

# Program (May 15)

**May 15 (Friday)**

**Oral Session 01**

**Room: 302**

**10:00-12:00 Diabetes/Cancer**

Chairperson: **Toshio 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**  
 Toshio Hosaka<sup>1</sup>, Chung Thi Kim Le<sup>2</sup>, Kouichi Inukai<sup>1</sup>, Hitoshi Ishida<sup>1</sup>  
<sup>1</sup>Kyorin University School of Medicine, Japan, <sup>2</sup>National 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 Chen<sup>1</sup>, Yau-Jiunn Lee<sup>1</sup>, Jia-Yau Doong<sup>2</sup>  
<sup>1</sup>Lee's Endocrinology Clinic, Taiwan, <sup>2</sup>FooYin 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 Hyodo<sup>1,2,3</sup>, Noriko Mikami<sup>4</sup>, Yukie Kitajima<sup>5</sup>, Daisuke Ishii<sup>2</sup>, Kazunari Yoshida<sup>2</sup>, Masatsugu Iwamura<sup>2</sup>, Miho Hida<sup>4</sup>, Yasuhisa Kurata<sup>4</sup>  
<sup>1</sup>Eijin Clinic Dialysis Center, Japan, <sup>2</sup>Kitasato University, Japan, <sup>3</sup>Sen Sok International University, Cambodia, <sup>4</sup>Kurata Hospital, Japan, <sup>5</sup>Tokyo Healthcare University, Japan
- OS01-5 Folate, MTHFR C677T polymorphism and risk of colorectal cancer among Thais**  
 Pornpimol Panprathip<sup>1</sup>, Rungsunn Tungtromgchitr<sup>1</sup>, Theeranan Sappajit<sup>2</sup>, Sahaphol Anannamcharoen<sup>2</sup>, Boonchai Ngamsirimas<sup>3</sup>, Karunee Kwanbunjan<sup>1</sup>  
<sup>1</sup>Mahidol University, Thailand, <sup>2</sup>Phramongkutklao Hospital, Thailand, <sup>3</sup>BMA 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 Wada<sup>1</sup>, Hisami Yamanaka-Okumura<sup>1</sup>, Yutaka Taketani<sup>1</sup>, Takafumi Katayama<sup>2</sup>, Yusuke Arakawa<sup>1</sup>, Satoru Imura<sup>1</sup>, Mitsuo Shimada<sup>1</sup>, Eiji Takeda<sup>1</sup>  
<sup>1</sup>University of Tokushima Graduate School, Japan, <sup>2</sup>University 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 Zaid<sup>1</sup>, Kathryn Jackson<sup>1</sup>, Mirnalini Kandiah<sup>2</sup>, Lynne Cobiac<sup>3</sup>  
<sup>1</sup>Flinders University, Australia, <sup>2</sup>UCSI University, Malaysia, <sup>3</sup>National Research Flagship, Australia

**Oral Session 02**

**Room: 302**

**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 Rahmi<sup>1</sup>, Dwi Yuwono Kristianto<sup>1</sup>, Rizhal Yahya<sup>1</sup>, Arif Sapta Aji<sup>1</sup>, Rois Alfarisi<sup>1</sup>, Slamet Budijanto<sup>2</sup>, Dian Handayani<sup>1</sup>  
<sup>1</sup>University of Brawijaya, Indonesia, <sup>2</sup>University 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. Tuano<sup>1</sup>, Angelina dR. Felix<sup>2</sup>, Trinidad P. Trinidad<sup>3</sup>, Aida C. Mallillin<sup>3</sup>, Rosario S. Sagum<sup>3</sup>, Bienvenido O. Juliano<sup>1</sup>  
<sup>1</sup>Philippine Rice Research Institute Los Banos, Philippines, <sup>2</sup>University of the Philippines Los Banos, Philippines, <sup>3</sup>Food 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 Hossain<sup>1,2</sup>, Li Sui<sup>1</sup>, Fuminori Yamaguchi<sup>1</sup>, Kazuyo Kamitori<sup>1</sup>, Youyi Dong<sup>1</sup>, Ikuko Tsukamoto<sup>1</sup>, Tetsuo Iida<sup>2</sup>, Masaaki Tokuda<sup>1</sup>  
<sup>1</sup>Kagawa University, Japan, <sup>2</sup>Matsutani 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 Ngamdee<sup>1</sup>, Sudarat Jiamyangyuen<sup>1</sup>, Kirk L Parkin<sup>2</sup>  
<sup>1</sup>Naresuan University, Thailand, <sup>2</sup>University 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 Nagata<sup>1</sup>, Yusuke Ushida<sup>2</sup>, Yudai Aoki<sup>2</sup>, Ryohei Umeda<sup>2</sup>, Satoshi Sunabori<sup>2</sup>, Liang Xu<sup>1</sup>, Fen Zhuge<sup>1</sup>, Yuriko Sakai<sup>1</sup>, Hiroyuki Suganuma<sup>2</sup>, Tsuguhito Ota<sup>1</sup>  
<sup>1</sup>Kanazawa University, Japan, <sup>2</sup>Kagome 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-Cruzado<sup>1</sup>, Masaya Kono<sup>1</sup>, Kayo Yoshiyama<sup>2</sup>, Keiichi Fukui<sup>2</sup>, Norihiko Terahara<sup>3</sup>, Toshiro Matsui<sup>1</sup>  
<sup>1</sup>Kyushu University, Japan, <sup>2</sup>JA Miyazaki, Japan, <sup>3</sup>Minami-Kyushu University, 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**  
 Risatianti Kolopaking<sup>1</sup>, Fajar Ariyanti<sup>1</sup>, Umi Fahmida<sup>2</sup>, Agus Firmansyah<sup>2</sup>, Elvina Karyadi<sup>3</sup>, Luh PS Haryanti<sup>1</sup>  
<sup>1</sup>Universitas Islam Negeri Syarif Hidayatullah Jakarta, Indonesia, <sup>2</sup>Universitas Indonesia Jakarta, Indonesia, <sup>3</sup>Indonesian Medical Nutrition Association Jakarta, Indonesia

## Program (May 15)

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

### 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*)

- OS05-1**      **Desire for protein and sweetness is stimulated by dietary habits of high fat intake**  
 Hiroshi Tatano<sup>1</sup>, Hisami Yamanaka-Okumura<sup>1</sup>, Bei Zhou<sup>1</sup>, Yutaka Taketani<sup>1</sup>, Takafumi Katayama<sup>2</sup>, Eiji Takeda<sup>1</sup>  
*<sup>1</sup>University of Tokushima Graduate School, Japan, <sup>2</sup>University of Hyogo, Japan*
- OS05-2**      **FoodLog: Quality Evaluation of Food Records of General Public Using a Multimedia Food Recording Tool**  
 Kiyoharu Aizawa<sup>1</sup>, Mayumi Kasamatsu<sup>2</sup>, Sosuke Amano<sup>1</sup>, Makoto Ogawa<sup>2</sup>, Kazuko Ishikawa-Takata<sup>3</sup>  
*<sup>1</sup>The University of Tokyo, Japan, <sup>2</sup>Foo.log Inc., Japan, <sup>3</sup>National Institute of Health and Nutrition, Japan*
- OS05-3**      **Effects of EGCG and caffeine on food intake and fat accumulation in mice**  
 Litong Liu<sup>1</sup>, Kazutoshi Sayama<sup>1</sup>, Yukihiko Hara<sup>2</sup>  
*<sup>1</sup>Shizuoka University, Japan, <sup>2</sup>Hara Office Inc. Japan*
- OS05-4**      **Gene-diet interaction effect between angiotensin II type 1 receptor (AGTR1) gene polymorphism and dietary pattern on lipids in Malaysian adults**  
 Roseline Wai Kuan Yap<sup>1</sup>, Yoshihiro Shidoji<sup>2</sup>, Wai Sum Yap<sup>3</sup>  
*<sup>1</sup>Taylor's University, Malaysia, <sup>2</sup>University of Nagasaki, Japan, <sup>3</sup>UCSI University, Malaysia*
- OS05-6**      **Effects of Fish Oil Supplementation on Biochemical Profile of Obese Children**  
 Md. Yusop Nor Baizura<sup>1</sup>, Mohd Shariff Zailah<sup>1</sup>, Ting Tzer Hwu<sup>1</sup>, Abd Talib Ruzita<sup>2</sup>, Nicola Spurrier<sup>3</sup>  
*<sup>1</sup>Universiti Putra Malaysia, Malaysia, <sup>2</sup>Universiti Kebangsaan Malaysia, Malaysia, <sup>3</sup>Flinders University and Flinders Medical Centre, Australia*

## Program (May 15)

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

### Oral Session 06

Room: 302

#### 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 Shiikuwasha (*Citrus depressa* Hayata) peel oils using aroma compositional, MS-based electronic nose, and antioxidant analyses**  
 Yonathan Asikin<sup>1</sup>, Goki Maeda<sup>2</sup>, Naoto Hirose<sup>2</sup>, Masami Mizu<sup>3</sup>, Hironori Iwasaki<sup>1</sup>, Hirosuke Oku<sup>1</sup>, Koji Wada<sup>1</sup>  
<sup>1</sup>University of the Ryukyus, Japan, <sup>2</sup>Okinawa Prefectural Agricultural Research Center, Japan, <sup>3</sup>Mitsui 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 Nakamura<sup>1</sup>, Masahiro Koyama<sup>1</sup>, Eri Morita<sup>1</sup>, Sho Okitsu<sup>1</sup>, Naoki Igari<sup>2</sup>  
<sup>1</sup>Shinshu University, Japan, <sup>2</sup>Daiwa 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-Okbi<sup>1</sup>, Doha A Mohamed<sup>1</sup>, Mohamed Abdel Fatah<sup>2</sup>, Kholoud Abdel Aal<sup>2</sup>, Shaimaa E Mohammed<sup>1</sup>  
<sup>1</sup>National Research Centre, Egypt, <sup>2</sup>Ain Shams University, Egypt

### Oral Session 07

Room: 311+312

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

Chairperson: **Hidemi Takimoto** (*National Institute of Health and Nutrition, Japan*)  
**Lwin Mar Hlaing** (*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 Bakhtiary, Rachmadhani Yuniarco, Astri Pramardini  
*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 Hlaing<sup>1,2</sup>, Umi Fahmida<sup>2</sup>, Min Kyaw Htet<sup>3</sup>, Budi Utomo<sup>2</sup>, Agus Firmansyah<sup>2</sup>, Rosalind S. Gibson<sup>4</sup>  
<sup>1</sup>Ministry of Health, Myanmar, <sup>2</sup>University of Indonesia, Indonesia, <sup>3</sup>Trisakti University, Indonesia, <sup>4</sup>University 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 Kang<sup>1</sup>, Lemma Debele<sup>2</sup>, Youn Kyoung Suh<sup>3</sup>, Hee-Soon Juon<sup>4</sup>, Parul Christian<sup>1</sup>  
<sup>1</sup>Johns Hopkins Bloomberg Schools of Public Health, USA, <sup>2</sup>World Vision Ethiopia, Ethiopia, <sup>3</sup>Research and Nutrition Strategy Team, WITH, Korea, <sup>4</sup>Thomas 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. Wijayanti<sup>1</sup>, Lindawati Wibowo<sup>2</sup>  
<sup>1</sup>Diponegoro University, Indonesia, <sup>2</sup>University 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 Ao<sup>1</sup>, Hidemi Tsuji<sup>2</sup>, Yuki Kosaka<sup>1</sup>, Akari Noda<sup>1</sup>, Hiroshi Nakase<sup>3</sup>, Kenichiro Shide<sup>2</sup>, Tsutomu Chiba<sup>3</sup>, Nobuya Inagaki<sup>3</sup>, Kiyoshi Tanaka<sup>1</sup>  
<sup>1</sup>Kyoto Women's University, Japan, <sup>2</sup>Kyoto University Hospital, Japan, <sup>3</sup>Kyoto University, Japan
- OS08-2 The effect of dietary omega-6/omega-3 fatty acid ratio on muscle mass in hemodialysis patients**  
 Te Chih Jim Wong<sup>1</sup>, Yu Tong Chen<sup>1</sup>, Pei Yu Wu<sup>1</sup>, His Hsien Chen<sup>2</sup>, Tso Hsiao Chen<sup>1</sup>, Shwu Huey Yang<sup>1</sup>  
<sup>1</sup>Taipei Medical University, Taiwan, <sup>2</sup>Taipei Medical University Hospital, Taiwan
- OS08-4 Effect of L-theanine on glutamatergic function in patients with schizophrenia**  
 Miho Ota<sup>1</sup>, Chisato Wakabayashi<sup>1</sup>, Kotaro Hattori<sup>1</sup>, Toshiya Teraishi<sup>1</sup>, Hiroshi Kunugi<sup>1</sup>, Hayato Ozawa<sup>2</sup>, Tsutomu Okubo<sup>2</sup>  
<sup>1</sup>National Center of Neurology and Psychiatry, Japan, <sup>2</sup>Taiyo 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 Ismail<sup>1</sup>, Laila Ahmed El-Bedewe<sup>2</sup>, Ali Mahmoud El-Shafie<sup>2</sup>, Nahla Hassan Gad<sup>2</sup>  
<sup>1</sup>Dammam University, Saudi Arabia, <sup>2</sup>Minufiya 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 Primadiyanti  
*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. Satoh<sup>1</sup>, Noriaki Shoji<sup>1</sup>, Misako Kawai<sup>2</sup>, Hisayuki Uneyama<sup>2</sup>, Takashi Sasano<sup>1</sup>  
<sup>1</sup>Tohoku University, Japan, <sup>2</sup>Ajinomoto Co., Inc., Japan

### 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<sup>1</sup>, Shingo Goto<sup>1</sup>, Ai Egusa Saiga<sup>1</sup>, Yukiko Takakura<sup>2</sup>  
<sup>1</sup>*Nippon Veterinary and Life Science University, Japan*, <sup>2</sup>*Ajinomoto Co., Japan*
- OS09-2 Sulfur-containing volatiles of durian activate the thermogenesis-inducing receptors TRPA1 and TRPV1**  
 Yuko Terada<sup>1</sup>, Takashi Hosono<sup>2</sup>, Taiichiro Seki<sup>2</sup>, Toyohiko Ariga<sup>2</sup>, Sohei Ito<sup>1</sup>, Masataka Narukawa<sup>1</sup>, Tatsuo Watanabe<sup>1</sup>  
<sup>1</sup>*University of Shizuoka, Japan*, <sup>2</sup>*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 Iwakiri  
*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<sup>1</sup>, Manaka Hanate<sup>1</sup>, Jia Huijuan<sup>1</sup>, Aw Wanping<sup>2</sup>, Yukio Hasebe<sup>3</sup>, Shinji Fukuda<sup>2</sup>, Masaru Tomita<sup>2</sup>, Hisanori Kato<sup>1</sup>  
<sup>1</sup>*The University of Tokyo, Japan*, <sup>2</sup>*Keio University, Japan*, <sup>3</sup>*ALMADO inc., Japan*
- OS09-5 Prolyl-hydroxyproline Contributes to the Effects of Dietary Collagen on Gene Expression in the Skin**  
 Phuong Le Vu<sup>1</sup>, Ryo Takatori<sup>1</sup>, Taku Iwamoto<sup>1</sup>, Yutaka Akagi<sup>1</sup>, Hideo Satsu<sup>1,2</sup>, Mamoru Totsuka<sup>1</sup>, Kazuhiro Chida<sup>1</sup>, Kenji Sato<sup>3</sup>, Makoto Shimizu<sup>1,4</sup>  
<sup>1</sup>*The University of Tokyo, Japan*, <sup>2</sup>*Maebashi Institute of Technology, Japan*, <sup>3</sup>*Kyoto Prefectural University, Japan*, <sup>4</sup>*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<sup>1,2</sup>, Tomomi Sano<sup>1</sup>, Tatsuyuki Midorikawa<sup>1</sup>, Michiaki Murakoshi<sup>1,3</sup>, Keikichi Sugiyama<sup>1,4</sup>, Hoyoku Nishino<sup>3,4</sup>, Yoshihiro Urade<sup>2</sup>  
<sup>1</sup>*Lion Corporation, Japan*, <sup>2</sup>*WPI-IIS University of Tsukuba, Japan*, <sup>3</sup>*Kyoto Prefectural University of Medicine, Japan*, <sup>4</sup>*Ritsumeikan University, Japan*

## 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<sup>1</sup>, Yukina Kato<sup>1</sup>, Hiroshi Shimoda<sup>2</sup>, Masaya Shimada<sup>1</sup>, Satoshi Nagaoka<sup>1</sup>  
<sup>1</sup>*Gifu University, Japan*, <sup>2</sup>*Oryza 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<sup>1</sup>, Shunji Kato<sup>1</sup>, Fumiko Kimura<sup>1</sup>, Kiyotaka Nakagawa<sup>1</sup>, Katsuhiko Izumisawa<sup>2</sup>, Teruo Miyazawa<sup>1</sup>  
<sup>1</sup>*Tohoku University, Japan*, <sup>2</sup>*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 Murota<sup>1</sup>, Mika Takagi<sup>1</sup>, Kumamoto Shun<sup>1</sup>, Okubo Takeshi<sup>2</sup>, Tokumura Akira<sup>3</sup>  
*<sup>1</sup>Kinki University, Japan, <sup>2</sup>NOF Corporation, <sup>3</sup>Yasuda Women's University, Japan*
- OS10-5 The effect of hydroxy and oxo fatty acids generated by *Lactobacillus plantarum* on oxidative stress**  
Hidehiro Furumoto<sup>1</sup>, Tharnath Nanthirudjanar<sup>1</sup>, Kume Toshiaki<sup>1</sup>, Si-Bum Park<sup>1</sup>, Nahoko Kitamura<sup>1</sup>, Shigenobu Kishino<sup>1</sup>, Jun Ogawa<sup>1</sup>, Takashi Hirata<sup>1,2</sup>, Tatsuya Sugawara<sup>1</sup>  
*<sup>1</sup>Kyoto University, Japan, <sup>2</sup>Shijonawate Gakuen University, Japan*
- OS10-6 Trans-octadecenoic acid positional isomers have different accumulation and catabolism properties in mice**  
Fumiaki Beppu<sup>1</sup>, Masaharu Asanuma<sup>1</sup>, Yoshinori Kawamura<sup>1</sup>, Toshiharu Nagai<sup>2</sup>, Kazuaki Yoshinaga<sup>2</sup>, Hoyo Mizobe<sup>2</sup>, Koichi Kojima<sup>2</sup>, Naohiro Gotoh<sup>1</sup>, Naohiro Gotoh<sup>1</sup>  
*<sup>1</sup>Tokyo University of Marine Science and Technology, Japan, <sup>2</sup>Tsukushima Foods Industry Co. Ltd., Japan*
- OS10-7 Polyunsaturated fatty acids in lipoproteins stimulate neurite outgrowth of hippocampal neurons**  
Michinori Matsuo<sup>1</sup>, Mitsuhiro Nakato<sup>2</sup>, Kazumitsu Ueda<sup>2</sup>  
*<sup>1</sup>Kyoto Women's University, Japan, <sup>2</sup>Kyoto 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 Fu<sup>1</sup>, Akiko Kimoto<sup>1</sup>, Aimi Osaki<sup>1</sup>, Hanae Izu<sup>2</sup>, Tsutomu Fujii<sup>2</sup>, Norihisa Kato<sup>1</sup>  
*<sup>1</sup>Hiroshima University, Japan, <sup>2</sup>National 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 Takase<sup>1,2</sup>, Miki Igarashi<sup>1</sup>, Noriaki Yamaguchi<sup>2</sup>, Toshinao Goda<sup>1</sup>, Kazuhito Suruga<sup>2</sup>  
*<sup>1</sup>The University of Shizuoka, Japan, <sup>2</sup>University 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 Aw<sup>1,2</sup>, Huijuan Jia<sup>1</sup>, Shinji Fukuda<sup>2</sup>, Manaka Hanate<sup>1</sup>, Masaru Tomita<sup>2</sup>, Hisanori Kato<sup>1</sup>  
*<sup>1</sup>The University of Tokyo, Japan, <sup>2</sup>Keio University, Japan*
- OS11-4 Hepatic genome-wide expression of lipid metabolism in diet-induced obesity rats -treated with cocoa polyphenols**  
Faisal Hassan Ali<sup>1</sup>, Amin Ismail<sup>1</sup>, Norhaizan Essa<sup>1</sup>, Chong Pei<sup>2</sup>, Sander Kersten<sup>3</sup>  
*<sup>1</sup>Universiti Putra Malaysia, Malaysia, <sup>2</sup>Wageningen 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*