

## 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*

## Program (May 16)

- OS11-6**      **A Common Variant in the FTO Gene and Macronutrient Intake is Associated with Obesity Risk Among Filipino Adults**  
 Jacus S. Nacis<sup>1</sup>, Frances Isabelle B. Jacalan<sup>1</sup>, Marietta P. Rodriguez<sup>1</sup>, Celeste C. Tanchoco<sup>2</sup>, Mina Grace C. Aquino<sup>1</sup>  
<sup>1</sup>Food and Nutrition Research Institute, Philippines, <sup>2</sup>Nutritionist-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 Nagai<sup>1</sup>, Naoko Motokukbota<sup>1</sup>, Naho Komai<sup>1</sup>, Mitsue Yamaguchi<sup>2</sup>, Kokoro Tsuzaki<sup>3</sup>, Kazuhiko Kotani<sup>4</sup>, Naoki Sakane<sup>3</sup>, Toshio Moritani<sup>5</sup>  
<sup>1</sup>University of Hyogo, Japan, <sup>2</sup>Yamagata Prefectural Yonezawa University, Japan, <sup>3</sup>Kyoto Medical Center, Japan, <sup>4</sup>Jichi Medical University, Japan, <sup>5</sup>Kyoto 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 Damuluri<sup>1</sup>, Sudershan Rao Vemula<sup>2</sup>  
<sup>1</sup>Eesavyasa Technologies Private Ltd, India, <sup>2</sup>National 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, Wandee Tartrakoon  
*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 Khalid<sup>1,2</sup>, Isao Kobayashi<sup>1</sup>, Marcos A. Neves<sup>1,3</sup>, Kunihiro Uemura<sup>1</sup>, Mitsutoshi Nakajima<sup>1,3</sup>, Hiroshi Nabetani<sup>1,2</sup>  
<sup>1</sup>National Food Research Institute, Japan, <sup>2</sup>The University of Tokyo, Japan, <sup>3</sup>University 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 Thanh<sup>1</sup>, Ho Thuy Dung<sup>1</sup>, Hoang Nguyen Dzung<sup>2</sup>  
<sup>1</sup>Industrial University of Industry, Viet Nam, <sup>2</sup>Ho 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 B<sub>12</sub> 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 inflammasome activation**  
Peipei Zhang<sup>1</sup>, Takeshi Kinoshita<sup>1</sup>, Hiroko Kushiya<sup>1</sup>, Sofya Suidasari<sup>2</sup>, Norihisa Kato<sup>2</sup>, Takashi Suda<sup>1</sup>  
<sup>1</sup>*Kanazawa University, Japan*, <sup>2</sup>*Hiroshima University, Japan*
- OS13-4 Effect of vitamin B6 on the expression of IGFbps, 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 Kaneko<sup>1</sup>, Jui-Cheng Hsieh<sup>2</sup>, G. Kerr Whitfield<sup>2</sup>, Hiroko Segawa<sup>1</sup>, Ken-ichi Miyamoto<sup>1</sup>, Mark R. Haussler<sup>2</sup>, Peter W. Jurutka<sup>2,3</sup>  
<sup>1</sup>*University of Tokushima, Japan*, <sup>2</sup>*University of Arizona College of Medicine, USA*, <sup>3</sup>*Arizona 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 Manabe<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*
- OS14-2 Vulnerability to anxiety- and depression-like behavior during adolescence in vitamin C-depleted mice**  
Miwako Koizumi<sup>1</sup>, Yoshitaka Kondo<sup>2</sup>, Ayumi Isaka<sup>1</sup>, Akihito Ishigami<sup>2</sup>, Emiko Suzuki<sup>1</sup>  
<sup>1</sup>*Ochanomizu University, Japan*, <sup>2</sup>*Tokyo 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 Irsan<sup>1</sup>, Ahmad - Sulaeman<sup>2</sup>, Rizal - Damanik<sup>2</sup>, Tri Budi Rahardjo<sup>3</sup>, Eef - Hogervorst<sup>4</sup>, Hardinsyah - Hardinsyah<sup>2</sup>  
<sup>1</sup>*Universitas Respati Indonesia (URINDO), Indonesia*, <sup>2</sup>*Institut Pertanian Bogor (IPB), Indonesia*, <sup>3</sup>*Universitas Indonesia (UI), Indonesia*, <sup>4</sup>*Loughborough University, UK*
- OS14-5 Thiamine deficiency impairs hippocampus-dependent memory and spine density of hippocampal neurons**  
Satoshi Kida<sup>1,2</sup>, Takuya Kishimoto<sup>1</sup>, Satoru Ohishi<sup>1</sup>, Kan Nagata<sup>1</sup>, Tamae Watanabe<sup>1</sup>, Shunsuke Hasegawa<sup>1</sup>  
<sup>1</sup>*Tokyo University of Agriculture, Japan*, <sup>2</sup>*JST. CREST, Japan*

## Program (May 16)

- OS14-6**      **Reduced cerebrospinal fluid ethanolamine concentration in major depressive disorder**  
Shintaro Ogawa<sup>1,4</sup>, Kotaro Hattori<sup>1</sup>, Daimei Sasayama<sup>1,2</sup>, Yuki Yokota<sup>1</sup>, Ryo Matsumura<sup>1</sup>, Junko Matsuo<sup>1,4</sup>, Miho Ota<sup>1</sup>, Hiroaki Hori<sup>1</sup>, Toshiya Teraishi<sup>1</sup>, Sumiko Yoshida<sup>1</sup>, Takamasa Noda<sup>1</sup>, Yoshiaki Ohashi<sup>3</sup>, Hajime Sato<sup>3</sup>, Teruhiko Higuchi<sup>1</sup>, Nobutaka Motohashi<sup>4</sup>, Hiroshi Kunugi<sup>1</sup>  
*<sup>1</sup>National Center of Neurology and Psychiatry, Japan, <sup>2</sup>Shinshu University School of Medicine, Japan, <sup>3</sup>Human Metabolome Technologies, Inc., Japan, <sup>4</sup>University of Yamanashi, Japan*
- OS14-7**      **The Protective Effect of Ketogenic Diet on Cognitive Function Is Related to Inhibiting Inflammation in the Hippocampus**  
Tien-Jui Lee<sup>1</sup>, Kimberly P. Kinzig<sup>1</sup>, Sara L. Hargrave<sup>2</sup>  
*<sup>1</sup>Purdue University, USA, <sup>2</sup>American 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 Multination 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 Kim<sup>1</sup>, Ji Sook Kong<sup>1</sup>, Soo-Kyung Lee<sup>2</sup>, Kyung Won Kim<sup>3</sup>  
*<sup>1</sup>National Cancer Center, Korea, <sup>2</sup>Inha University, Korea, <sup>3</sup>Seoul Women's University, Korea*
- OS15-4**      **Development of an Electronic Food Diary to assess dietary intake among young adults**  
Wong Jyh Eiin<sup>1</sup>, Yoke San Chen<sup>1</sup>, Nor Effendy Othman<sup>1</sup>, Bee Koon Poh<sup>1</sup>  
*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 Chumpathat<sup>1,2</sup>, Ram Rangsin<sup>3</sup>, Ngamphol Soonthornworasiri<sup>1</sup>, Supranee Changbumrung<sup>1</sup>, Vanida Durongritichai<sup>2</sup>, Karunee Kwanbunjan<sup>1</sup>  
*<sup>1</sup>Mahidol University, Thailand, <sup>2</sup>Huachiew Chalermprakiet University, Thailand, <sup>3</sup>Phramongkutklao 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 Sato<sup>1</sup>, Akihito Morita<sup>1</sup>, Nobuko Mori<sup>2</sup>, Shinji Miura<sup>1</sup>  
*<sup>1</sup>University of Shizuoka, Japan, <sup>2</sup>Osaka Prefecture University, Japan*

## Program (May 16)

- OS16-3 Novel function of adenosine monophosphate to improve metabolic related-diseases in SHRSP**  
Ardy Ardiansyah<sup>1</sup>, Hitoshi Shirakawa<sup>2</sup>, Takuya Koseki<sup>3</sup>, Kazuyuki Hiwatashi<sup>4</sup>, Saori Takahashi<sup>4</sup>, Yoshinobu Akiyama<sup>5</sup>, Michio Komai<sup>2</sup>  
<sup>1</sup>Universitas Bakrie, Indonesia, <sup>2</sup>Tohoku University, Japan, <sup>3</sup>Yamagata University, Japan, <sup>4</sup>Akita Research Institute for Food and Brewing, Japan, <sup>5</sup>Akita 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 Insuan<sup>1</sup>, Sittiruk Roytrakul<sup>2</sup>, Narissara Lailerd<sup>1</sup>, Rawiwan Wongpoomchai<sup>1</sup>  
<sup>1</sup>Chiang Mai University, Thailand, <sup>2</sup>National 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. Oyong<sup>1</sup>, Gliceria D. Ramos<sup>1</sup>, Esperanza Maribel G. Agoo<sup>1</sup>, Ma. Carmen S. Tan<sup>2</sup>, Naser Jafari<sup>2,3</sup>, Esperanza C. Cabrera<sup>1</sup>  
<sup>1</sup>De La Salle University, Philippines, <sup>2</sup>Ardabil University of Medical Science, Iran, <sup>3</sup>University 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. Nugara<sup>1,2</sup>, Masashi Inafuku<sup>2</sup>, Kensaku Takara<sup>2</sup>, Hironori Iwasaki<sup>2</sup>, Hirotsuke Oku<sup>2</sup>  
<sup>1</sup>Kagoshima University, Japan, <sup>2</sup>University of the Ryukyus, Japan

### Oral Session 17

Room: 301

#### 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 Komiya<sup>1</sup>, Tsuyoshi Goto<sup>2</sup>, Nobuyuki Takahashi<sup>2</sup>, Teruo Kawada<sup>2</sup>, Mako Nakamura<sup>1</sup>, Ryuichi Tatsumi<sup>1</sup>, Yoshihide Ikeuchi<sup>1</sup>, Wataru Mizunoya<sup>1</sup>  
<sup>1</sup>Kyushu University, Japan, <sup>2</sup>Kyoto University, Japan
- OS17-2 PGC1alpha regulates branched-chain amino acid metabolism in the skeletal muscle**  
Yukino Hatazawa<sup>1</sup>, Miki Tadaishi<sup>2</sup>, Yoshihiro Ogawa<sup>3</sup>, Osamu Ezaki<sup>4</sup>, Yasuyuki Kitaura<sup>5</sup>, Yoshiharu Shimomura<sup>5</sup>, Yasutomi Kamei<sup>1</sup>, Shinji Miura<sup>6</sup>  
<sup>1</sup>Kyoto Prefectural University, Japan, <sup>2</sup>National Institute of Health and Nutrition, Japan, <sup>3</sup>Tokyo Medical and Dental University, Japan, <sup>4</sup>Showa Women's University, Japan, <sup>5</sup>Nagoya University, Japan, <sup>6</sup>University of Shizuoka, Japan
- OS17-3 Functions of AMPK and PPARγ for exercise-induced LPL in skeletal muscle**  
Takashi Sasaki<sup>1</sup>, Rieko Nakata<sup>2</sup>, Hiroyasu Inoue<sup>2</sup>, Makoto Shimizu<sup>1</sup>, Jun Inoue<sup>1</sup>, Ryuichiro Sato<sup>1</sup>  
<sup>1</sup>University of Tokyo, Japan, <sup>2</sup>Nara Women's University, Japan
- OS17-4 Feeding rhythm during active phase influences hypothalamic regulation of insulin sensitivity in skeletal muscle**  
Tetsuya Shiuchi<sup>1,2</sup>, Airi Otsuka<sup>1</sup>, Sachiko Chikahisa<sup>1</sup>, Noriyuki Shimizu<sup>1</sup>, Hiroyoshi Sei<sup>1</sup>  
<sup>1</sup>The University of Tokushima, Japan, <sup>2</sup>PRESTO, JST, Japan
- OS17-5 Body weight lowering effect of Piper nigrum Linn extracts on HFD induced SD obese rats, A non-invasive study**  
Harishankar Nemani<sup>1</sup>, Sailaja Pothana<sup>2</sup>  
<sup>1</sup>National Centre for Laboratory Animal Science, National Institute of Nutrition, India, <sup>2</sup>S.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. Gubat<sup>1,2</sup>, Jacus S. Nacis<sup>1,2</sup>, Mildred A. Udarbe<sup>1,2</sup>, Edward Vincent J. Magtibay<sup>1,2</sup>, Noelle Lyn C. Santos<sup>1,2</sup>, Vanessa Joy A. Timoteo<sup>1,2</sup>, Maritess V. Alibayan<sup>1,2</sup>  
<sup>1</sup>Food and Nutrition Research Institute, Philippines, <sup>2</sup>Department of Science and Technology



## Program (May 16)

- 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

Chairperson: **Hidemi Takimoto** (*National Institute of Health and Nutrition*)  
**Ilse Khouw** (*FrieslandCampina Development Centre, Singapore*)

- 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 Kimura<sup>1</sup>, Isao Yamazaki<sup>1</sup>, Nakagawa Kiyotaka<sup>1</sup>, Kunihiko Nakai<sup>1</sup>, Terue Kawabata<sup>2</sup>, Yasuo Kagawa<sup>2</sup>, Shoji Saitoh<sup>1,3</sup>, Satoshi Mizuno<sup>1</sup>, Nobuo Yaegashi<sup>1</sup>, Takahiro Arima<sup>1</sup>, Teruo Miyazawa<sup>1</sup>  
<sup>1</sup>Tohoku University, Japan, <sup>2</sup>Kagawa Nutrition University, Japan, <sup>3</sup>Yamagata Prefectural Central Hospital, Japan
- OS18-3** **Qualitative Research to Understand Caregiver Feeding Behaviors and Attitudes in Rural Bangladesh**  
 Zaynah T. Chowdhury<sup>1</sup>, Kristen M. Hurley<sup>1</sup>, Mousumi Jahan<sup>2</sup>, Stephen Kodish<sup>1</sup>, Saijuddin Shaikh<sup>1,2</sup>, Sucheta Mehra<sup>1</sup>, Keith P. West Jr.<sup>1</sup>, Christian Parul<sup>1</sup>  
<sup>1</sup>Johns Hopkins Bloomberg School of Public Health, USA, <sup>2</sup>JiVitA Project, Bangladesh
- OS18-4** **Dairy Consumption And Its Relation To Nutritional Status In The South East Asian Nutrition Survey (SEANUTS)**  
 Ilse Khouw<sup>1</sup>, Nipa Rojroongwasinkul<sup>2</sup>, Bao Khanh Le Nguyen<sup>3</sup>, Sandjaja Sandjaja<sup>4</sup>, Bee Koon Poh<sup>5</sup>, Paul Deurenberg<sup>6</sup>, Marjolijn Bragt<sup>1</sup>  
<sup>1</sup>FrieslandCampina Development Centre AMEA, Singapore, <sup>2</sup>Mahidol University, Thailand, <sup>3</sup>National Institute of Nutrition, <sup>4</sup>Persatuan Ahli Gizi Indonesia, <sup>5</sup>Universiti Kebangsaan Malaysia, <sup>6</sup>Nutrition 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. Tung<sup>1</sup>, Xiau Huey Ng<sup>1</sup>, Mohd Nasir - Mohd Taib<sup>2</sup>  
<sup>1</sup>UCSI University, Malaysia, <sup>2</sup>Universiti Putra Malaysia, Malaysia

### Oral Session 19

Room: 311+312

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

Chairperson: **Asako Takenaka** (*Meiji University, Japan*)  
**Yasuyuki Kitaura** (*Nagoya University, Japan*)

- OS19-1** **Profile of Individual Phenolics in Rice (*Oryza sativa*): Varietal Differences, Compounds Distribution and Composition Changes in Grains during Rice Production**  
 Widiastuti Setyaningsih<sup>1,2</sup>, Nikmatul Hidayah<sup>3</sup>, Miguel Palma<sup>2</sup>, Carmelo G. Barroso<sup>2</sup>  
<sup>1</sup>Gadjah Mada University, Indonesia, <sup>2</sup>University of Cadiz, Spain, <sup>3</sup>Indonesian Center of Agricultural Postharvest Research and Development, Indonesia
- OS19-2** **Effect of branched-chain amino acids on insulin secretion during feeding**  
 Mami Horiuchi<sup>1</sup>, Tomoya Takeda<sup>1</sup>, Yori Ozaki<sup>1</sup>, Fumihiko Hakuno<sup>2</sup>, Shin-Ichiro Takahashi<sup>2</sup>, Asako Takenaka<sup>1</sup>  
<sup>1</sup>Meiji University, Japan, <sup>2</sup>The 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 Oji<sup>1</sup>, Norio Yamamoto<sup>3</sup>, Mamoru Totsuka<sup>1</sup>, Hideo Satsu<sup>2</sup>  
<sup>1</sup>The University of Tokyo, Japan, <sup>2</sup>Maebashi Institute of Technolog, Japan, <sup>3</sup>House 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-1 $\alpha$  on branched chain amino acid intake in mice**  
 Ryoji Yoshimura<sup>1,2</sup>, Kimiko Minami<sup>1</sup>, Yasutomi Kamei<sup>1</sup>  
<sup>1</sup>Kyoto Prefectural University, Japan, <sup>2</sup>Research 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 Kagawa<sup>1</sup>, Tomoko Imai<sup>2</sup>, Satomi Maruyama<sup>3</sup>, Toru Takahashi<sup>4</sup>, Hatsuko Yamamoto<sup>5</sup>, Hayato Uchida<sup>6</sup>, Michiko Koda<sup>7</sup>, Hiromi Hirata<sup>1</sup>  
<sup>1</sup>Kagawa Nutrition University, Japan, <sup>2</sup>Doshisha Women's College of Liberal Arts, Japan, <sup>3</sup>Kinjo Gakuin University, Japan, <sup>4</sup>Fukuoka Women's University, Japan, <sup>5</sup>Kiryu University, Japan, <sup>6</sup>University of Hyogo, Japan, <sup>7</sup>Chubu University, Japan
- OS20-3 Socioeconomic Status-Dependent Associations Between Life Style and Metabolic Syndrome : Urban Area In Indonesia (2007 Riskesdas Data Analysis)**  
 Nurhaedar Jafar<sup>1</sup>, Abdul Razak Thaha<sup>1</sup>, Sitti Khadijah Hamid<sup>1</sup>, Veni Hadju<sup>1</sup>, Baharuddin Semmaila<sup>2</sup>  
<sup>1</sup>Hasanuddin University, Indonesia, <sup>2</sup>Universitas 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-Rimbau<sup>1,2</sup>, Eric B Rimm<sup>3,4,5</sup>, Alexander Medina-Reimon<sup>2,6</sup>, Miguel A Martinez-Gonzalez<sup>2,7</sup>, Ramon Estruch<sup>2,6</sup>, Rosa M Lamuela-Raventos<sup>1,2</sup>  
<sup>1</sup>University of Barcelona, Spain., <sup>2</sup>Instituto de Salud Carlos III, Spain., <sup>3</sup>Brigham and Women's Hospital, USA, <sup>4</sup>Harvard Medical School, USA, <sup>5</sup>Harvard School of Public Health, USA, <sup>6</sup>Hospital Clinic, Spain, <sup>7</sup>University of Navarra, Spain
- OS20-5 Significance of historical height loss in the nutritional assessment of the elderly**  
 Kiyoshi Tanaka<sup>1</sup>, Akiko Kuwabara<sup>2</sup>, Junko Ohta<sup>1</sup>, Momoyo Seki<sup>1</sup>, Rina Okajima<sup>1</sup>, Tetsuya Sato<sup>3</sup>, Kousei Yoh<sup>4</sup>  
<sup>1</sup>Kyoto Women's University, Japan, <sup>2</sup>Osaka Shoin Women's University, Japan, <sup>3</sup>Sato Orthopaedic Clinic, Japan, <sup>4</sup>Aino Hospital, Japan