*

**PS-02-p-128** Inhibition of alpha-glucosidase activity and glucose absorption by lignosulfonic acid  
Yasushi Hasegawa, Satoshi Kawaminami, Yukiya Kadota  
*Muroran Institute of Technology, Japan*

**PS-02-p-129** Effects of beta-glucan content and barley pearling process on the parameters related to metabolic syndrome in diet-induced obese mice  
Seichiho Aoe¹, Yasunori Ichinose², Noriko Kohyama², Kozo Komae², Asuka Takahashi², Toji Yoshioka², Takashi Yanagisawa²  
¹Otsuma Women's University, Japan, ²National Agriculture and Food Research Organization, Japan

**PS-02-p-130** Mangosteen (Garcinia mangostana L.) extract inhibit the formation of AGEs in vitro and in vivo  
Hikari Sugawa¹, Rei-ichi Ohno¹, Kazuhiro Maejima², Musashi Saigusa², Mikihiro Yamanaka¹, Mime Nagai¹, Morio Yoshimura¹, Yoshiaki Amakura², Ryoji Nagai¹  
¹Tokai University, Japan, ²Nippon Shinyaku Co., LTD, Japan

**PS-02-p-131** Effects of newly developed sweeteners containing D-allulose and other rare sugars on body fat accumulation in rats  
Kohei Misaki¹, Takako Yamada², Pushpa K. Gullapalli², Kazuhiro Okuma², Tatsuhiro Matsuo¹  
¹Kagawa University, Japan, ²Matsutani Chemical Industry Co., Ltd., Japan

**PS-02-p-132** Ecklonia cava ameliorates hyperglycemia and insulin resistance in C57BL/KsJ-db/db mice  
Seung-Hong Lee, Sun Hee Cheong  
*Konkuk University, Korea*

**PS-02-p-133** The fruit of Acanthopanax Senticosus Harms improved the lipid metabolism in high-fat fed mice  
Tetsuo Saito, Miyako Nishida, Masafumi Saito, Takahiro Eitsuka, Hiroshi Nishida  
*Niigata University of Pharmacy and Applied Life Sciences, Japan*

**PS-02-p-134** The effects of white sweet potato (Ipomoea batatas L.) intervention on diabetic mice  
Sing-Chung Li¹, Peng-Ju Chen², Hui-Ting Hu¹, Yi-Jing Su¹, Yu-Hsuan Chen¹, Chiao-Ming Chen²  
¹Taipei Medical University, Taiwan, ²Shih Chien University, Taiwan

**PS-02-p-135** Isolation and Characterization of probiotics from Sri Lankan finger millet (Elucine coracana)  
D M W D Divisekera¹, J K R R Samarasekera¹, C Hettiarachchi², J Gooneratne¹, S Gopalakrishnan²  
¹Industrial Technology Institute, Sri Lanka, ²University of Colombo, Sri Lanka, ³International Crops Research Institute for the Semi-Arid Tropics, India

**PS-02-p-136** Effect of chondroitin sulfate on glycosaminoglycan production in human skin fibroblasts  
Kanna Tanaka, Masahiro Wada, Kenji Kobata, Sachie Nakatani, Noriko Watanabe  
*Josai University, Japan*

**PS-02-p-137** A multi-grain koji supplementation diet improved body fat percentage and the intestinal microflora in women attending college  
Mariko Asano¹, Akihiro Maeta¹, Takafumi Iguchi², Takayuki Segawa², Toshiro Watanabe², Kyoko Takahashi¹  
¹Mukogawa women's University, Japan, ²Yaegaki Bio-Industry, Inc., Japan

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Norie Suzuki-Sugihara¹, Yoshimi Kishimoto¹, Eni Saitha¹, Chie Taguchi¹, Makoto Kobayashi², Yuichi Ukawa², Yuko Sagesaka², Hisanori Kato², Kazuo Kondo¹  
¹Ochanomizu University, Japan, ²ITO EN, LTD., Japan, ³The University of Tokyo, Japan

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Akira Ando¹, Masatomo Nakagawa², Shigeji Muramatsu²  
¹University of Tsukuba, Japan, ²Chiba University, Japan

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¹Yonsei University, Korea, ²Dong-A University, Korea, ³Yonsei University College of Medicine, Korea
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<td>¹Aichi Gakuin University, Japan, ²Healthcare Systems Co., Ltd, Japan</td>
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<td>¹Nishikyusyu University, Japan, ² Saga University, Japan, ³Tohoku University, Japan, ⁴The University of Ryukyu, Japan</td>
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¹University of Niigata Prefecture, Japan, ²Niigata Agricultural Research Institute, Japan

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¹University of Douala, Cameroon, ²University of Potsdam, Germany

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¹Tokyo Kasei University, Japan, ²National Center for Child Health and Development, Japan, ³Yokohama City University Medical Center, Japan

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¹University of Ruhuna, Sri Lanka, ⁶Baylor College of Medicine, USA

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1Universitas Indonesia / Indonesian Pediatric Society (IDAI), Indonesia, 2Universitas Gajah Mada / Indonesian Pediatric Society (IDAI), Indonesia, 3Sarihusada Research and Development Nutrition Center, Indonesia, 4Danone Nutricia Early Life Nutrition, Singapore

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1Shahid Sadoughi University of Medical Sciences, Iran, 2Yazd Diabetes Research Center, Iran.

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1Kobe Women's University Graduate School, Japan, 2Osaka City University, Japan, 3Ohno Memorial Hospital, Japan, 4Beth Israel Deaconess Medical Center, Harvard Medical School

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1Takayama University, Japan, 2University of Marketing and Distribution Sciences, Japan, 3Nara university of Education, Japan
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Mananga Ms. Marlyne-Josephine1, Marie Modestine Dr. Kana Sop2, Nicolas Mr. Nolla2, Ekoe Prof. Tetanye1, Inocent Prof Gouado2
1Yaounde I University, Cameroon, 2Douala University, Cameroon

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1Public Health Center Payolansek, Indonesia, 2Andalas University, Indonesia

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1Kurume University School of Medicine, Japan, 2Fukuoka Women's University, Japan

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1Fukuoka University, Japan, 2Okayama Prefectural University, Japan

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1Kanagawa University of Human Services, Japan, 2Aichi Shukutoku University, Japan, 3National Institute of Health and Nutrition, Japan, 4Tokyo Medical and Dental University, Japan

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1Kyoto Koka Women's University, Japan, 2Sumiyoshi General Hospital, Japan

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<td>1Wayamba University of Sri Lanka, Sri Lanka, 2University of Reading, UK</td>
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<th>PS-02-p-224</th>
<th>Places for Physical Activity and Obesity among Brazilian Adults: A Multilevel Analysis</th>
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<td>Gustavo Velasquez Melendez, Fernanda P. Matozinhos, Crizian S. Gomes, Larissa L. Mendes, Milene C. Pessoa</td>
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<th>PS-02-p-225</th>
<th>Obesogenic Environments: Exploring the Food Environments in an Urban Population of Brazil</th>
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<tr>
<th>PS-02-p-226</th>
<th>Prevalence of anorexia nervosa in adolescents in Japan</th>
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<td>Eiko Sugiyama, Shin Yokoyama, Mari Hotta, Reiko Horikawa, Masamitsu Nakazato, Yuri Okamoto, Chisato Ohara, Yoshihiro Ogawa</td>
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<td>1Nagano Prefectural College, Japan, 2Nagano Red Cross Hospital, Japan, 3National Graduate Institute for Policy Studies, Japan, 4Tokyo Women’s Medical University, Japan, 5National Center for Child Health and Development, Japan, 6Kumamoto University Hospital, Japan, 7University of Miyazaki, Japan, 8Hiroshima University, Japan, 9Tokyo Medical and Dental University, Japan</td>
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<th>PS-02-p-227</th>
<th>Eating habits and work-family conflict</th>
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<td>Mamiko Kurotani, Aichi Gakusen University, Japan</td>
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<th>PS-02-p-228</th>
<th>Milk fortified with vitamin D could reduce the prevalence of vitamin D deficiency among Japanese female college students</th>
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<td>Yoshi Suzuki, Asako Maruyama-Nagao, Keishoku Sakuraba, Sachio Kawai</td>
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<th>PS-02-p-229</th>
<th>Macronutrient intake and sleep: cross-sectional associations in a cohort of community dwelling men</th>
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<td>Yingting Cao, Anne Taylor, Gary Wittert, Zumin Shi, University of Adelaide, Australia</td>
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<th>PS-02-p-230</th>
<th>Associations between dietary behaviors and rotating shift work among Japanese nursing staff</th>
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<td>Yoshizaki Takahiro, Kawano Yukari, Noguchi Osamu, Onishi Junko, Teramoto Reiko, Sunami Ayaka, Yokoyama Yuri, Tada Yuki, Hida Azumi, Togo Fumiharu</td>
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<th>Diet during active phase impairs reproductive function in post-adolescent female rats</th>
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<td>Tomoko Fujiwara, Fumino Yamagishi, Akane Matsumoto, Rieko Nakata</td>
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<th>PS-02-p-232</th>
<th>Research on Bone Mineral Density of Female High School Long-Distance Track and Field Athletes</th>
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<td>Kimiko Miyahara, Ikue Soga, Kyoko Morimoto, Reiko Yanai, Keiki Ogino</td>
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<th>Psychological predictors of weight loss in Chinese overweight and obese adult participants of a lifestyle modification program</th>
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<td>Alice W.Y. Leung, Ruth S.M. Chan, Mandy M.M. Sea, Jean Woo, The Chinese University of Hong Kong, Hong Kong</td>
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<th>PS-02-p-234</th>
<th>Cross-sectional study on the relationship between probiotic milk consumption and health status in older Japanese: body weight and morbidity</th>
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<td>Sanae Saitoh, Jun-ichi Minami, Naotake Yanagisawa, Toshitaka Odamaki, Jinzhong Xiao, Fumiaki Abe, Taeko Shimoda</td>
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PS-02-p-235 Cross-sectional study on the relationship between probiotic milk consumption and health status in older Japanese: lifestyle and lifestyle-related disease
Taeko Shimoda1,3, Sanae Saitoh2, Jun-ichi Minami2, Naotake Yanagisawa1, Toshitaka Odamaki3, Jinzhong Xiao1, Fumiaki Abe2
1Tenshi College, Japan, 2Tokyo Healthcare University, Japan, 3Morinaga Milk Industry Co., Ltd., Japan

PS-02-p-236 Cross-sectional study on the relationship between probiotic milk consumption and health status in older Japanese: relationship with sleeping status
Naotake Yanagisawa1, Jun-ichi Minami2, Sanae Saitoh3, Toshitaka Odamaki1, Jinzhong Xiao1, Fumiaki Abe2, Taeko Shimoda1,3
1Morinagamilk Industry Co., Ltd., Japan, 2Tokyo Healthcare University, Japan, 3Tenshi College, Japan

PS-02-p-237 Diet and lifestyle features of groups of Japanese individuals classified according to metabolic syndrome criteria
Katsushi Yoshita1, Keiko Ochiai2, Nahoko Baba2, Michiko Morikawa2, Chiaki Yamazaki2, Akemi Misawa1, Yoko Tsujimoto1, Yasuko Sasaki1, Osamu Kushida1, Tatsuya Koyama1, Akiko Iwahashi1, Tomoe Fujikuma1, Masaji Tabata2
1Osaka City University Graduate School of Human Life Science, Japan, 2Ishikawa Health Service Association, Japan

PS-02-p-238 The relationships between obesity-related genetic variation and lifestyle in normal Japanese subjects
Ohara Eiji1, Hisaki Kumiko2, Sakai Takashi2
1Osaka Yuhigaoka-gakuen Junior College, Japan, 2Osaka International College, Japan

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Hazizi A. Saad, Jia Yan Fam
Universiti Putra Malaysia, Malaysia

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Dietitians4Change Network, Thailand

PS-02-p-241 The impact of menstrual cycle phase on the cardiac autonomic nervous system through changes in diet, physical activity and sleep
Yuki Tada1, Takahiro Yoshizaki2, Ayaka Sunarni3, Yuri Yokoyama4, Jun Yasuda5, Ayumi Nakai3, Kazuto Sasaki6, Azumi Hida1, Yukari Kawano1
1Tokyo University of Agriculture, Japan, 2Toyo University, Japan, 3Tokyo University of Agriculture, Japan

PS-02-p-242 Factors influencing the body image of Japanese college students
Tomoko Imi1, Masaharu Kagawa2, Satomi Maruyama3, Toru Takahashi4, Hatsuko Yamamoto5, Hayato Uchida6, Michiko Koda7, Hiromi Hirata8
1Doshisha Womens College of Liberal Arts, Japan, 2Kagawa Nutrition University, Japan, 3Kinjo Gakuin University, Japan, 4Fukuoka Womens University, Japan, 5Kiryu University, Japan, 6University of Hyogo, Japan, 7Chubu University, Japan

PS-02-p-243 Major dish groups contributing to sodium intake in Korean adults: Based on the KNHANES 2010-2012
YangHee Park, Sang-Jin Chung, Mi-Hyeon Park
Kookmin University, Korea

PS-02-p-244 The situation of the young female rhythmic gymnasts
Mizuho Ban1, Ayumi Kunimoto2, Shigeshi Kikunaga2
1Osaka Seikei University, Japan, 2Notre dame Seishin University, Japan

PS-02-p-245 Cardiovascular health factors evaluation in the Brazilian urban population
Fernanda P Matosinhos, Mariana S Felisbino Mendes, Crizian S Gomes, Ann K Jansen, Isis E Machado, Gustavo Velasquez Melendez
Universidade Federal de Minas Gerais (UFMG)., Brazil

PS-02-p-246 Lifestyle and body weight changes over two years in female nursing students
Ryodai Yamamura, Akane Kato, Natsumi Hirai, Saki Maeda, Taro Yamauchi
Hokkaido University, Japan
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Makoto Ohtsuki1, Ryo Tanaka1, Chihiro Hasegawa1, Katsumi Shibata2, Tutomu Fukuwatari2, Yuko Asai3, Yoko Sasaki4, Kunihiko Nakai5
1Suzuka University of Medical Science, Japan, 2The University of Shiga Prefecture, Japan, 3Matsusaka Public Health Center, Japan, 4Sendai Shirayun Women’s College, Japan, 5Tohoku University, Japan

PS-02-p-248 Lifestyle habits of Japanese electric company workers
Fumi Hirayama, Keiji Yasukawa, Yukio Ishihara
Kyushu University, Japan

PS-02-p-249 Association between the midpoint of sleep, and dietary intake and mental health-related quality of life in elderly Japanese women
Natsuko Sato-Mito1, Eka Fujimoto2
1Azabu University, Japan, 2Japan Women’s University, Japan

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1Nakamura Gakuen University, Japan, 2Health Promotion Center, Japan

PS-02-p-251 Associations of Body Weight Status, Dietary Intake and Sedentary Behavior with Physical Activity Level among University Students
Zuriati Ibrahim, Nursha’adah Taib
Universiti Putra Malaysia, Malaysia

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Masako Yokotsuka1, Masako Arashi2, Satoru Iwai2, Mariko Watanabe3, Kazue Yamaoka3, Toshiro Tango4
1Showa Women’s University, Japan, 2Sagami Women’s University, Japan, 3Bunkyo University, Japan, 4Showa Women’s University, Japan, 5Teikyo University, Japan

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Kaori Endoh1, Kiyonori Kuriki1, Toshinao Goda1
University of Shizuoka, Japan

PS-02-p-254 Case incidents involving registered dietitians at medical institutions: Analysis by KJ method
Yoko Hosoyamada
Shukutoku University, Japan

PS-02-p-255 Analyses of incident contents of institutional food service in the kitchen of a general hospital, Chubu Region, Japan
Satomi Maruyama1, Mitsuaki Ichie2, Tadahisa Tsuruta2
1Kirjo Gakuiin University, Japan, 2Nagoya Ekisaikai Hospital, Japan

PS-02-p-256 Electronic Meal Ordering System <(eMOS)> <-> a Tripartite of Inpatient Meatservice
Gladys HC Wong, Wong HL Pamela
Khoo Teck Puat Hospital, Singapore

PS-02-p-257 A buffet lunch that considered texture improved food intake and satisfaction with diet in hospitalized cancer patients
Hirofumi Takahashi1, Kumiko Totsuba1, Tomomi Kosugi1, Katsumi Arai1, Hiroko Iwabe1, Masae Ikeda1, Hitomi Hirotsawa1, Hiroaki Suzuki2
1University of Tsukuba Hospital, Japan, 2University of Tsukuba, Japan

PS-02-p-258 The Effects of Room Service to Improve Patients’ Food Satisfaction and Food Acceptance
Muhammad Iqbal1, Susetyowati Susetyowati2, Martalena Br. Purb3
1University of Darussalam Gontor, Indonesia, 2Universitas Gadjah Mada, Indonesia, 3DR. Sardjito Hospital, Indonesia

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PS-02-p-254 Case incidents involving registered dietitians at medical institutions: Analysis by KJ method
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PS-02-p-259 Problems and considerations associated with the introduction of a soft food in nursing homes
Atsue Inaba¹, Maya Uenobe¹, Mariko Hayakawa¹, Kazuo Wakabayashi¹,², Ayana Kosaki¹,², Natsumi Waku¹, Yukiko Sato¹, Shoko Ando³, Rie Kato⁴
¹Nagoya Keizai University, Japan, ²Nagoya Keizai University Clinical Nutrition Center, Japan, ³Special nursing home Tanpoppo Nene no Sato, Japan

PS-02-p-261 Glucose-fructose syrup in Polish selected food products
Malgorzata Schlegel-Zawadzka¹
¹Jagiellonian University Medical College, Poland

PS-02-p-262 The associations of vegetable intake with frequency of eating vegetables grown in different areas in rural Japan
Osamu Kushida¹, Ryoji Ito², Seiki Kiyono², Nobuko Murayama³
¹Niigata University of Health and Welfare, Japan, ²Niigata University, Japan, ³University of Niigata Prefecture, Japan

PS-02-p-263 Financial incentive policies at workplace cafeterias for preventing obesity: a systematic review and meta-analysis (Protocol)
Kimi Sawada¹,², Erika Ota², Sadequa Shahrrook², Rintaro Morii²
¹Kiryu University, Japan, ²National Center for Child Health and Development, Japan

PS-02-p-264 Methods of evaluating school lunch-based shokuiku initiatives utilizing the local produce
Chie Tokuhiro¹, Ikuko Shimada²
¹Kochi Prefecture Aki Health and Welfare Center, Japan, ²University of Kochi, Japan

PS-02-p-265 Fact-finding survey on the intake of healthy food and awareness
Yasuko Sannomaru, Takashi Akiyama, Mutsumi Fukaya, Sachihiko Numajiri, Masahiro Wada, Akira Terao
Josai University, Japan

PS-02-p-266 Relationship between vegetable consumption and vegetable growing among residents in Gunma, Japan
Daisuke Machida¹,², Haruko Onoe¹, Tohru Yoshida²
¹Meiwa Gakuen Junior College, Japan, ²Gunma University, Japan

PS-02-p-267 Improving the food environment through reformulation: A comparison of two nutrient profiling models
Gabriel Masset, Antonis Vlassopoulos, Monika Potter, Fabienne Leroy, Bianca Maria Vecchio, Veronique Rheiner Charles
Nestec SA, Nestle Research Center, Switzerland

PS-02-p-268 A novel nutrient profiling score to drive food reformulation
Fabienne Leroy, Monika Potter, Nicolas Pineau, Antonis Vlassopoulos, Gabriel Masset, Veronique Rheiner Charles
Nestec SA, Nestle Research Center, Switzerland

PS-02-p-269 Food Taboo Practices among Javanese Ethnicity in Indonesia
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Bogor Agricultural University, Indonesia

PS-02-p-270 Food Taboo among Minangkabau Community in Indonesia
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PS-02-p-271 Impact of Junk-Food on Nutritional Status of School Going Children of Durg City
Abhaya Ramdas Joglekar, Sandhya Anoop Verma, Rashmi Kashyap
Govt.D.B.P.G.College, India

PS-02-p-272 A novel strategy of a healthy diet recommendation system for personalized nutrition
Tomoko Banno¹, Tomono Uchida², Saiko Ikeda³, Hiroaki Oda⁴
¹College of Nagoya Women's University, Japan, ²Aichi Gakusen University, Japan, ³Nagoya University of Arts and Sciences, Japan, ⁴Nagoya University, Japan

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Madoka Hirashima, Yuka Isobe, Kenji Togashi
Mie University, Japan
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PS-02-p-274 Effect of a Weekly 35-Min 4.4 METs Exercise (Choi-tore) on Body Composition and Bone Mineral Density of Assembly Line Women
Miyako Mochizuki1, Noboru Hasegawa2
1Kyoto Bunkyo Junior College, Japan, 2Ishikawa Prefectural Nursing University, Japan

PS-02-p-275 Change in resting energy expenditure in collegiate female rhythmic gymnasts during competition season
Ayumi Nakai1, Kayo Koizumi1, Kumiko Kisara2, Yayoi Takahashi2, Shigeho Tanaka3, Azumi Hida1, Yuki Tada1, Ayaka Sunami1, Yuri Yokoyama1, Hiroaki Natsui2, Sakuko Ishizaki2, Yukari Kawano1
1Tokyo University of Agriculture, Japan, 2Japan Women's College Of Physical Education, Japan, 3National Institute of Health and Nutrition, Japan

PS-02-p-276 Determinants of Energy Expenditure (Physical Activity) in Indonesian Adolescents
Cyndy Au1, May O Lwin1, Hardinsyah Hardsyah2
1Nanyang Technological University, Singapore, 2Bogor Agricultural University, Indonesia

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Jun Yasuda1, Tatsunosuke Gomi1, Ayaka Sunami1,2, Yuri Yokoyama1,2, Ayumi Nakai1, Kazuto Sasaki1, Yuki Tada1, Azumi Hida1, Hiroharu Kamioka1, Yukari Kawano1
1Tokyo University of Agriculture, Japan, 2Research Fellow of the Japan Society for the Promotion of Science, Japan

PS-02-p-278 Education and Public Information on Climate Change Adaptation of Food Safety
Gun-Hee Kim1, Sun-Duk Cho1, Ki-Hwan Park2
1Duksung Women's University, Korea, 2Chung-Ang University, Korea

PS-02-p-279 The Combined Study on Nutritional Intake and Food Requirement to Live Healthy Life
Okajima Toshiya
Saga University, Japan

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PS-02-p-280 Survey research for food environment and health condition of temporary housing elderly residents in stricken area, Tohoku
Ryoko Wada, Chisa Ikeda, Kazuko Kato
Tokyo Kasei University, Japan

PS-02-p-281 Stockpile situation of emergency food at home in Japan - Comparison between actual and self-reported stockpiles -
Keiko Mori
Aichi Gakuin University, Japan

PS-02-p-282 Are Rice Plants Growing in the Paddy Field Screwed with Seawater?
Mieko Kimura1,2, Shintaro Saomoto1, Takahisa Takeda1, Toshikazu Yoshikawa2
1Takeda Research Institute of Life Science, Japan, 2Kyoto Prefectural University of Medicine, Japan

PS-02-p-283 Utilization of the disaster food - The results of sensuality examination of the commercial disaster food -
Shoko Koudou, Naomi Katayama, Mizuki Ito, Yasuyo Nakagawa, Hagie Nakamura, Ryouko Takekawa
Nagoya Women's University, Japan

PS-02-p-284 Taste Examination of Commercially Available Disaster Food - By Using Taste Analyzer-Yasuyo Matsufuji1, Naomi Katayama2, Satoshi Kumagai3
1Junshin Junior College, Japan, 2Nagoya Women's University, Japan, 3Saga University, Japan

PS-02-p-285 Proposal of "Diet Triage Card" to be Adopted by the Household: Research Based Upon the Questionnaire
Megumi Hasegawa1, Wakako Tsuda2
1Jissen Women's University, Japan, 2Sakura no Seibo Junior College, Japan
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**PS-02-p-286** Effects of a Long-Term Intervention in a Work Cafeteria on Employee Vegetable Intake  
Akemi Misawa¹, Katsushi Yoshita¹, Tomoe Fukumura¹, Taichiro Tanaka², Junko Tamaki³,  
Toru Takebayashi⁴, Yukinori Kusaka³, Hideaki Nakagawa³, Hiroshi Yamato¹, Akira Okayama³,  
Katsuyuki Miura⁴, Tomonori Okamura⁴, Hirotugu Ueshima⁴,¹⁰  
¹Osaka City University, Japan, ²Toho University, Japan, ³Osaka Medical College Department of Hygiene &  
Public Health, Japan, ⁴Keio University, Japan, ⁵University of Fukui, Japan, ⁶Kanazawa Medical University,  
Japan, ⁷University of Occupational and Environmental Health, Japan, ⁸First Institute for Health Promotion and  
Health Care, Japan, ⁹Shiga University of Medical Science, Japan, ¹⁰HIPOP-OHP Research Group.

**PS-02-p-287** Nutritional And Lifestyle Risk Behaviors And Their Association With Mental Health And  
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Nida Jawed¹, Saadiyah Rao¹, Nadia Shah¹, Sumera Inam¹, Kashif Shafique¹,²  
¹Dow University of Health Sciences, Pakistan, ²University of Glasgow, UK

**PS-02-p-288** Dietary Intake Food Sources of Vitamin D and Its Deficiency in Women Workers in  
Indonesia  
Betty Yosephin Simanjuntak¹, Ali None Khomsan², Dodik None Briawan², Rimbawan None Rimbawan²  
¹Health Polytechnic Bengkulu, Indonesia, ²Bogor Agricultural University, Indonesia

**PS-02-p-289** Evaluation of the effects of body fat and leptin on changes in the bone density of Japanese  
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Megumi Kubota, Rikako Inoue  
Okayama Prefectural University, Japan

**PS-02-p-290** Develop Recipes from Gac Fruit, Fruit from Heaven  
Chimrueng Kanjana, Benyapa Pajkri, Raungkhajon Ponpis  
Prince of Songklanderagin Hospital, Thailand

**PS-02-p-291** Effect of Fermented Vegetable Food “OM-X” on Defecation Among Constipated Female  
College Students  
Rikako Inoue¹,², Megumi Kubota¹, Muneaki Takahata³  
¹Okayama Prefectural University, Japan, ²Okayama Prefectural University, Japan, ³Notre Dame Seishin University, Japan,  
³BIOBANK Co., Japan

**PS-02-p-292** The effect of fermented milk on defecation and skin condition in healthy young female  
students  
Naoko Mori², Kano Mitsuaki¹, Masuoka Norie¹, Miyazaki Kouji¹, Ueki Yukihide²  
¹Yakult Central Institute for Microbiological Research, Japan, ²Seitoku University, Japan

**PS-02-p-293** Association between perceived health status and subjective socioeconomic status among  
the Japanese older adults living alone  
Naoto Otaki, Hidekazu Tanino, Saeko Yokomizo, Miyako Maeda, Keisuke Fukuo  
Mukogawa Women's University, Japan

**PS-02-p-294** How is happiness decided?  
Ikuco Shimada¹, Asami Okabe², Ayuka Tagashira², Ichisaku Shinohara³, Mamoru Tanaka¹,  
Satoshi Numata¹, Takeaki Okamoto²  
¹University of Kochi, Japan, ²Ehime University, Japan, ³Happy Map Project, Japan

**PS-02-p-295** Breastfeeding Peer Counselling: The NCP Experience  
Emaluz Z. Parian¹, Juan Antonio A. Solon¹, Mary Christine R. Castro¹, Ivanhoe C. Escartin²  
¹Nutrition Center of the Philippines, Philippines, ²National Center for Health Promotion, Philippines

**PS-02-p-296** Factors affecting green tea brand loyalty in young adult consumers  
Rossarin Tansawat, Linna Tongyon, Lawanworn Broese Van Groenou, Passakorn Pinyowattayakorn,  
Sririntra Yostumrong, Titinun Auamnoy  
Chulalongkorn University, Thailand

**PS-02-p-297** The relationship between smoking mothers and their children's lifestyle  
Takako Kumagai¹, Haruyuki Ito¹, Sangun Lee¹, Kavanagh Barry¹, Yukiko Mano²  
¹Aomori University of Health and Welfare, Japan, ²Tohoku Women's Junior College, Japan

**PS-02-p-298** Pinggang Pinoy: A healthy food plate for Filipinos  
Cari Vincent D Cabanilla, Ma. Jovina A Sandoval, Robby Carlo A Tan, Mario V Capanzana  
Food and Nutrition Research Institute, Philippines

**PS-02-p-299** Thailand's food retail transformation: a mixed method study of diet quality and nutrition  
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Matthew Kelly¹, Sam-ang Seubsman¹,², Cathy Banwell¹, Jane Dixon¹, Adrian Sleigh¹  
¹Australian National University, Australia, ²Sukhothai Thammathirat Open University, Thailand
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**PS-02-p-300** Biological control of apple grey mould by two yeast isolates in combination with ammonium molybdate for production of healthy fruit
Hassan Reza Etebarian¹, Maral Azadirooh², Heshmatollah Aminian³
¹Islamic Azad University, Iran, ²University of Tehran, Iran

**PS-02-p-301** Safety of Nanoparticles Evaluated as the Level of ROS In Vitro
Vivek Raju, Guowu Wang, Liping Wang, Wang Jin-Ye
Shanghai Jiao Tong University, China

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**May 17 (Sunday)**

**Poster Session 03**

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<td><strong>PS-03-a-001</strong></td>
<td>Excess intake of alpha-tocopherol decreases extrahepatic phylloquinone concentration without change in blood coagulation and bone morphology</td>
</tr>
</tbody>
</table>
Fumiaiki Hanzawa¹, Saki Nomura¹, Tomono Uchida², Maniko Sonoda³, Hiroko Ikekami³, Yoko Fujinawa³, Saiko Ikeda¹
¹Nagoya University of Arts and Sciences, Japan, ²Aichi Gakusen University, Japan, ³Ochanomizu University, Japan

| **PS-03-a-002** | Association between Serotonin Levels and Body Weight Gains on C57BL/6 Mice fed with Low- or High-fat Diets |
Yi-Hsiu Chen, Bi-Fong Lin
National Taiwan University, Taiwan

| **PS-03-a-003** | Maternal choline deficiency affects offspring health |
Yoshiko Tsukuda, Yukino Miyachi, Takao Hashimoto, Kato Norihisa, Yanaka Noriyuki
Hiroshima University, Japan

| **PS-03-a-004** | Effects of stress on the urinary concentration of trace elements in Japanese young women |
Yukiko Mita, Maho Tomikawa, Asuka Natsume, Chiho Oshima, Junko Tsuzuki
Sugiyama Jogakuen University, Japan

| **PS-03-a-005** | Effects on lipid metabolism by folate-deficiency in rats |
Rieko Nakata, Megumi Kawabata, Hiroyasu Inoue
Nara Women's University, Japan

| **PS-03-a-006** | Benefits of nutritional guidance for dietary management in patients with cardiovascular diseases |
Sasagawa Michiyo¹, Yamamoto Kayo¹, Nakagawa Akihiko¹, Kajinami Kouji²
¹Kanazawa Medical University Hospital, Japan, ²Kanazawa Medical University, Japan

| **PS-03-a-007** | The benefits of vitamin micronutrient beverage (VCRESC) in nutritional management in diabetes patients |
Yamamoto Tise¹, Yamamoto Kayo¹, Nakagawa Akihiko¹, Nakano Sigeru², Koya Daisuke³
¹Kanazawa Medical University Hospital, Japan, ²SHiKa Clinic, Japan

| **PS-03-a-008** | The effects of vitamin micronutrient beverage (VCRESC) on ESKD patients vitamin and homocysteine values after long term consumption, it is a case report |
Takeshita Kingo¹, Yamamoto Kayo³, Nakagawa Akihiko¹, Nakano Sigeru², Koya Daisu³, Yokoyama Hitoshi⁴
¹Kanazawa Medical University Hospital, Japan, ²Shika Clinic, Japan, ³Kanazawa Medical University, Japan

| **PS-03-a-009** | The effects of vitamin micronutrient beverage (VCRESC) on oxidation stress marker and values in healthy subjects |
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¹Kanazawa Medical University Hospital, Japan, ²Kanazawa Medical University, Japan

| **PS-03-a-010** | Clinical use of cyclooxygenase inhibitors impairs vitamin B-6 metabolism |
En-Pei Chiang¹, Shu-Yu Huang¹, Feng-Yao Tang², HY Chang¹, ST Huang¹, HD Cheng¹, DY Chen³, JL Lan³, HM Chih⁴
¹National Chung Hsing University, Taiwan, ²China Medical University, Taiwan, ³Division of Allergy Immunology Rheumatology, ⁴Department of Nursing and Pediatrics
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PS-03-a-011 Milk Enhances In Vitro Accessibility and Fractional Absorption of Zinc (FAZ) from High Phytate Intrinsically Labelled Rice in Humans
Ranske Dekker¹, Alida Melse-Boonstra², Elise Talsma², Aditia Fitri¹,², Ellen van den Heuvel¹, Esther Boelma², Sou Chheng Ly², Tjeerd Jan Stomph³, Christophe Zeder¹, Diego Moretti¹
¹Friesland Campina, Netherlands; ²Wageningen University, Netherlands; ³Swiss Federal Institute of Technology, Switzerland

PS-03-a-012 Pterostilbene inhibits vascular smooth muscle cells migration and matrix metalloproteinase-2 through down-regulation JNK phosphorylation
Hsing-Chun Lin
Chung Shan Medical University, Taiwan

PS-03-a-013 Hemicellulose levels and sugar composition in pigmented Thai rice varieties
Chisanucha Sattaponpan, Nusiri Lerdvuthisophon
Thammasat University, Thailand

PS-03-a-014 Relation of quercetin metabolism and lipid excretion into bile juice in rats
Naoto Hashimoto¹,², Kazunori Sasaki², Shigenori Okuno², Kyu-Ho Han³, Michihiro Fukushima³
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PS-03-a-015 A novel myogenic functional residing in the 5' non-coding regain of Insulin receptor substrate-1 (Irs-1) transcript
Hikaru Nagano¹,², Naoko Yamagishi¹,², Chisato Tomida¹,², Yuushi Okumura³, Takeshi Nikawa³, Shigetada Teshima-Kondo³
¹National Agriculture and Food Research Organization, Japan; ²Tokushima University Graduate School, Japan; ³Sagami Women's University, Japan

PS-03-a-016 Nonalcoholic steatohepatitis is developed by a diet high in fat, sucrose, and cholesterol without increasing hepatic iron concentration in rats
Katsuko Takai, Tohru Matsui, Masayuki Funaba
Kyoto University, Japan

PS-03-a-017 Hinokitiol attenuates LPS-induced inflammation and insulin resistance in 3T3-L1 adipocytes
Yun-Ying Su, Kai-Li Liu, Whei-Ling Chiang
Chung Shan Medical University, Taiwan

PS-03-a-018 Quercetin enhances the vorinostat-induced apoptosis in H1299 cells through upregulation of p300 protein expression
Shu-Ting Chan², Cheng-Hung Chuang¹, Shu-Lan Yeh²
¹Hungkuang University, Taiwan; ²Chung Shan Medical University, Taiwan

PS-03-a-019 Effect of 2,3-Diketo-L-gulonic acid on cell growth
Yuriko Shiobara¹, Haruna Miyakawa¹,², Noriko Miyake², Tadao Kurata², Seiichi Homma¹, Emiko Suzuki¹
¹Ochanomizu University, Japan; ²Tokyo Kasei Gakuin University, Japan; ³Niigata University of Pharmacy and Applied Life Sciences, Japan

PS-03-a-020 The serum Secoisolariresinol was highest among dietary lignans in serum in Toon City, Ehime, Japan : The Toon Health Study
Mako Fukuda, Midori Matsuki, Shuhei Kajiwara, Isao Saito, Eri Eguchi, Koutatsu Maruyama, Hisashi Nishiwaki, Satoshi Yamachi, Takeshi Tanigawa, Takuya Sugahara, Koichi Akiyama, Taro Kishida
Ehime University, Japan

PS-03-a-021 Chemopreventive effects of polyphenols on malignant phenotypes induced by chronic inhibition of VEGF in colorectal cancer cells
Shigetada Teshima-Kondo, Yano Chiaki, Yamagishi Naoko, Tomida Chisato, Aibara Kana, Abe Tomoki, Ohno Ayako, Nikawa Takeshi
Tokushima University, Japan

PS-03-a-022 Integral Fatigue Marker Analysis by Comparison Among Serum, Salivary, and Questionnaire Indicators
Kai Li Hsu¹, Han-Hsin Chang¹, Hsiu-Li Liu², Ching-Ho Huang², Pei-Cheng Lin¹, Cheng-Li Lu¹
¹Chung Shan Medical University, Taiwan; ²National Taiwan University of Physical Education and Sport, Taiwan

PS-03-a-023 The relation between food intake and hypothalamus gene expression were observed in female rats fed diet containing soy isoflavone
Tomoaki Izumi, Mina Fujitani, Asami Iwashara, Taro Kishida
Ehime University, Japan
Program

PS-03-a-024 Continuous administration of viscous solution of high molecular weight dietary fiber thickens a gastric mucosa of mice efficiently
Fumiyo Takabayashi
University of Shizuoka, Japan

PS-03-a-025 Dietary phytic acid prevents fatty liver and affects the colonic environment in rats fed a high-sucrose diet
Tetsuyuki Katayama
Institution of Life Sciences and Nutrition, Japan

PS-03-a-026 Effect of Water Intake Levels on Linier Growth the Offspring Rats (Sprague dawley)
Afriina Eka Sari Saifuddin Rum, Hardinsyah Hardinsyah Hardinsyah, Ikeu Tanzha Tanzha
Bogor Agricultural University, Indonesia

PS-03-a-027 Pattern of macro and micro-nutrient intake among Bangladeshi type-2 diabetic and non-diabetic subjects
Farida Jasmine, Sharmin Hossain, Kaniz Fatema, Liaquat Ali
Bangladesh University of Health Sciences, Bangladesh

PS-03-a-028 Amelioration of Fatty Liver Induced by Vitamin B6-deficiency in Rats by Choline or PC
Erina Kitagawa1,2, Tatsuya Yamamoto1, Kohei Yamamoto1, Tomoyuki Nakagawa1, Takashi Hayakawa1
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PS-03-a-029 Functional supplements containing ferulic acid and naturally-occurring antioxidants improve symptoms of not only cognitive dysfunctions but also swallowing difficulties
Futoshi Ebara1,2, Keiko Takagi1, Yousuke Nagai2, Hiroaki Murase3, Yuji Uzuhashi3, Kyoko Yoshida1, Chidori Ebara1, Kazunori Utsunomiya2
1Takada Central Hospital, Japan, 2Tokyo Jikei University School of Medicine, Japan, 3Ina Food Industry Co., Ltd., Japan, 4Glovia CO., LTD., Japan

PS-03-a-030 Microarray analysis of the functional RNAs in bovine milk whey-derived exosomes and their effects on human macrophages
Hirohisa Izumi1, Muneya Tsuda1, Yohei Sato1, Nobuyoshi Kosaka2, Takahiro Ochiya2, Hiroshi lwamoto1, Kazuyoshi Namba1, Yasuhiro Takeda1
1Morinaga Milk Industry Co., Ltd., Japan, 2National Cancer Center Research Institute, Japan

PS-03-a-031 Effects of parental folate deficiency on the folate content, global DNA methylation the postnatal rat liver
Karen Kay R. Mejos1, Hye Won Kim2, Eun Mi Lim2, Namsoo Chang2
1Philippine Women's University, Philippines, 2Ewha Womans University, Korea

PS-03-a-032 Relationship between long-term chlorella consumption and lipid metabolism in male adults: global gene expression analysis and findings from MTHFRC677T
Masaki Fujishima1, Onishi Masato1, Kobayashi Michio2, Nakamura Seiji2, Takekoshi Hideo1
1Sun Chlorella Corp., Japan, 2DNA Chip Research inc.,

PS-03-a-033 The long term intake of yogurt and postprandial blood glucose level are associated with diabetes related SNPs
Daiki Watanabe, Sachi Kuranuki, Akiko Suntou, Kenji Toyama, Teiji Nakamura
Kanagawa University of Human Services, Japan

PS-03-a-034 Analysis of genetic polymorphism of human bitter-taste receptor TAS2R and glutathione-S-transferases (GSTs) and bitter taste palatability
Michiko Yamaki, Hiroki Saito, Kunio Isono, Hitoshi Shirakawa, Tomoko Goto, Michio Komai
Tohoku University, Japan

PS-03-a-035 Cocoa polyphenols treatment can attenuate body weight gain and abdominal fat accumulation in high-fat diet induced obese rats
Amin B. Ismail, Ali H.H Faisal, Norhaizan B. Mohd-Esa, Pei-Pei Chong
Universiti Putra Malaysia, Malaysia

PS-03-a-036 Comprehensive proteome study of the effects of chlorogenic acid on energy metabolism in HepG2 cells
Shoko Takahashi, Hisanori Kato
The University of Tokyo, Japan
Program

PS-03-a-037 Genome-wide methylation analysis of transgenerational effects of maternal protein restriction on salt sensitivity in SHRSP rats
Lila N Otani1, Masayuki Satō1, Kenji Saito1, Fumihito Miura2, Katsuhiko Shirahige1, Takashi Ito2, Hisanori Kato1
1The University of Tokyo, Japan, 2Kyushu University, Japan

PS-03-a-038 Effects of dietary iron status on the gene expression profile in rat liver
Asuka Kamei1, Yuki Watanabe1, Fumika Shinozaki1, Soichi Arai2, Keiko Abe3
1Kanagawa Academy of Science and Technology, Japan, 2Tokyo University of Agriculture, Japan, 3The University of Tokyo, Japan

PS-03-a-039 The Establishment of High-Throughput Analysis System of Multiple Enzyme Activities for the Promotion of Nutri-Omics Study
Kenji Saito, Hisanori Kato
The University of Tokyo, Japan

PS-03-a-040 Development of systems for measuring and analyzing electrocardiogram and heart rate variability using a system development software
Yoshimitsu Okita1, Kumiko Ohara2, Kazuhiro Ishihara3, Yutaka Taira3, Motoko Takaoka4, Motohiko Kimura5, Toshifumi Sugiiura6, Harunobu Nakamura7
1Shizuoka University, Japan, 2Kyoto University, Japan, 3Research Fellow of Japan Society for the Promotion of Science, Japan, 4PERITEC Corp, Japan

PS-03-a-041 Plasma Levels of Advanced Glycation End Products during Pathogenic Progress of Diabetes in Spontaneously Diabetic Torii Rats
Sijing Chen, Toshiro Matsui, Mitsuru Tanaka, Chiwa Aikawa
Kyushu University, Japan

PS-03-a-042 Circadian Rhythm Genes CLOCK and PER3 Polymorphisms and Morning Gastric Motility in Humans
Mitsue Yamaguchi1, Kazuhiko Kotani2, Kokoro Tsuzaki2, Maki Suzuki3, Ikuyo Hayashi4, Naoki Sakane5, Toshio Moritani6, Narumi Nagai7
1Yamagata Prefectural Yonezawa University, Japan, 2Jichi Medical University, Japan, 3Kyoto Medical Center, Japan, 4University of Hyogo, Japan, 5Kyoto University, Japan

PS-03-a-043 Guar gum-xanthan gum mixture reduces hepatic lipids in rats fed high fat-sucrose diet
Yukiko Yamamoto, Yurika Tanaka, Kana Yamamoto
Tokai Gakuen University, Japan

PS-03-a-044 Green tea beverage influences the spontaneous locomotor activity, intakes of food and water in juvenile mice loaded with isolation stress
Takako Yamato, Tomomi Matsuoka, Atsuko Nishimori, Ryosuke Nigo, Masahiro Aomine
Nakamura Gakuen University, Japan

PS-03-a-045 Effects of chronic exercise on the exocrine and endocrine pancreas in WBN/Kob-Fatty rats
Kumiko Minato1, Yoko Shiroya1, Yuka Kurosaka1, Hideki Yamaguchi1, Yuki Nakamura2
1Keio University School of Medicine, Japan, 2Wayo Women's University, Japan

PS-03-a-046 Oral administration of Sea buckthorn (Hippophae rhamnoides) pulp oils restores tear secretion capacity in a mouse dry eye model
Nakamura Shigeru1, Kimura Yuki2, Daisuke Mori2, Michiko Shibuya1, Kazuo Tsubota1
1Keio University School of Medicine, Japan, 2Gifu Shellac Manufacturing Co., Ltd, Japan

PS-03-a-047 An irregular feeding schedule affects daily rhythms of hepatic genes expression on lipid metabolism in rats
Yuka Nishida1, Kanae Ideguchi2, Shiori Osaka3, Nahoko Nouwara3, Asami Maeda3, Hideo Kato5
1Prefectural University of Hiroshima, Japan, 2Kawasaki University of Medical Welfare, Japan, 3Mitoyo General Hospital, Japan, 4National Hospital Organization Yamaguchi-Ube Medical Center, Japan, 5Tohoku Women's College, Japan

PS-03-a-048 The trial for amelioration of cold constitution using menopause-model rats
Ryosuke Nigo, Atsuko Nishimori, Tomomi Matsuoka, Takako Yamato, Masahiro Aomine
Nakamura Gakuen University, Japan

PS-03-a-049 Acceptability of measurement of resting energy expenditure using a new device with mouthpiece in young women
Nozomi Morikawa, Yasue Nakagawa
Jissen Women's University, Japan
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**PS-03-a-050 Effective Suppression of Adipose Tissue Weight Gain in Rats by Awa Indigo Plant (Awa-ai) Consumption**
Maki Kondo, Hiroko Tsuji, Miyuki Iwata, Mayuka Kunimatsu
Shikoku University, Japan

**PS-03-a-051 Usefulness of breakfast intake for the change of cerebral blood flow dynamics and stress index**
Satoko Abe, Amane Otaki, Eiichi Geshi
Showa University, Japan

**PS-03-a-052 Effects of aspirin on inflammation, muscle damage and histopathological changes of the liver after exhaustive exercise in rats**
Kuo-Chin Huang1, Tsai-Jung Ho2, Tai-Ger Hsu3, Yi-Han Chiu
1Mackay Medical College, Taiwan, 2Ming Chuan University, Taiwan, 3University of Taipei, Taiwan

**PS-03-a-053 Effect of Casein on Toxicity of Arsenic in Rats**
Deng-Fwu Hwang, Chien-Te Chou
National Taiwan Ocean University, Taiwan

**PS-03-a-054 Skipping breakfast affects diurnal rhythm of salivary biomarkers in Japanese university students**
Izumi Sakaban1, Tayamoto Tomoko1, Ichida Shiori1, Komenami Naoko1
1Kyoto Women's University, Japan, 2Kyoto University, Japan

**PS-03-a-055 Effects of Japanese dietary pattern on defecation and metabolic gene expression in young Japanese women**
Rieko Mitamura1, Aki Ueda1, Koji Hasegawa2, Akio Obata2
1Fuji Women's University, Japan, 2Kikkoman Corporation, Japan

**PS-03-a-056 Transcriptomic and metabolomic analyses depicted distinct characteristics between slow-twitch and fast-twitch muscles in mice**
Shoko Sawano1, Yuri Tajima1, Johan Rung2, Mako Nakamura1, Ryuichi Tatsumi1, Yoshihide Ikeuchi1, Wataru Mizunoya1
1Kyushu University, Japan, 2Uppsala University, Sweden

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**PS-03-a-057 Use of low and moderate high hydrostatic pressure at subzero temperatures for inactivation of Escherichia coli in milk**
Sami Bulut, Ceren Pekgitrine
Trakya University, Turkey

**PS-03-a-058 Influence of Dietary Propolis Residue on Bacterial Flora in the Cecum of Barred Plymouth Rock**
Ken R. Ito1, Chinami Akamine2, Wataru Kawada3, Yoichiro Shimura3, Tamio Inamoto3, Kazumi Kita1,2
1Iwate University, Japan, 2Akita Prefectural University, Japan

**PS-03-a-059 Impact of Synergistic food-gums system on yield and quality properties of Low fat pickled Domiati cheese**
Ahmed Helal1, Alnemr M Tareq2
1Damanhour University, Egypt, 2Alexandria University, Egypt

**PS-03-a-060 Effect of Synergized filler as protein base substitution on technological properties of Low-Fat Spreadable processed cheese analogue**
Tareq M Alnemr
Alexandria University, Egypt

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Hiroshi Masuda1, May Sann Aung1, Takanori Kobayashi1, Hiromi Nakanishi2, Naoko K. Nishizawa1, Naoko K. Nishizawa2
1Ishikawa Prefectural University, Japan, 2The University of Tokyo, Japan
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PS-03-a-062 Impact Of Intervention Strategies On Anaemic Adolescent Girls  Anooja Thomas K and Ramya R
Anooja Thomas Anooja, Ramya R Ramya
CMS College Mahatma Gandhi University, India

PS-03-a-063 Oral tributyrin attenuates lipopolysaccharide-induced intestinal injury especially in jejunum and ileum via down regulation of toll like receptor 4
Makoto Miyoshi¹, Mayu Fujiwara¹, Motoki Kai¹, Yuya Nishiyama¹, Michiko Aoyama-Ishikawa¹, Noriaki Maeshige¹, Hayato Yamashita¹, Yuka Koga¹, Makoto Usami¹²
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PS-03-a-064 Fortification Effects of FeSO4 and ZnCl2 on Iron and Zinc Contents of Symbiotic Goat Milk Yogurt
Binar B Panunggal, Andri Widarta Wong
Diponegoro University, Indonesia

PS-03-a-065 Study on the effect of an amino acids-containing beverage on psychological stress reduction in healthy adult women
Motoko Takaoka¹, Kyoko Suzuki¹, Masaru Ohtani², Taizo Seki³, Takahito Tetsui³, Seiji Kurita³, Masahiko Ooe⁴
¹Kobe College, Japan, ²The University of Tokyo, Japan, ³Noevir Co., Ltd., Japan, ⁴TOKIWA Pharmaceutical Co., Ltd., Japan

PS-03-a-066 The addition of beeswax elevates the absorption of triglycerides with EPA and DHA
Nakamichi Watanabe⁵, Satomi Oshino⁵, Yu Ikeda⁶, Kono Takayuki⁶
⁵Showa Women's University, Japan, ⁶Yamada Bee Company, Inc., Japan

PS-03-a-067 Chronic chlorella administration increases plasma nitrite/nitrate level in obese type 2 diabetic rats
Shumpei Fujie¹, Koji Sato¹, Natsuki Hasegawa¹, Naoki Horii¹, Toru Mizoguchi¹, Masato Onishi¹, Motoyuki Iemitsu¹
¹Ritsumeikan University, Japan, ²Sun Chlorella Corp., Japan

PS-03-a-068 Growth Maintenance after Discontinuation of an Assigned Treatment with either Oral Nutritional Supplementation or Dietary Counseling in Nutritionally at-Risk Children
Dieu TT Huynh¹, Apurba Ghosh², Bala Kishore³, Yen Ling Low¹
¹Abbott Nutrition Research and Development, Singapore, ²Institute of Child Health, ³St Theresa's Hospital

PS-03-a-069 Soy protein diet prevents eccentric contraction-induced calpain activation and force depression
Keita Kanzaki¹, Daiki Watanabe², Yuya Ishii², Katsutoshi Hirano², Masanobu Wada²
¹Kurashiki Sakuyo University, Japan, ²Hiroshima University, Japan

PS-03-a-070 The disposition of dietary-derived flavonoids after consuming the flavonoid-enriched meals in humans
Ryo Mannen, Michiko Yasuda, Takahiro Hosoya, Ayami Sano, Sigenori Kumazawa, Toshinao Goda, Kayoko Shimoi, Yoko Ichikawa
University of Shizuoka, Japan

PS-03-a-071 Nutritional factors associated with improved growth in nutritionally at-risk children who received long-term oral nutritional supplementation
Yen Ling Low¹, Dieu TT Huynh¹, Elvira Estorninos², Rosario Capeding³, Jeffery S. Oliver³, Francisco J. Rosales³
¹Abbott Laboratories, Singapore, ²Asian Hospital and Medical Center, Philippines, ³Abbott Nutrition, Abbott Laboratories, USA

PS-03-a-072 Absorption and distribution of water-soluble formulation of lutein into human blood
Junya Kobayashi¹, Etsuko Tominaga¹, Satoko Miyazaki¹, Masahiro Kurono¹, Makoto Ozeki¹, Tsutomu Okubo¹, Kiyotaka Nakagawa¹, Teruo Miyazawa²
¹Taiyo Kagaku Co. Ltd., Japan, ²Tohoku University, Japan

PS-03-a-073 Impact of Iron Fortified Rice on the micronutrient status of reproductive age Vietnamese women
Thuy Van Pham², Nga Thuy Tran², Yukiko Nakanishi¹
¹ILSI Japan CHP, Japan, ²National Institute of Nutrition, Viet Nam
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**PS-03-a-074** Impact of Vitamin D Fortified Milk Supplementation on Vitamin D Status of Healthy School Children Aged 10-14 Years  
Manfred Eggersdorfer  
*DSM Nutritional Products, Switzerland*

**PS-03-a-075** Biotin and carnitine contents of infant formulas manufactured in China and Japan  
Wanti Shen¹, Masahiro Yuasa¹, Hiromi Sawamura¹, Fumihito Nozaki², Toshiaki Watanabe¹  
¹University of Hyogo, Japan, ²Shiga Medical Center for Children, Japan

**PS-03-a-076** Analysis of the Factors of Taking Supplements on the College Students  
Masanmichi Yamashita¹, Junko Ito²  
¹Niin University Junior College, Japan, ²Yokohama College of Pharmacy, Japan

**PS-03-a-077** Amorphous Curcumin Dispersions Has a High Absorption Potency in Human-A Double Blind, Randomized, 4-Way Crossover Study-  
Nobuko Okamura¹, Yoichi Sunagawa¹², Yasufumi Katanasaka¹², Hiromichi Wada³, Atsushi Imaizumi⁴, Tadashi Hashimoto⁴, Akira Shimmoto¹, Hideaki Kakeya⁴, Koji Hasageawa², Tatsuya Morimoto¹³  
¹University of Shizuoka, Japan, ²Kyoto Medical Center, Japan, ³Shizuoka General Hospital, Japan, ⁴Theravalues Corporation, Japan, ⁵Kyoto University, Japan

**PS-03-a-078** Effect of soy isoflavone supplementation on climacteric symptoms, bone turnover markers, and quality of life in Korean postmenopausal women  
Hansongyi Lee, Ryowon Choue, Hyunjung Lim  
*Kyung Hee University, Korea*

**PS-03-a-079** Toxicity Test of Copper- Chlorophyll Derivative Powder (Cu-Chlorophyllin) from Mulberry Leaf (Morus Alba L.) as Prototype Material for Food Supplement  
Clara M. Kusharto¹, Risti Rosmiati¹, Nunuk M. Januwati²  
¹Bogor Agricultural University, Indonesia, ²Balai Penelitian Tanaman Rempah dan Obat, Indonesia

**PS-03-a-080** An Analysis of Allergen Contamination of Non-Allergen Food Preparation in a Home Setting  
Naoko Okishima, Minami Aoyama, Miho Ogura, Yuki Miyazawa, Mari Endoh, Nao Mochizuki, Matsushita Satomi, Shin-ya Mezaki  
*Matsumoto University, Japan*

**PS-03-a-081** A Chemical Engineering Perspective Towards Food and Nutrition Research  
Kok Ping Chan  
*Institute of Chemical and Engineering Sciences, Singapore*

**PS-03-a-082** Enterotoxin A production by *Staphylococcus aureus* in a liquid medium and cooked rice  
Satomi Tsutsuura, Masatsune Murata  
*Ochanomizu University, Japan*

**PS-03-a-083** Search of putative compounds that induce hepatic cytochrome P450 and fatty liver in *Coleus forskohlii* extract  
Kaori Yokotani, Tsuyoshi Chiba, Sachina Suzuki, Keizo Umeaki  
*Information Center, National Institute of Health and Nutrition, Japan*

**PS-03-a-084** Microbiological Evaluation Of Food Premises Contact Surfaces In Kota Kinabalu Based On Grading System  
Maslinah Dullah¹², Sharifudin Md Shaaranil¹²  
¹Faculty of Food Science And Nutrition, ²University Malaysia Sabah, Malaysia

**PS-03-a-085** Effects of Germination Conditions on Gamma-Aminobutyric Acid and Glutamate Contents of Germinated Brown Rice  
Shirao Mika, Kana Sakaia, Makoto Tajima  
*Jissen Women's University, Japan*

**PS-03-a-086** The effect of exercise on digestibility and absorbability  
Hidehiko Izumi, Chikako Yamada  
*Nagoya University of Arts and Sciences, Japan*

**PS-03-a-087** The potential applicability of MALDI-MS to metabolic profiling of diverse green tea extracts with antioxidant activity  
Yoshinori Fujimura, Asako Nakamura, Daichi Yukihiro, Rie Nishimuta, Tomomi Ichinose, Eisuken Hayakawa, Daisuke Miura, Hiroyuki Warishi, Hirofumi Tachibana  
*Kyushu University, Japan*
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PS-03-a-088 Nutritional components in Voi: traditional tea in Vietnam
Yuki Motoo, Tetsuya Takao
Showa Women's University, Japan

PS-03-a-089 Effects of soybean Monascus koji on the bread physical properties
Mami Takahashi, Takashi Mastumoto
Showa Women's University, Japan

PS-03-a-090 Exploration of novel herb seed oil containing conjugated linolenic acid
Taro Honma, Yuki Banno, Tsutomu Takeyana
Tokyo University of Technology, Japan

PS-03-a-091 Nutrient Claims on Indian Packaged Foods: Do They Meet the Substantiation Criteria of Codex Alimentarius?
Meenu Singh, Suneeta Chandorkar
The M.S.University of Baroda, India

PS-03-a-092 Effects of protein functionalities on mimicking the gluten structure in gluten-free crackers
Naththakarn Namnakkuna1, Puntarika Ratanatriwong1, Sheryl Barringer2, Parita Thanasukarn1
1Naresuan University, Thailand, 2The Ohio State University, USA

PS-03-a-093 Oral administration of bovine colostrum whey protein attenuates UVB-irradiated skin damage in hairless mice
Hitomi Kakita1, Shumpei Okubo1, Mai Murata2, Yoshihiro Nomura1, Mutsuto Watanabe1
1Tokyo University of Agriculture & Technology, Japan, 2Morinaga Milk Industry Co., Ltd., Japan

PS-03-a-094 Novel application of Katsura-uri fruit (Cucumis melo var. comonom) in differentiation-inducing, antimitagenic, and antioxidative effects of sulfur-containing fragrant ingredients
Yasushi Nakamura1, Azusa Sasaki1, Tomoaki Matsuo1, Koji Shirot1, Noboru Suetome1, Eun Young Park1, Kenji Sato1, Shigehisa Okamoto4
1Kyoto Prefectural University, Japan, 2Kyoto Prefectural Agricultural Research Institute, Japan, 3Kyoto University, Japan, 4Kagoshima University, Japan

PS-03-a-095 Satiety and Glycemic Indexes of Unpolished Philippine Modern Rice Varieties
Angelina dR. Felix1,2,3, Arvin Paul P. Tuano1,7, Trinidad P. Trinidad10,11,12, Aida C. Mallillin10,11,12, Rosario S. Sagum10,11,12, Bienvenido O. Juliano6,7
1Institute of Human Nutrition and Food, 2College of Human Ecology, 3University of the Philippines Los Banos, 4Rice Chemistry and Quality Laboratory, 5Philippine Rice Research Institute Los Banos, 6,9,10Mineral Bioavailability Section, 11Food and Nutrition Research Institute, 12Department of Science and Technology

PS-03-a-144 Protection of Sulforaphane on LPC Induced Injury of Vascular Endothelial Cell by Regulating Endogenous Antioxidants and Phase 2 Enzymes
Sicong Tian1, Yujuan Shan1, Baolong Li2, Wei Song1, Canxia He1, Weili Xu1, Zhongqing Ding1
1Harbin Institute of Technology, China, 2Heilongjiang University of Chinese Medicine, China

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PS-03-a-096 Comparative study of clinical data and nutrient intakes by abdominal visceral fat area classification in rugby football players
Chiaki Yamashita1, Kayoko Yamazaki1, Yuki Kaneshita1, Takashi Miyazaki1, Reiko Nakayama1, Shingo Okazaki2, Naoko Komenami1
1Kyoto Women's University, Japan, 2Mitsubishi Motors Corporation, Japan

PS-03-a-097 Characteristics of oral allergy syndrome (OAS) patients by citrus fruit and allergenic cross-reactivity with pollen in Japan
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1Fujita Health University, Japan, 2Beppu University, Japan

PS-03-a-098 Investigating the Possibility of Tocotrienol-Rich Fraction in the Maintenance of Bone Quality - A Preliminary Study
Kakeru Kono, Masako Ota, Tomohiro Yano
Toyo University, Japan

PS-03-a-099 Effect of dietary citric acid on hypoxia-induced alterations in carbohydrate metabolism
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PS-03-a-100 The effect of soy yoghurt with synbiotics and plant stanol on postprandial glycemia and satiety in healthy subjects
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PS-03-a-101 The Effect of Different Types of Sugar and Sweetener on Postprandial Glycemic Response
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PS-03-a-102 Beneficial effects of consuming a well-balanced breakfast with an egg on daily nutritional intakes and blood parameters in young females
Chie Taguchi1, Yoshihi Kishimoto2, Norie Suzuki-Sugihara1, Emi Saita1, Mika Usuda2, Yui Ou2, Kazuo Kondo1
1Ochanomizu University, Japan, 2Kewpie Corporation, Japan

PS-03-a-103 Nutritional Predictors of Immune Status for People living with HIV receiving Antiretroviral Therapy (ARV) in Malaysia
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1Universiti Putra Malaysia, Malaysia, 2Sungai Buloh Hospital, Malaysia

PS-03-a-104 Associations of serum homocysteine concentrations with biological and nutritional markers in pre- and postmenopausal Japanese women
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PS-03-a-105 Association between consumption of a supplement containing HMB and the rate of collagen in tissue in pressure ulcer patients
Shizu Higasa1, Shoichi Ishikawa2, Masataka Saito1, Yukiko Suda2, Shigeru Ichikoda2
1Kagawa Nutrition University, Japan, 2Saitama Medical University, Japan

PS-03-a-106 Skatole, an intestinal bacteria-derived dietary protein metabolite, increases concentration of fecal deoxycholic acid-related bile acids and ileal taurocholic acid
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1Hokkaido University, Japan, 2Toyo University, Japan

PS-03-a-107 Status of food and nutrient intake assessment using visual estimation method in hospitals: A qualitative study
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PS-03-a-108 Pterostilbene attenuated the hexavalent chromium-induced allergic contact dermatitis through suppression of inflammation and skin cells cytotoxicity
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1National Cheng Kung University, Taiwan, 2National Cheng Kung University Hospital, Taiwan, 3Chia Nan University of Pharmacy and Science, Taiwan

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1Tokyo Medical and Dental University, Japan, 2Tokyo Healthcare University, Japan

PS-03-a-110 The influence of the periodontal status on dietary intake and in young females
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1Tokyo Healthcare University, Japan, 2Tokyo Medical and Dental University, Japan

PS-03-a-111 Dietary intake and its potential role in comorbidities in patients with rheumatoid arthritis
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1Sagami Women's University, Japan, 2National Hospital Organization Sagamihara National Hospital, Japan

PS-03-a-112 Effect of breakfast on cerebral blood flow in the temporal region during a facial memory task
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1Kanagawa Institute of Technology, Japan, 2National Institute of Public Health, Japan
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PS-03-a-113 The nutritional care in patient with Anti-NMDA receptor encephalitis: A case report
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PS-03-a-114 Nutritional Assessment and Dietary Intake of Home Care Patients
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1Osaka City University, Japan, 2Nishinomiya Social Welfare Corporation, Japan

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Yuko Hasegawa
Kurashiki Sakuyo University, Japan

PS-03-a-121 Nutritional and Physical Activity Status among Adults in Selected Neighbourhoods in Kota Bharu, Malaysia: Sitting Time and Steps Achieved
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Taoyuan general hospital, Ministry of Health and Welfare, Taiwan

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1Ministry of Public Health, Thailand, 2Bamrasnaradura Infectious Disease Institute, Thailand, 3University of California Los Angeles (UCLA), USA

PS-03-a-124 Spatial Distribution of Obesity in Brazilian Urban Area
Gustavo V. Melendez, Fernanda P. Matozinhos, Crizian S. Gomes, Larissa L. Mendes, Milene C. Pessoa, Marcelo A. Costa
1Universidade Federal de Minas Gerais, Brazil, 2Universidade Federal de Juiz de Fora, Brazil, 3Universidade Federal de Viçosa, Brazil
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