

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 ovariectomized rat**
 Wan-Chun Chiu¹, Yen-Shou Chiu^{1,2}, Chi-Chang Huang², 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-Takuwa, 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 Tujioka¹, Takashi Yamada², Hidehiko Yokogoshi², Saori Akiduki³, Yukihiko 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 thyroidectomized(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, Masaki Okamoto, Yuka Kanatani, Mitsue Sano, Katsumi Shibata, Tsutomu Fukuwatari
 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 Tani², Yuko Ishizaka², Minoru Yamakado²
¹Ajinomoto Co., Inc., Japan, ²Mitsui Memorial Hospital, Japan

Program

- 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 enteroendocrine 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 Hirouchi¹, Satoshi Numata¹, Ayuka Tagashira⁴, 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 administered 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, Iwao 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 Konishi^{2,3}, Yusuke Sauchi², Wataru Aoi³, Sayori Wada³, Eun Young Park³, Yasushi Nakamura³, 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 Takahashi², 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**
Sayaka Yamamoto, Toshiko Suzuki-Yamamoto, Arisa Ito, Suzuko Kaminoura, Yuuki Kawakami, Hiromi Yamashita, Hitomi Hatakenaka, Yoshitaka Takahashi, Masumi Kimoto
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 Murakami², 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 Shimmura
Nagoya University, Japan
- PS-02-a-031 Effects of enhanced BCAA catabolism induced by branched-chain alpha-ketoacid dehydrogenase (BCKDH) 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 Nakao^{1,2}, Ayako Maita¹, Shigetada Kondo¹, Tomoki Abe¹, Hisao Nemoto¹, Takeshi Nikawa¹
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, Michiyo 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 (BCKDH) 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 Ryo, 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 Ogawa^{1,2}, Chikage Goto¹, Noriko Sakoi¹, Kanako Shimizu¹, Kohsuke Hayamizu³, Yukiko Kobayashi¹, Masashi Kuwahata¹, Yasuhiro Kido¹
¹*Kyoto Prefectural University, Japan*, ²*Kyoto College of Nutritional & Medical Sciences, Taiwa Gakuen Education INC., Japan*, ³*Nippon 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
¹*Kyoto Prefectural University, Japan*, ²*Kyoto 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 Hashimoto³, Yukikazu Harada³, Michihiro Hosojima¹, Akihiko Sito¹, Shinobu Fujimura¹, Motoni Kadowaki¹
¹*Niigata University, Japan*, ²*University of Niigata Prefecture, Japan*, ³*Tsuno 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 Fujii⁴, Shinobu Fujimura¹, Motoni Kadowaki¹
¹*Niigata University, Japan*, ²*Shinshu University, Japan*, ³*The University of Tokyo, Japan*, ⁴*Kameda 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
¹*Nagoya Bunri University, Japan*, ²*The 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
¹*Ehime University, Japan*, ²*Nippon 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
¹*Ehime University, Japan*, ²*Nippon 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**
Tsuyoshi 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 Fukuwatari
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
¹*University of Miyazaki, Japan*, ²*Megmilk Snow Brand Co., Ltd., Japan*

Program

- PS-02-a-051 The intestinal epithelial cell damage is caused by histidine deficiency**
Tomoka Fujita¹, Tatsunobu Matsui¹, Kazuhiro Misumi¹, 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 Hokoyama, Kanako Wakamura, Ryo Kakutani, Hiroko Yatsunami, 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 Kataoka², Fumihito Sugihara², 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 Matsui¹, Ayaka Wada², Tomoka Fujita¹, Kazuhiro Misumi¹, 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 Esaki^{1,2}, Kazuki Moriyasu¹, Takashi Ichinose¹, Yasuhiro Shimizu¹, Yutaka Kawarabayashi¹, Yosio Hirabayashi², Shigeki Furuya¹
¹Kyushu University, Japan, ²RIKEN Brain Science Institute, Japan
- PS-02-a-057 Disruption of sphingolipid homeostasis by L-serine deficiency**
Kayoko Esaki^{1,2}, Chiaki Sonoda², Takashi Suzuki², Tomoko Sayano^{1,2}, 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 Somoto¹, Eri Mitsuyama¹, Azusa Tanaka¹, Naoki Yuda¹, Akio Yamada¹, Koji Yamauchi¹, Fumiaki Abe¹, Takashi Nagasawa²
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 Oishi³, Koichi Yasunaga³, Makoto Satoh¹, Kumpei Tokuyama¹
¹University of Tsukuba, Japan, ²Tokyo Seiei College, Japan, ³Kao Corporation, Japan

Program

- 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 Masanori^{4,5}, Katsuike Hirokawa^{4,5}, Tsuyoshi 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, Erniel 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 To¹, 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 Ogushi², Guihua Chi¹, Kumiko Kitano², Toshinori Kameoka³, Yoshihisa Nakano^{2,4}, Yuji Murata¹
¹Saraya Co., Ltd., Japan, ²Osaka Prefecture University, Japan, ³Biogas Systems Research Association, Japan, ⁴Osaka Women's Junior College, Japan
- PS-02-a-072 Modulation of rat macrophage functions by isomaltomegalosaccharides**
Gahyun Joe¹, Aki Shinoki¹, Yuya Kumagai¹, Atsuo Kimura¹, Kazumi Funane², Hidehisa Shimizu¹, Hiroshi Hara¹, Satoshi Ishizuka¹
¹Hokkaido University, Japan, ²National Food Research Institute, Japan
- PS-02-a-073 Antiallergic effect of stem lettuce on experimental allergic disease model in mice**
Yukio Sugimoto¹, Miki Terasaki¹, Sachi Kohno¹, Minami Sawai¹, Qui E Zhao³, Natsuki Ganeko², Hideyuki Ito²
¹Okayama University, Japan, ²Okayama Prefectural University, Japan, ³Ohmori Health Care Company, Japan
- PS-02-a-074 Effect of L-Histidine and L-Carnosine on Gene Expression of Histidine Decarboxylase and Allergy Related Cytokines in Mast Cell Line RBL-2H3**
Yoko Tsumaki, Yoko Torii, Kentaro Sakai
Hiroshima Jogakuin University, Japan
- PS-02-a-075 Short term oral immunotherapy does not reduce allergic response in mild allergy model mice of ovomucoid in egg white**
Akihiro Maeta, Mayuko Kaji, Minami Nagaishi, Aoi Hirakawa, Kyoko Takahashi
Mukogawa University, Japan

Program

- PS-02-a-076 Inhibitory effect of soy isoflavone on 2,4-dinitrofluorobenzene-induced contact hypersensitivity in mice**
Takao Nagano¹, Wurina Wu¹, Yuanyuan Bai¹, Hiroko Yonemoto-Yano², Kazunobu Tsumura², Tomoari Kamada³, Ken Haruma³
¹Kawasaki University of Medical Welfare, Japan, ²Fuji Oil Co., Japan, ³Kawasaki Medical School, Japan
- PS-02-a-077 Beta-cryptoxanthin Improves Hepatic Insulin Resistance and Inflammation Through an M2-dominant Shift of Macrophages in Diet-induced Nonalcoholic Fatty Liver Disease**
Fen Zhuge, Yinhua Ni, Mayumi Nagashimada, Naoto Nagata, Shuichi Kaneko, Tsuguhito Ota
Kanazawa University, Japan
- PS-02-a-078 Variation in salivary secretory immunoglobulin A during summer in long-distance runners**
Kayoko Yamazaki, Rena Takeda, Chiaki Yamashita, Naoko Komenami
Kyoto Women's University, Japan
- PS-02-a-079 Pilot clinical study to evaluate the immune enhancing activity of fucoidan mix**
Yoshiyuki Miyazaki^{1,2}, Masaji Nakamizo³, Tomomi Kirino³, Chisato Yamaguchi³, Hirofumi Tachibana¹, Koji Yamada¹
¹Kyushu University, Japan, ²NPO Research Institute of Fucoidan, Japan, ³Ventuno Co., Ltd., Japan
- PS-02-a-080 Elevation of Cecal IgA Concentration by Fructooligosaccharide Ingestion Is Associated with Immunological and Inflammatory Responses in Rats**
Tomomi Genda¹, Yuta Sasaki¹, Shingo Hino¹, Kei Sonoyama², Tatsuya Morita¹
¹Shizuoka University, Japan, ²Hokkaido, Japan
- PS-02-a-081 The mechanism by which egg white allergen, L-PGDS increases serum OVA-IgE level in OVA-sensitized mice**
Makiko Suzuki¹, Shiho Nakanishi¹, Aoi Yoshino¹, Ryosuke Morimoto²
¹University of Kochi, Japan, ²Okayama Prefectural University, Japan
- PS-02-a-082 Wild bitter gourd extracts promote regulatory T cells differentiation**
Hsueh-Yun Lu, Bi-Fong Lin
National Taiwan University, Taiwan
- PS-02-a-083 A novel mechanism for Resveratrol-mediated inhibition of FcepsilonRI early signaling that involves the dissociation of the oligomeric receptor structure**
Mayu Ogawa, Tomoko Ishikawa, Ikuyo Ichi, Yoko Fujiwara, Zen-Ichiro Honda
Ochanomizu University, Japan
- PS-02-a-084 Zinc deficiency aggravates intestinal inflammation through the regulation of macrophage polarization**
Yasuki Higashimura, Yuji Naito, Tomohisa Takagi, Katsura Mizushima, Toshikazu Yoshikawa
Kyoto Prefectural University of Medicine, Japan
- PS-02-a-085 The Effect of Folate Deficiency on pro-inflammatory cytokines by macrophage and Th1/Th2 cytokines secretion by T cells**
Chien-Wei Lee, Chi-Heng Wu, Bi-Fong Lin
National Taiwan University, Taiwan
- PS-02-a-086 Anti-tumor activity of cell wall of Enterococcus faecalis strain KH-2 in murine model through the stimulation of systemic immune activity**
Takamitsu Tsukahara¹, Shin-ichi Nakamura¹, Tatsuhiko Kan², Makoto Ohwaki³, Takaharu Yanagisawa⁴
¹Kyoto Institute of Nutrition & Pathology, Japan, ²Bio-Lab. Co., Ltd, Japan, ³The Japanese Association of Clinical Research on Supplements, Japan, ⁴Broma Laboratory Ltd., Japan
- PS-02-a-087 Folate deficiency reduces serum IL-12p70, IFN-gamma and pro-inflammatory cytokine levels and delays endotoxic shock in lipopolysaccharide-induced inflammation in mice**
Chi-Heng Wu, Bi-Fong Lin
National Taiwan University, Taiwan
- PS-02-a-088 The effect of folate status on proinflammatory cytokines expression in the kidney of high-fat diet-induced obese C57BL/6 mice**
Xiang Lin Koh, Bi-Fong Lin
National Taiwan University, Taiwan
- PS-02-a-089 Effects of folate status on lipid metabolism and immune responses in high-fat diet-induced obese mice**
Yu-Lin Hsiu, Bi-Fong Lin
National Taiwan University, Taiwan

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- PS-02-a-090 Monitoring of health promoting power in Astaxanthin by using dual-mode observation of innate immune responses in neutrophils**
 Kimiko Kazumura¹, Yukiko Sato¹, Mika Mochizuki², Hiroshi Tsuchiya¹, Takashi Koike¹, Yuqiu Wu³, Shigetoshi Okazaki⁴, Toshihiko Osawa²
¹Hamamatsu Photonics K. K., Japan, ²Aichi Gakuin University, Japan, ³Healthcare Systems Co. Ltd., Japan, ⁴Hamamatsu University School of Medicine, Japan
- PS-02-a-091 Effects of lactosucrose supplementation on antibodies production in normal or respiratory syncytial (RS) virus infected mice**
 Eriko Kishino¹, Hiroki Tanaka¹, Naho Takemura¹, Tetsuya Ito¹, Katsuhiko Mikuni¹, Masatoshi Nakazawa²
¹Ensuiko Sugar Refining Co., Ltd, Japan, ²Yokohama City University, Japan
- PS-02-a-092 The intracellular mechanism for up-regulating the glutathione level in RAW264 murine macrophages exposed to beta-carotene**
 Rintaro Yamanishi
 Kanagawa University of Human Services, Japan
- PS-02-a-093 The replication of intracellular mycobacteria under high concentration of glucose is independent of inducible nitric synthase expression**
 Mayuko Osada-Oka¹, Yuriko Ozeki², Hiroshi Ichikawa³, Yukiko Minamiyama¹, Sohkiichi Matsumoto²
¹Kyoto Prefectural University, Japan, ²Niigata University, Japan, ³Doshisha University, Japan
- PS-02-a-094 Carnosine enhances intestinal IgA antibody production in mice**
 Yuan Cao¹, Mamoru Totsuka¹, Junya Uchida¹, Yuichi Tsuda¹, Hideo Satsu^{1,2}, Makoto Shimizu^{1,3}
¹The University of Tokyo, Japan, ²Maebashi Institute of Technology, Japan, ³Tokyo University of Agriculture, Japan
- PS-02-a-095 Effects of Lophatherum gracile Brongn, Alismatis Rhizoma, and Vigna radiate coat extracts on NO and PGE2 production in Raw264.7 cell**
 Wei-yi Cheng¹, Hong-wen Wang¹, Hung-jung Chin²
¹I-Shou University, Taiwan, ²E-Da Hospital, Taiwan
- PS-02-a-096 Folate deficiency and supplementation exert different effects on cytokine productions and survival of autoimmune-prone NZB/W F1 mice**
 Chia-Chien Hsieh¹, Bi-Fong Lin²
¹National Taiwan Normal University, Taiwan, ²National Taiwan University, Taiwan
- PS-02-a-097 Immunogenicity and allergenicity of wheat gliadin in A/J mice**
 Kana Hirano^{1,2}, Yuka Ootake¹, Shingo Hino^{1,3}, Kenzi Oshima^{1,3}, Tetsuya Okajima¹, Daita Nadano¹, Tsukasa Matsuda¹
¹Nagoya University, Japan, ²Kinjo Gakuin University, Japan, ³Shizuoka University, Japan
- PS-02-a-098 4-1BBL signaling-induced metabolic reprogramming in adipose monocytes/macrophages**
 Thai Hien Tu¹, Chu-Sook Kim¹, Teruo Kawada², Rina Yu¹
¹University of Ulsan, Korea, ²Kyoto University, Japan
- PS-02-a-099 Adult Prematurely Aging Mice Fed With a Gluten-Enriched Diet Show an Impaired Immune Response**
 Monica De la Fuente¹, Antonio Garrido¹, Julia Cruces¹, Angel Hernanz², Yolanda Sanz³
¹Complutense University of Madrid, Spain, ²La Paz Hospital of Madrid, Spain, ³Institute of Agrochemistry and Food Technology, Spain
- PS-02-a-100 Leukocyte types and lymphocyte subsets in normal-weight healthy pregnant women: the PREOBE study**
 Ascension Marcos¹, Andreu Prados¹, Esther Nova¹, Ligia Esperanza Diaz¹, Rosario Moreno-Torres², Cristina Campoy²
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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- PS-02-a-101 Dietary isoflavone daidzein regulates mitochondrial biogenesis in muscle cells by regulating transcriptional networks**
 Yuri Sakamoto, Makiko Yoshino, Ayano Naka, Ayako Shibasaki, Mariko Toh, Kazuo Kondo, Kaoruko Iida
 Ochanomizu University, Japan

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- PS-02-a-102 Comparison of Fatty Acid Compositions of Selected Supplementary Oils**
Hock Eng Khoo, Azrina Azlan, Nor Shahidah Mohd Yahya
Universiti Putra Malaysia, Malaysia
- PS-02-a-103 Anti-inflammatory effect of *Arctium lappa* (burdock) sprout extract on LPS-induced inflammation in RAW 264.7 cells**
Chie Muto, Misaki Akimoto, Yuzuri Iwamoto, Chikako Kiyose
Kanagawa Institute of Technology, Japan
- PS-02-a-104 Preventive effect of conjugated linoleic acid and mandarin orange extract on ovariectomy-induced dyslipidemia in female rats**
Mikiya Oguri, Kaoru Tanizawa, Yoko Oyama, Kyoichi Osada
Meiji University, Japan
- PS-02-a-105 Alpha-Tocopherol Content of Fish and Shellfish as Potential Source of Functional Ingredient**
Azrina Azlan, Hock Eng Khoo
Universiti Putra Malaysia, Malaysia
- PS-02-a-106 Structural features and biological activity of water-soluble free oligosaccharides obtained from edible beans**
Mariko Kimura¹, Haruko Nagasawa¹, Hisako Hotta¹, Emiko Iwata², Miyuki Akamatsu¹
¹Kobe Women's University Graduate School, Japan, ²Kanazawa Gakuin College, Japan
- PS-02-a-107 Visualization of metabolites in *Oryza sativa* rice by matrix-assisted laser desorption/ionization imaging mass spectrometry**
Nobuhiro Zaima¹, Yukihiko Yoshimura², Yukio Kawamura³, Tatsuya Moriyama¹
¹Kinki University, Japan, ²Okayama Prefectural University, Japan, ³Kyoto Women's University, Japan
- PS-02-a-108 Dietary supplementation with Aloe vera gel extract (AVGE) prevents chronic UVB radiation-induced skin photoaging in hairless mice**
Eriko Misawa, Miyuki Tanaka, Marie Saito, Ruiqing Yao, Kazumi Nabeshima, Kouji Yamauchi, Fumiaki Abe
Morinaga Milk Industry Co., Japan
- PS-02-a-109 Anti-proliferative effects and quantitative structure-activity relationship of phytosterols and other sterols on Colon-26 cells**
Yasuhiro Kozuki¹, Mami Kawamura², Yuri Nakashima³, Yasuhide Okuhara³, Yukihiko Ito³, Reiko Osato-Sasada⁴, Toshitsugu Sato⁵, Hiroyuki Watanabe²
¹Chugoku Junior College, Japan, ²University of Kochi, Japan, ³FANCL Corporation, Japan, ⁴Iwate Prefectural University, Japan, ⁵Kitami Institute of Technology, Japan
- PS-02-a-110 Effect of accumulation of antihypertensive peptides on tissue ACE inhibition**
Masahiro Koyama, Syo Okitsu, Akira Watanabe, Ryo Yamazaki, Daisuke Hayasaki, Koza Nakamura
Shinshu University, Japan
- PS-02-a-111 Detection of peptides with xanthineoxidase-inhibitory activity derived from shark cartilage anti-hyperuricemic peptide (YLDNY) in rat**
Shogo Hayano, Kenji Sato
Kyoto University, Japan
- PS-02-a-112 Suppressive Effect of Fermented Tea Made with Third Crop Green Tea and Camellia Leaves on Fat Accumulation in Rat Liver**
Tanaka Kazunari¹, Fujimura Naoko¹, Miyata Yuji², Tajima Koichi², Nakayama Hisayuki², Tanaka Takashi³, Nagata Yasuo¹, Tamaru Shizuka¹
¹University of Nagasaki, Japan, ²Nagasaki Agricultural and Forestry Technical Development Center, Japan, ³Nagasaki University, Japan
- PS-02-a-113 Study on The Anti-obesity Effect of Purple Tea Extract Derived from Kenya**
Hiroshi Shimoda¹, Shoketsu Hitoe¹, Seikou Nakamura², Hisashi Matsuda²
¹Oryza Oil & Fat Chemical Co., LTD., Japan, ²Kyoto Pharmaceutical University, Japan
- PS-02-a-114 Effects of fermented germinated brown rice on DMH/DSS-induced colorectal carcinogenesis in rats**
Han-Pei Lin, Hui-Pu Lin, Chun-Kuang Shih
Taipei Medical University, Taiwan

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- PS-02-a-115 Parboiled germinated brown rice (*Oryza sativa* 'KDML 105') attenuates the liver necro-inflammation and fibrosis induced by carbontetrachloride in rats**
Kansuda Wunjuntuk, Aikkarach Kettawan, Somsri Charoenkiatkul
Mahidol University, Thailand
- PS-02-a-116 Effects of combination of germinated brown rice, *Lactobacillus acidophilus* and *Bifidobacterium lactis* on DMH/DSS-induced colon carcinogenesis in rats**
Hui-Pu Lin, Han-Pei Lin, Chun-Kuang Shih
Taipei Medical University, Taiwan
- PS-02-a-117 Preventive effect of perilla oil on colon carcinogenesis in rats**
Chih-Wei Lee, Chun-Kuang Shih
Taipei Medical University, Taiwan
- PS-02-a-118 Effects of dietary *Undaria pinnatifida* (wakame) on energy metabolism in mice**
Keiko Yoshinaga¹, Hiroko Maruyama², Taketoshi Kimura², Rei Kawashima², Kouya Kubo¹, Takashi Kahara¹, Takahisa Nakano¹
¹*Riken Vitamin Co., Ltd, Japan*, ²*Kitasato University, Japan*
- PS-02-a-119 Anti-diabetic Effect of Monascus-Fermented Materials- On Human Clinical Trial**
Ying-Ruei Wang, Shen-Fu Liu, Chin-Kun Wang
Chung Shan Medical University, Taiwan
- PS-02-a-120 Lipid lowering effect of orally administrate Oligonol having low molecular procyanidins in rats**
Kota Hayashi, Kyoichi Osada, Ken Hinohara
Meiji University, Japan
- PS-02-a-121 Astaxanthin Reduces Hepatic Insulin Resistance and Inhibits The Progression of Lipotoxic Model of Nonalcoholic Steatohepatitis**
Yinhua Ni, Mayumi Nagashimada, Fen Zhuge, Naoto Nagata, Shuichi Kaneko, Tsuguhito Ota
Kanazawa University, Japan
- PS-02-a-122 Hypoallergenicity of Wheat Gliadin deamidated without Peptide-bond Hydrolysis by Cation-exchange Resins**
Narumi Matsukaze¹, Ryosuke Abe¹, Makoto Akao¹, Hitoshi Kumagai², Hitomi Kumagai¹
¹*Nihon University, Japan*, ²*Kyoritsu Women's University, Japan*
- PS-02-a-123 Phenolic Compounds and Antioxidant Activities of Krabok Extract**
Laddawan Chalajit¹, Chatrapa Hudthagosol⁴, Uthaiwan Suttisansanee², Promluck Somboonpanyakul³, Warangkana Srichamnong¹
Mahidol University, Thailand
- PS-02-a-124 Finding the active components in Hsian-tsao tea with function of lowering blood triglyceride**
Yi-Chen Wu, Hui-Chi Huang, Pei-Min Chao
China Medical University, Taiwan
- PS-02-a-125 Effects of oral administration of an olive fruit extract in subjects with mild knee joint pain**
Satoshi Fukumitsu, Kazuhiko Aida, Yoichi Kurimoto
Nippon Flour Mills Co., Ltd., Japan
- PS-02-a-126 Peanut skin extract reduces blood sugar due to inhibition of *alpha*-glucosidase**
Misako Sogawa¹, Natsuka Koyama¹, Ayana Kohno¹, Natsumi Yamamoto¹, Aya Nakazawa¹, Azusa Tanimura², Kentaro Kamimae², Masaji Yamamoto³
¹*Shikoku University, Japan*, ²*KISCO LTD.*, ³*MARUZEN PHARMACEUTICALS CO., LTD.*
- PS-02-a-127 DPP-4 Inhibitory Activity of Clove**
Emi Tone¹, Makoto Kotaru², Misao Tashiro¹
¹*Mukogawa Women's University, Japan*, ²*Kyoto Koka Women's University, Japan*
- PS-02-a-128 Diallyl trisulfide protects the liver from acetaminophen induced intoxication**
Sayaka Araki, Koji Kimura, Ayano Kugu, Takashi Hosono, Taiichiro Seki
Nihon University, Japan
- PS-02-a-129 Kaempferol modulates expression of drug-metabolizing enzymes through the AhR and Nrf2 pathways in HepG2 cells**
Rika Nakai, Yuki Kimura, Yoko Yamashita, Hitoshi Ashida
Kobe University, Japan

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- PS-02-a-130 The effect of 1-Deoxynojirimycin on colon cancer**
 Shuang E¹, Toshiyuki Kimura², Tsuyosi Tsuduki¹
¹Tohoku University, Japan, ²NARO Agricultural Research Center
- PS-02-a-131 Anticaries Effects of Pomace Extract in Human Trials**
 Kyoko Shimazu¹, Toshiaki Konishi¹, Yukari Ohara², Kazuhiko Aida¹, Chieko Mitsuata², Katsuyuki Kozai²
¹NIPPON FLOUR MILLS CO., LTD., Japan, ²University of Hiroshima, Japan
- PS-02-a-132 Effect of Fat Substitution with Pectin from Dragon Fruit Peel on Quality and *in vitro* Lipid Digestibility of Salad Dressing**
 Wipada Soonthornhdhada, Nattapol Tangsuphoom, Anadi Nitithamyong, Warangkana Srichamnong
 Mahidol University, Thailand
- PS-02-a-133 Mineral Availability and Dietary Fiber Characteristics of *Moringa oleifera***
 Aida C. Mallillin, Trinidad P. Trinidad, Rosario S. Sagum, Marco P. De Leon, Melissa S. Borlagdan, Amster Fei P. Baquiran, Theresa S. Aviles, James David S. Alcantara
 Food and Nutrition Research Institute, Philippines
- PS-02-a-134 Effect of beta-conglycinin ingestion in mice**
 Tsutomu Hashidume¹, Asuka Kato¹, Akira Oikawa², Makoto Shimizu¹, Jun Inoue¹, Ryuichiro Sato¹
¹University of Tokyo, Japan, ²Yamagata University, Japan
- PS-02-a-135 Methylated resveratrol induces cell cycle arrest and apoptosis in three subtypes of human breast cancer cell lines**
 Rei Wakimoto, Mikako Takeshima, Misaki Ono, Takako Higuchi, Shuji Nakano
 Nakamura Gakuen University, Japan
- PS-02-a-136 Antioxidant activity of berries that produced in Gunma**
 Asuka Uchida, Misaki Edura, Masako Ota, Tomohiro Yano
 Toyo University, Japan
- PS-02-a-137 Effects of tyrosine on dopamine metabolism after *n*-hexanal stimulation**
 Yoko Kobayashi¹, Hironari Kako², Hidehiko Yokogoshi³
¹Kiryu University, Japan, ²Tottori College, Japan, ³Chubu University, Japan
- PS-02-a-138 The effect of Burdock mixture supplement on *Helicobacter pylori* infection: one randomised controlled clinical trial**
 Shu Yu Huang
 Chung Shan Medical University, Taiwan
- PS-02-a-139 Isolation of antimicrobial components from Aronia juice against *Staphylococcus aureus***
 Aya Sakagami¹, Yuri Suzuki¹, Yuji Isegawa¹, Hidenobu Sumitani²
¹Mukogawa Women's University, Japan, ²Toyo Institute of Food Technology, Japan
- PS-02-a-140 Megalo-type isomaltosaccharides enhance a barrier function of the small intestinal epithelium**
 Shunsuke Kume, Yuya Kumagai, Satoshi Ishizuka, Atsuo Kimura, Hiroshi Hara
 Hokkaido University, Japan
- PS-02-a-141 Effects of dietary Beta-conglycinin on insulin sensitivity and liver lipid concentration in KK-Ay mice**
 Kawabeta Koji, Tamaru Shizuka, Noda Takahiro, Koba Kazunori
 University of Nagasaki, Japan
- PS-02-a-142 Inhibitory effects of geranium essential oil on the degranulation and cytokine production of mast cells**
 Yuko Kobayashi¹, Harumi Sato¹, Mika Yorita¹, Hiroto Nakayama², Hironari Miyazato², Keiichiro Sugimoto², Tomoko Jippo¹
¹Senri Kinran University, Japan, ²Nagaoka Perfumery Co., Ltd., Japan
- PS-02-a-143 S-Equol increases the production of cyclic AMP at the plasma membrane of INS-1 pancreatic beta-cells**
 Hiroko Horiuchi¹, Naoki Harada¹, Yoshihisa Nakano², Hiroshi Inui¹, Ryoichi Yamaji¹
¹Osaka Prefecture University, Japan, ²Osaka Women's Junior College, Japan
- PS-02-a-144 Nerve growth factor-inducing activity from the fruit body and cultured mycelium of *Hericium erinaceum* in PC12 and 1321 cells**
 Li-Ya Lee^{1,2}, Wan-Ping Chen¹, Chin-Chu Chen¹
¹Grape King Biotechnology Inc., Taiwan, ²National Chung Hsing University, Taiwan

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- PS-02-a-145 Control of amylase activities in *Aspergillus niger* phytase preparation is critical for bread making without adverse effects on bread volume**
Akiko Matsuo¹, Eun Y. Park², Yasushi Nakamura², Kenji Sato³
¹Koshien University, Japan, ²Kyoto Prefectural University, Japan, ³Kyoto University, Japan
- PS-02-a-146 Identification of compounds suppressive production of nitric oxide by hepatocytes in water extract of cultured mycelium of edible mushroom**
Maki Kashimoto¹, Masaki Kaibori², Mikio Nishizawa³, Tadayoshi Okumura^{2,3}, A-hon Kwon², Eunyoung Park⁴, Yasushi Nakamura⁴, Kenji Sato¹
¹Kyoto University, Japan, ²Kansai Medical University, Japan, ³Ritsumeikan University, Japan, ⁴Kyoto Prefectural University, Japan
- PS-02-a-147 Sulforaphane, sulforaphene and erucin, sulfur containing compounds, inhibit osteoclasts differentiation via down-regulating cell-cell fusion molecules associated to osteoclast differentiation**
Tomohiro Takagi, Hirofumi Inoue, Nobuyuki Takahashi, Mariko Uehara
Tokyo University of Agriculture, Japan
- PS-02-a-148 Antioxidant capacity of tea infusion correlates with the phytochemicals extracted during steeping of black tea *Camellia sinensis* L**
Chamira Dilanka Fernando^{1,2}, Preethi Soysa¹
¹University of Colombo, Sri Lanka, ²Institute of Chemistry, Sri Lanka
- PS-02-a-149 Catechins in biscuits incorporated with Matcha green tea powder**
Benjapor Phongnarisorn, Lisa Marshall, Caroline Orfila, Melvin Holmes
University of Leeds, UK
- PS-02-a-150 8-Prenylaringenin enhances the recovery from disuse muscle atrophy of mice with cast immobilization**
Pei Yi Lin, Rie Mukai, Hitomi Horikawa, Junji Terao
Tokushima University, Japan
- PS-02-a-151 Protective effects of rice peptides on acetaminophen-induced hepatotoxicity in mice**
Kayoko Kawakami¹, Chie Moritani¹, Yoshikazu Inoue², Akiko Fujita², Koji Kawakami², Tadashi Hatanaka³, Etsuko Suzuki¹, Seiji Tsuboi¹
¹Shujitsu University, Japan, ²SATAKE Corporation, Japan, ³RIBS Okayama, Japan
- PS-02-a-152 Phosphatidic acid production in processed sprouts**
Mai Katayose¹, Yasuko Murakami¹, Tamotsu Tanaka²
¹Fukuyama University, Japan, ²University of Tokushima, Japan
- PS-02-a-153 Increasing effect of rice bran peptides on cellular glutathione levels**
Chie Moritani¹, Kayoko Kawakami¹, Yoshikazu Inoue³, Akiko Fujita³, Koji Kawakami³, Tadashi Hatanaka², Seiji Tsuboi¹
¹Shujitsu University, Japan, ²Research Institute for Biological Sciences Okayama, Japan, ³SATAKE Corporation, Japan
- PS-02-a-154 Effects of various extraction conditions on the antioxidant activity of unfermented and fermented rooibos teas**
Kaori Murakami¹, Takeshi Nagasawa²
¹Hiroshima Institute of Technology, Japan, ²Kio University, Japan
- PS-02-a-155 Effect of tea extracts on fecal microbiota in rats fed a high-fat diet**
Tomonori Unno, Kaori Ono, Noriko Komagome, Fusako Yamasuge, Yumi Mori
Tokyo Kasei-Gakuin University, Japan
- PS-02-a-156 *In vitro* anti-fatigue activity of resveratrol, epigallocatechin gallate, and epicatechin in C2C12 myotubes**
Wei-Tang Chang
Chung Shan Medical University, Taiwan
- PS-02-a-157 Effects of Buckwheat (*Fagopyrum esculentum*) Hot-Water Extract on Plasma and Liver Lipid Levels in Rats**
Kawasaki Masashi, Hiroko Sakamoto, Rumiko Takahashi, Yumiko Nishita, Miho Kano, Yoshie Kon, Chiaki Sugawara
Iwate Prefectural University, Japan

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- PS-02-a-158 Egg White Hydrolysate Can Be a Low Allergenic Protein Material to Suppress Body Fat Accumulation in Pair-Fed Rats**
Masaru Ochiai, Kohei Misaki, Tatsuhiro Matsuo
Kagawa University, Japan
- PS-02-a-159 Oleonic acid suppresses HIF-1 α -VEGF signaling in white adipose tissue of diet-induced obese mice**
Seon-Young Han, Young-Hee Kang
Hallym University, Korea
- PS-02-a-160 Effects of *Lactobacillus plantarum* TWK10-fermented soy milk on brain functions of deoxycorticosterone acetate salt hypertension rats**
Tsung-Yu Tsai, Te-Hua Liu
Fu Jen Catholic University, Taiwan
- PS-02-a-161 Preventative effects of Hyuganatsu orange on osteoporosis in OVX rats and postmenopausal women**
Shoko Nishizono¹, Hiroko Hata², Yoichiro Sakatani³, Masatoshi Yamaguchi², Hiroshi Sameshima²
¹Sojo University, Japan, ²University of Miyazaki, Japan, ³Miyazaki Nokyokaju, Japan
- PS-02-a-162 Identification and functional analysis of anti-aging lactic acid bacteria**
Gakuro Harada¹, Takashi Matsumoto², Fumiki Morimatsu², Yoshinori Katakura¹
¹Kyushu University, Japan, ²Nippon Meat Packers Inc., Japan
- PS-02-a-163 Studies on antioxidant activity of hydrolysates obtained from porcine muscle proteins by protease treatment**
Ai E Saiga, Wataru Inoue, Toshihide Nishimura
Nippon Veterinary and Life Science University, Japan
- PS-02-a-164 Milk basic protein facilitates longitudinal bone growth in growing mice**
Yuko Ishida, Aiko Ono-Ohmachi, Yoshikazu Morita, Ken Kato
Megmilk Snow Brand Co., Ltd., Japan
- PS-02-a-165 Long-term fermented miso suppresses plasma and hepatic triacylglyceride by activating PPAR alpha and related mRNA expression in obese diabetic mice**
Nakata Keiji¹, Tada Takakiyo², Ichimura Naoya², Kawada Teruo³, Ichijo Noriyoshi¹
¹MARUSA SHOJI CO., LTD, Japan, ²KRI, Inc., Japan, ³Kyoto University, Japan
- PS-02-a-166 Anti-cancer effect and the mechanism of extract of *Mallotus furetianus***
Yusuke Shimizu¹, XueDan Huang², Tatsuya Shirahata², Yoshinori Kobayashi², Isao Matsui-Yuasa¹, Akiko Kojima-Yuasa¹
¹Osaka City University, Japan, ²Kitasato University, Japan
- PS-02-a-167 The extract of outer layer of rice inhibits tumor cell growth**
Yoshihiro Ohshige¹, Hirotaka Sekiguchi², Keita Sutoh², Koji Usumi², Isao Matsui-Yuasa¹, Akiko Kojima-Yuasa¹
¹Osaka City University, Japan, ²Life Science Institute Co., Ltd, Japan
- PS-02-a-168 Oceanic Anserine has an effect on fast twitch muscles**
Toshifumi Sugiura³, Hirohisa Kishi¹, Teruhiko Fuwa¹, Daiki Kubomura²
¹Polytechnic University, Japan, ²Yaizu Suisankagaku Industry, Japan, ³Shizuoka University, Japan
- PS-02-a-169 Nourishment Function Improvement of Steaming heating foods using the steam convection oven**
Atsuko Yamamoto¹, Michie Moriyama², Atsumi Koide³, Tomoko Yamauchi³
¹Aichi Gakusen College, Japan, ²Aichi Gakusen University, Japan, ³Nagoya Women's University, Japan
- PS-02-a-170 Pomegranate (*Punica granatum* L.) fruit extract inhibits pigmentation by transcript alterations**
Yuya Kumagai¹, Sachie Nakatani¹, Yumi Nakamura¹, Hideaki Onodera¹, Yoichi Matsuura², Norihisa Nishida², Akifumi Nagatomo², Kenji Kobata¹, Masahiro Wada¹
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- PS-02-a-171 Effect of extracellular matrix related saccharides on the chondrocyte**
Toshiya Kudo, Sachie Nakatani, Misato Kakizaki, Kenji Kobata, Masahiro Wada
Josai University, Japan

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- PS-02-a-172 Improvement in skin conditions by oral supplementation of a sphingomyelin-containing milk phospholipids concentrate in a double-blind, placebo-controlled, randomized trial**
Satoshi Higurashi, Yuko Haruta, Hiroshi Urazono, Toshiya Kobayashi, Yukio Kdooka
Megmilk Snow Brand Co., Ltd., Japan
- PS-02-a-173 Comparison of quantity of hydroxyproline-containing peptides in mice blood after oral administration of collagen-derived peptides**
Yoshifumi Kimira¹, Yuri Taniuchi¹, Miyoshi Shimizu¹, Aya Kataoka², Naoki Inoue², Fumihito Sugihara², Hiroshi Mano¹
¹*Josai University, Japan*, ²*Nitta Gelatin Inc., Japan*
- PS-02-a-174 Molecular mechanisms for Carnosine-induced mitochondrial biogenesis in the intestinal epithelial cells**
Kaoru Fujii¹, Takashi Matsumoto², Mikako Sato², Fumiki Morimatsu², Yoshinori Katakura¹
¹*Kyushu University, Japan*, ²*Nippon Meat Packers, Inc., Japan*
- PS-02-a-175 Influence of Cornsilk Powder on Nutritional, Physical, Antioxidative Capacity and Sensory Acceptability of Biscuit**
Wan Rosli Wan Ishak, Nurhanan Abdul Rahman
Universiti Sains Malaysia, Malaysia
- PS-02-a-176 Evaluation of aculeatin and toddaculin isolated from *Toddalia asiatica* (L.) Lam. as anti-inflammatory agents in RAW264 murine macrophages**
Momochika Kumagai¹, Akio Watanabe^{1,2}, Tsuyoshi Kato¹, Izumi Yoshida¹, Keiko Koizumi¹, Takashi Mishima¹, Kazuhiro Fujita¹, Masatoshi Watai¹, Kiyotaka Nakagawa², Teruo Miyazawa²
¹*Japan Food Research Laboratories, Japan*, ²*Tohoku University, Japan*
- PS-02-a-177 Identification of the flavonoid luteolin as an inactivator of HNF4 alpha**
Jun Inoue, Juan Li, Jung-Min Choi, Makoto Shimizu, Ryuichiro Sato
The University of Tokyo, Japan
- PS-02-a-178 Effects of Consumption Timing on Gastric Emptying Time and Bioavailability of Whey Protein**
Hiroyuki Sakakibara¹, Takayuki Nara², Ken Kato², Masanobu Sakono¹
¹*University of Miyazaki, Japan*, ²*Megmilk Snow Brand Co., Ltd., Japan*
- PS-02-a-179 Effects of the hijiki with lower molecular weight fucoidan on the postprandial blood glucose levels in healthy subjects**
Asae Nakamura¹, Mihoko Moto¹, Kaname Katsuraya¹, Kazuyasu Iwasaki², Katsuyuki Tanaka², Akihiko Murota³
¹*Wayo Women's University, Japan*, ²*Okuno Chemical Industries Co., Ltd, Japan*, ³*Meiji University, Japan*
- PS-02-a-180 Effect of Maitake fruit body on cecal fermentation in rats**
Kyuho Han¹, Satsuki Sueoka¹, Yoshihiko Tokuji¹, Ken-ichiro Shimada¹, Mikio Kinoshita¹, Mayumi Sato², Michihiro Fukushima¹
¹*Obihiro University of Agriculture and Veterinary Medicine, Japan*, ²*Hokkaido Research Organization, Japan*
- PS-02-a-181 In vivo imaging of adipose tissue inflammation by using Saa3 promoter activity**
Yohei Sanada¹, Takafumi Yamamoto¹, Sumire Kanai¹, Fusanori Nishimura², Fons van de Loo³, Norihisa Kato¹, Noriyuki Yanaka¹
¹*Hiroshima University, Japan*, ²*Kyusyu University, Japan*, ³*Radbond University, Netherlands*
- PS-02-a-182 Cacao polyphenol promotes energy metabolism under the circadian clock gene expressions**
Yuji Mitsuhashi¹, Hitoshi Ashida¹, Yoko Yamashita¹, Midori Natsume²
¹*Kobe University, Japan*, ²*Meiji Co., Ltd., Japan*
- PS-02-a-183 Evaluation of anti-inflammatory activity of *Psychotria sarmentosa* leaves used in traditional porridge in Sri Lanka**
Kalpani M. Ratnayake¹, Chandrika Udumalagala Gamage¹, Ajith M. Abeysekera¹, Sugandhika Suresh¹, Nazeera Salim¹, Siril A. Wijesundara²
¹*University of Sri Jayewardenepura, Sri Lanka*, ²*Royal Botanical Garden, Sri Lanka*.
- PS-02-a-184 The Effect of vine tea on metabolic syndrome in Diet-induced Obese Rats**
Liang-Yi Wu, Min-Chen Yu, Jou-Hsuan Lee, Ling-Yun Cheng, Yang-Hung Lee
Chung Yuan University, Taiwan

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- PS-02-a-185 Effect of isomaltulose on skeletal muscle in high-fat/high-sugar-fed rats**
 Shuhei Ishikawa¹, Misato Sakurai², Yuri Nomi², Katsumi Sasagawa¹, Keiichi Koshinaka³, Shinji Sato²
¹Bourbon Institutes of Health, Japan, ²Niigata University of Pharmacy and Applied Life Sciences, Japan, ³Niigata University of Health and Welfare, Japan
- PS-02-a-186 Zinc enriched Probiotic improves immune function and bioavailability of nutrients in young children**
 Ingrid S Surono¹, Pratiwi D Martono², Satomi Kameo³, Mutakin Mutakin⁴, Hiroshi Koyama³
¹BINUS University, Indonesia, ²Indonesian Christian University, Indonesia, ³Gunma University, Japan, ⁴Pajajaran University, Indonesia
- PS-02-a-187 Anti-inflammatory activity of fish myofibrillar proteins is improved by conjugation with oligosaccharide using the Maillard reaction**
 Mizuho Nishizawa, Musashi Saigusa, Hiroki Saeki
 Hokkaido University, Japan
- PS-02-a-188 Effect of black tea on body weight and body fat accumulation in rats**
 Naoko Takamizawa¹, Asae Nakamura², Nao Yoshimoto³, Mihoko Moto², Naotaka Hashizume⁴, Yuri Hoshino¹, Kazunaga Yazawa¹
¹Waseda University, Japan, ²Wayo Women's University, Japan, ³Sagami Women's University, Japan, ⁴University of Human Arts and Sciences, Japan
- PS-02-a-189 Inhibition of ER stress-associated Mucus Hypersecretion by Kaempferol in Lung Airway Epithelial Cells and Ovalbumin-sensitized Mice**
 Ju-Hyun Gong
 Hallym University, Korea
- PS-02-a-190 Manninotriose, detection and quantification of an important oligosaccharide in fermented soybean products**
 Shizusa Kodama, Yasujiro Morimitsu
 Ochanomizu University, Japan
- PS-02-a-191 Effect of dietary lily bulb on dextran sulfate sodium-induced colitis in rats fed a high-fat diet**
 Yukako Okazaki¹, Eri Fukuda¹, Hideyuki Chiji¹, Norihisa Kato²
¹Fuji Women's University, Japan, ²Hiroshima University, Japan
- PS-02-a-192 Effect of peanut skin extract containing polyphenols on the growth of bacteria causing food-borne disease**
 Kiyo Okazaki¹, Misako Sogawa¹, Azusa Tanimura², Kentaro Kamimae², Masaji Yamamoto³
¹Shikoku University, Japan, ²Kisco Ltd., Japan, ³Maruzen Pharmaceuticals Co., Ltd., Japan
- PS-02-a-193 Chemical Composition and Acute Toxicity studies on Hericium erinaceus Mycelium**
 Wan-Ping Chen, Li-Ya Lee, Chin-Chu Chen
 Grape King Biotechnology Inc., Taiwan
- PS-02-a-194 Effect of resveratrol on human cardiomyocytes derived from iPS cells**
 Yoshie Takizawa¹, Yurika Ito¹, Rieko Nakata¹, Takaaki Yanai², Reiko Yamamoto², Takuma Uehara², Ryoji Takata², Hiroyasu Inoue¹
¹Nara Women's University, Japan, ²Mercian Corporation, Japan
- PS-02-a-195 Lactobacillus-fermented Curcuma longa suppresses tumor growth of azoxymethane-induced colorectal cancer in F344 rats**
 Yu-Hao Kuo¹, Shu-Chi Li¹, Jyh-Jye Wang², Chun-Chih Huang³, Shuchen Hsieh⁴, Shu-Ling Hsieh¹, Chih-Chung Wu⁵
¹National Kaohsiung Marine University, Taiwan, ²Fooyin University, Taiwan, ³New Bellus Enterprises Co., Ltd., Taiwan, ⁴National Sun Yatsen University, Taiwan, ⁵Chang Jung Christian University, Taiwan
- PS-02-a-196 Toxicity studies of Gynura bicolor vegetable juice in mice**
 Shu-Ling Hsieh¹, Chih-Huei Lu², Yun-Shan Huang³, Pei-Syuan Luo¹, Chih-Chung Wu³
¹National Kaohsiung Marine University, Taiwan, ²Fooyin University Hospital, Taiwan, ³Chang Jung Christian University, Taiwan
- PS-02-a-197 Research on the functionality of rice fermented with Bacillus natto**
 Huei-Ju Wang, Lin Chang
 Chinese Culture University, Taiwan

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- PS-02-a-198 Safety assessment of Butterbur (BB) products based on impacts against rat liver and kidney**
Hiroko Hashida¹, Ha Thi Ngoc Bui², Riho Hamano², Yuki Horikoshi², Anna Arita², Yuko Yamazaki², Fumio Shimura²
¹Showa Gakuin Junior College, Japan, ²Jumonji University, Japan
- PS-02-a-199 Possible participation of PPARalpha in improvement of lipid metabolism by soybean-derived components**
Inoue Hiroyasu, Misaki Furuta, Shoko Hongo, Kanae Matsushita, Sayo Kawanishi, Sayuri Yamagami, Yoshie Takizawa, Rieko Nakata
Nara Women's University, Japan

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- PS-02-a-200 Anti-diabetic effects of resistant starch from Musa AAB in streptozotocin-induced diabetic rats**
Haripriya Sundaramoorthy, Reddy Chagam Koteswara
Pondicherry Univeristy, India
- PS-02-a-201 Okara exerts anti-diabetic effects through the PPARgamma-mediated pathway in GK rats**
Masaya Hosokawa, Michiko Katsukawa, Hiroshi Tanaka, Hitomi Fukuda, Sonomi Okuno, Kinsuke Tsuda, Nobuko Iritani
Tezukayama-gakuin University, Japan
- PS-02-a-202 Metabolic Effects of High and Low Sugar Diets on Plasma Small, Dense LDL Cconcentration**
Aryati Ahmad
Universiti Sultan Zainal Abidin, Malaysia
- PS-02-a-203 Effects of Cocoa, Coffee, Green Tea, and Garcinia Complex Supplement on Lipid Profile in Hamsters**
Chih-Wei Chang¹, Chi-Chang Huang², Yi-Ju Hsu², Wen-Ching Huang², Yi-Ming Chen², Mei-Chich Hsu¹
¹Kaohsiung Medical University, Taiwan, ²National Taiwan Sport University, Taiwan
- PS-02-a-204 Pinocembrin Reduces Cardiac Arrhythmia and Infarct Size in Rats with Acute Myocardial Ischemia/reperfusion**
Anusorn Lungkaphin¹, Anchalee Pongchaidecha¹, Siripong Palee², Phatchawan Arjinajarn³, Wilart Pompimon⁴, Nipon Chattipakorn¹
¹Chiang Mai University, Thailand, ²Mae Fah Luang University, Thailand, ³Lampang Rajabhat University, Thailand
- PS-02-a-205 Inhibition of Ca²⁺/Calmodulin signaling on adenine-induced vasorelaxation in vascular smooth muscle cells**
Toshihiko Fukuda, Takahiro Kuroda, Miki Kono, Mai Hyoguchi, Toshiro Matsui
Kyushu University, Japan
- PS-02-a-206 Preventive effects of Vitamin E on non-alcoholic steatohepatitis (NASH) in a novel mouse model using streptozotocin and a high-fat diet**
Kinoshita Wakako¹, Iida Ayaka², Nakamura Mizuho¹, Yamamoto Ryoko³, Hamano Momoko¹, Katagiri Yoshinori¹, Wakamatsu Kyoko⁴, Komeyama Hiroyuki⁴, Nakamura Tsuyoshi¹
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- PS-02-a-207 Oral Administration of EPA or DHA Modifies Cardiac Function and Ameliorates Congestive Heart Failure in Male Rats**
Tomoko T. Yamanushi¹, Hideaki Kabuto¹, Eiichiro Hirakawa¹, Najma Janjua¹, Fusako Takayama², Tadahiro Tsushima³, Yoshihisa Misawa³, Mitsumasa Mankura⁴
¹Kagawa Prefectural University of Health Sciences, Japan, ²Okayama University, Japan, ³Bizen Chemical, Japan, ⁴Kurashiki Sakuyo University, Japan
- PS-02-a-208 Inhibitory mechanism of lenthionine, a shiitake flavor component, against platelet aggregation**
Shoichiro Shimada, Mami Hirai, Hikari Suzuki, Makoto Akao, Hitomi Kumagai
Nihon University, Japan
- PS-02-a-209 Effect of eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA) supplementation on endothelial function: A meta-analysis of randomized controlled trials**
Kohsuke Hayamizu, Kenichi Yanagimoto, Li Han, Tomoko Tsuji
Nippon Suisan Kaisha Ltd., Japan

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- PS-02-a-210 Anti-hypertensive effect of *Morinda citrifolia* (Noni) fruit extract in rat models of genetic and L-NAME induced hypertension**
Shakti Deep Pachauri¹, Santosh Kumar Tota², Kiran Khandelwal¹, Kashif Hanif², Jitendra Kumar Saxena³, Anil Kumar Dwivedi¹
¹Division of Pharmaceutics, ²Division of Pharmacology, ³Division of Biochemistry, ⁴CSIR-Central Drug Research Institute, India
- PS-02-a-211 The effect of flavor compounds derived from garlic on thrombus formation**
Manami Yaguchi¹, Asuka Sato¹, Hosono Takashi¹, Nishimura Satoshi², Taiichiro Seki¹
¹Nihon University, Japan, ²Jichi Medical University, Japan
- PS-02-a-212 Ezetimibe, a cholesterol absorption inhibitor, reduces serum oxysterol in patients with coronary artery undergoing stent placement**
Aya Yanagimoto¹, Ikuyo Ichi¹, Sakie Igarashi¹, Tetsuya Matoba², Susumu Takase², Kensuke Egashira², Yoko Fujiwara¹
¹Ochanomizu University, Japan, ²Kyushu University, Japan
- PS-02-a-213 Effect of Vegetable-oil Based Mayonnaise on Cardiometabolic Risk Assessed through Long-term Human Feeding**
Tilakavati Karupaiah¹, Chuah K. Aik¹, Karuthan Chinna², Ryosuke Matsuoka³, Masuda Yasunobu³, Kalyana Sundram⁴, Michihiro Sugano⁵
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**
Satoru Horigome^{1,2}, Izumi Yoshida¹, Shihomi Ito¹, Misora Suzuki¹, Kei Fushimi¹, Takeshi Nagai¹, Shuichi Inohana¹, Akihiro Yamaguchi³, Toshiya Satoyama¹, Tomoji Yoshiyasu¹, Shin-ichi Katsuda¹, Shinobu Suzuki¹, Masatoshi Watai¹, Naoto Hirose⁴, Takahiro Mitsue⁵, Hitoshi Shirakawa², Michio Komai²
¹Japan Food Research Laboratories, Japan, ²Tohoku University, Japan, ³Rakuno Gakuen University, Japan, ⁴Okinawa Prefectural Agricultural Research Center, Japan, ⁵Okinawa National College of Technology, Japan
- PS-02-a-215 Hexahydrocurcumin induced vasorelaxation in rat thoracic aorta**
Chainarong Tocharus¹, Aida Moohammadaree¹, Chatchawan Changtam², Apichart Suksamrarn³
¹Chiang Mai University, Thailand, ²Huachiew Chalermprakiet University, Thailand, ³Ramkhamhaeng University, Thailand
- PS-02-a-216 LC-MS/MS determination of phosphatidylcholine hydroperoxide isomers via promotion of sodium adduct formation**
Shunji Kato¹, Kiyotaka Nakagawa¹, Yuuri Suzuki¹, Akira Asai², Mototsugu Nagao², Kazuyuki Nagashima³, Shinichi Oikawa², Teruo Miyazawa¹
¹Tohoku University, Japan, ²Nippon Medical School, Japan, ³The Cardiovascular Institute, Japan
- PS-02-a-217 Effect of Burdock root intake on postprandial serum lipids and inflammatory markers in healthy human subjects**
Saori Takenaka, Yoshimi Kishimoto, Yui Hirama, Emi Saita, Norie Sugihara-Suzuki, Miori Tanaka, Chie Taguchi, Kazuo Kondo
Ochanomizu University, Japan
- PS-02-a-218 Prevalence of anemia of chronic disease in elderly stroke patients who received long-term complete tube feeding**
Hitoshi Obara, Mamoru Doi
National Hospital Organization Kamaishi National Hospital, Japan
- PS-02-a-219 The Antioxidant Activity of *Hibiscus taiwanensis* Extracts**
Hui-Lun Chen¹, Yen-An Lin¹, Dong-Gu Lin¹, Ming-Ying Wu², Chien-Kuo Han¹, Yuan-Li Huang¹
¹Asia University, Taiwan, ²Hercet biotech Ltd, Taiwan
- PS-02-a-220 Glycated hemoglobin is a good marker for predicting cardiovascular risk in non-diabetic Korean women: its association with oxidative stress**
So Ra Yoon¹, Ga Yoon Na¹, Seong Ho Han², Oh Yoen Kim¹
¹Dong-A University, Korea, ²Dong-A University Hospital, Korea
- PS-02-a-221 Association of Nutrition Status, Dietary Intake, Physical Activity, and Metabolic Syndrome in Hospital Employee**
Fasty Arum Utami^{1,2}, Emy Huriyati², Dinda Meirina Ristiananda², Nana Diana²
¹Taipei Medical University, Taiwan, ²Universitas Gadjah Mada, Indonesia

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- PS-02-a-222 The inhibitory effects of sweet orange (*Citrus sinensis*) peel on human hepatocellular carcinoma HepG2 cells, in vitro and in vivo**
Pin-Der Duh
Chia Nan University of Pharmacy and Science, Taiwan
- PS-02-a-223 Effects of konjac glucomannan and inulin on regulatory T cell, apoptosis and mucosa barrier in inflammation-induced colonic carcinogenesis in mice**
Wen-Tzu Wu, Hsiao-Ling Chen
Asia University, Taiwan
- PS-02-a-224 Effectiveness of post-surgical nutritional care in colorectal cancer patients**
Ponpis Raungkhajon, Chimrueng Kanjana, BenyaPanya Pakjira
Prince of Songklanagarin Hospital, Thailand
- PS-02-a-225 Food intake and the risk of endometrial endometrioid adenocarcinoma in Japanese women**
Shin Takayama¹, Yasutake Monma², 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
- PS-02-a-226 Hydrophobic Peptides for Enhancing the Water-Dispersibility of Paclitaxel**
Asuka Inada, Tatusya Oshima, Yoshinari Baba
University of Miyazaki, Japan
- PS-02-a-227 A possible role of Tocotrienol-Rich Fraction as an anti-cancer agent in prostate cancer**
Nobuya Shiozawa, Ryosuke Sugahara, Yu Sato, Asuka Uchida, Ayami Sato, Masako Ota, Tomohiro Yano
Toyo University, Japan
- PS-02-a-228 Effect of inhibition on cancer cell growth by glycolipid and phospholipid from *Torreya* seed**
Takayuki Tsukui, Yuhei Tokiwa, Yasushi Endo
Tokyo University of Technology, Japan
- PS-02-a-229 A redox-silent analogue of tocotrienol as a potential agent for inhibition of hypoxia adaptation in human prostate cancer cells**
Ryosuke Sugahara, Nobuya Shiozawa, Yu Sato, Asuka Uchida, Ayami Sato, Masako Ota, Tomohiro Yano
Toyo University, Japan
- PS-02-a-230 Anticancer effects of extract of the fruit of *Morinda citrifolia* (Noni) in breast cancer cell lines**
Komal Sharma, Shakti Deep Pachauri, Kiran Khandelwal, Jitendra Kumar Saxena, Anil Kumar Dwivedi, Manish Kumar Chourasia
CSIR-Central Drug Research Institute, India
- PS-02-a-231 Preventive effect of *Dioscorea japonica* on squamous cell carcinoma of mouse skin**
Yasunori Takeda¹, Izumi Tsukayama¹, Takuto Mega¹, Keisuke Toda¹, Mitsuki Tanaka¹, Yuki Kawakami¹, Takahashi Yoshitaka¹, Kei Yamamoto², Makoto Murakami², Toshiko Suzuki-Yamamoto¹
¹Okayama Prefectural University, Japan, ²Tokyo Metropolitan Institute of Medical Science, Japan
- PS-02-a-232 Oro-Nasal Dysfunctions Due to Adverse Effect of Cancer Therapy in Japan**
Misako Kawai¹, Setsuko Kuwahara^{2,3}, Masahiro Sunaga^{2,5}, Hiroki Matsubara^{2,4}, Noriko Aoki²
¹Ajinomoto Co., Inc., Japan, ²National Cancer Center Hospital, Japan, ³Shukutoku University, Japan, ⁴Funabashi Municipal Medical Center, Japan, ⁵National Hospital Organization Yokohama Medical Center, Japan
- PS-02-a-233 A novel dietary HDAC inhibitor triggers apoptosis via *BMF* induction**
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 Wang^{1,2,3}
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, Hyerim Song¹, So Young Park^{1,2}, Gyoo Taik Kwon^{1,2}, Je Tae Woo³, Jung Han Yoon Park^{1,2}
¹Hallym University, Korea, ²Seoul National University, Korea, ³Okinawa Research Center Co., Ltd., Japan

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- PS-02-a-236 The Effects of Nutrition Intervention in Head and Neck Cancer Patients**
Yu-Fen Lin, Ling Shen, Yu-Jen Lee
National Yang-Ming University Hospital, Taiwan
- PS-02-a-237 Sphingosine-1-phosphate suppresses cell survival through SH2-containing inositol 5-phosphatase 2 activation in PC-3 cells**
Dong-Gu Lin, Chaung-Yi Huang, Hebron C. Chang, Yuan-Li Huang
Asia University, Taiwan
- PS-02-a-238 Thrombospondin-2 promotes metastasis by down-regulation of miR-376c through the MAPK signaling pathway in human prostate cancer cells**
Liang-Wei Lin¹, Dong-Gu Lin¹, Po-Chun Chen², Chih-Hsin Tang², Yuan-Li Huang¹
¹*Asia University, Taiwan,* ²*China Medical University, Taiwan*
- PS-02-a-239 Investigate the Anti-tumor Effect of Herbal extract X814 on Canine Mammary Gland Tumors**
Chen-Si Lin, Yu-Ya Huang
National Taiwan University, Taiwan
- PS-02-a-240 The Effect of Resveratrol in Glioblastoma cells of the Human Brain Tumor**
Eunmi Park
Hannam University, Korea

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- PS-02-a-241 Double Burden Malnutrition Does Exist in Urban and Rural Adolescent of Indonesia**
Cesilia Meti Dwiriani, Hadi Riyadi, Ali Khomsan, Faisal Anwar, Mira Dewi
Bogor Agricultural University, Indonesia
- PS-02-a-242 Folic acid supplementation during pregnancy and its effect on the fetus and neonate**
Yuri Kintaka¹, Nobuhiro Wada⁴, Kouya Soba³, Yumika Maruo³, Fukita Mayuu³, Watabe Kotono³, Kanayama Ami³, Seiji Shioda²
¹*Jumonji University, Japan,* ²*Showa University, Japan,* ³*Rakuno Gakuen University, Japan,* ⁴*Tokyo University, Japan*
- PS-02-a-243 A multi-level analysis of individual and contextual determinants of infant mortality in the Philippines**
Leila S Africa, Corazon VC Barba
University of The Philippines Los Banos, Philippines
- PS-02-a-244 Maternal Education Levels Associated with Children Nutritional Status among Poor Families in Medan Indonesia**
Humaira Anggie Nauli, Zulhaida Lubis
University of Sumatera Utara, Indonesia
- PS-02-a-245 Effect of Periconceptional Multi Micronutrient Supplementation on Haemoglobin Concentration among Pregnant Women**
Anang S. Otoluwa¹, Nurhaedar Jafar¹, Burhanuddin Bahar¹, Abdul Salam¹, Aminuddin Syam¹, Asry Dwi Muqni¹, Yustiyanty Monoarfa², Muhammad Nur H Syah¹, Andi I. Arundhana¹, Abdul R. Thaha¹
¹*Hasanuddin University, Indonesia,* ²*Airlangga University, Indonesia*
- PS-02-a-246 Transition period for Mongolia to implement exclusive breastfeeding for 6 months policy**
Tsogzolmaa Bayandorj¹, Jon Pollock², Jenny Ingram³, Semira Manaseki-Holland⁴
¹*Public Health Institute, Mongolia,* ²*University of the West of England, UK,* ³*University of Bristol, UK,* ⁴*University of Birmingham, UK*
- PS-02-a-247 Dietary pattern and overweight and obesity among adolescents in Xi'an City, China**
Ming Li
University of South Australia, Australia
- PS-02-a-248 Nutrient Content Analysis of Commonly Consumed Fast-Foods of Adolescents in The Philippines**
Edwin Daryl A. Dy, Demetria C. Bongga, Cecile Klaudine C. Cabigas
University of the Philippines, Philippines
- PS-02-a-249 Association of Japanese dietary pattern and depressive symptoms among Japanese female employees**
Kanae Konishi¹, Tsukasa Muramatsu²
¹*Showa Woman's University, Japan,* ²*Japan Health Care College, Japan*

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- PS-02-a-250 Innovative nutritional education tool for at-risk hypertensive people in Thailand: A study in Ratchaburi Province**
Nipawan Thatthong, Kitti Sranacharoenpong, Nipa Rojroongwasinkul, Tippawan Pongcharoen
Mahidol University, Thailand
- PS-02-a-251 The relationship between nutrient status and bone turnover markers of young female football players**
Natsuko Sogabe, Masaki Okada, Yoshiko Tokita, Yoshiko Shinohara, Ichiro Nishiyama
Komazawa Women's University, Japan
- PS-02-a-252 Longitudinal association of serum carotenoids with pulse wave velocity: the Mikkabi study**
Mieko Nakamura¹, Minoru Sugiura², Toshiyuki Ojima¹
¹*Hamamatsu University School of Medicine, Japan*, ²*NARO Institute of Fruit Tree Science, National Agriculture and Food Research Organization, Japan*
- PS-02-a-253 Interaction between risk of chronic kidney disease and alcohol consumption in Japanese**
Yoshiro Shirai, Kiyonori Kuriki, Kaori Endoh, Shimpei Kawaguchi, Takayoshi Hisada, Yoshiaki Yamada, Yurika Goto, Toshinao Goda
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. Binns
Curtin University, Australia
- PS-02-a-256 The relationship between anthropometric measurements and diagnosis of pre-diabetes mellitus and pre-hypertension among United Arab Emirates University female students**
Ayesha Salem Al Dhaheeri, Maysm Nezar Mohamad, Amjad Hasan Jarrar
United Arab Emirates University, United Arab Emirates
- PS-02-a-257 Assessing Understanding of the DOHaD Hypothesis in Target Communities to Inform Translational Intervention Design**
Masahito Oyamada¹, Sarah Morgan^{2,3}, Robyn Dixon⁴, Clare Wall⁴, Jacquie Bay^{2,3}
¹*Fuji Women's University, Japan*, ²*University of Auckland, New Zealand*, ³*Gravida: National Centre for Growth and Development, New Zealand*, ⁴*University of Auckland, New Zealand*
- PS-02-a-258 Dairy foods consumption, anthropometric characteristics and human gut *Bifidobacterium* and *Lactobacillales* in Japanese**
Kiyonori Kuriki^{1,2,3}, Kaori Endoh^{1,2,3}, Takayoshi Hisada^{2,3}, Shimpei Kawaguchi^{2,3}, Chiho Goto⁴
¹*School of Food and Nutritional Sciences, Japan*, ²*Grad. Sch. Integ. Pharm. Nutr. Sci., Japan*, ³*University of Shizuoka, Japan*, ⁴*Nagoya Bunri University, Japan*
- PS-02-a-259 Nutritional status of schoolchildren in Kuantan, Pahang: A Preliminary study**
Roselawati Mat Ya, Wan Azdie Mohd Abu Bakar, Aflah Afandi, Siti Rokiah Mohd Hadzri
International Islamic University Malaysia (IIUM), Malaysia
- 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 Wang³
¹*Zhejiang University, China*, ²*Tongji Medical College, China*, ³*Huazhong 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 Park¹, Hyejung Kim¹, Seyoung Ju²
¹*Kyung Hee University, Korea*, ²*Dankook 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, Praiswan Tantiwattanasatein
Institute of Nutrition, Mahidol University, Thailand
- PS-02-a-263 Association between nutrient intake in the remote past and telomere length**
Inkyung Baik¹, Chol Shin²
¹*Kookmin University, Korea*, ²*Korea 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 Imai^{1,2}, Fujiko Ando^{1,3}, Hiroshi Shimokata^{1,4}
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- PS-02-a-265 A 7-year prospective study of anemia and loss of active life in older Japanese**
Yuri Yokoyama^{1,2,3}, Mariko Nishi¹, Hiroshi Murayama¹, Hidenori Amano¹, Yu Taniguchi¹, Yu Nofuji¹, Miki Narita¹, Eri Matsuo¹, Satoshi Seino^{1,2}, Yukari Kawano³, Shoji Shinkai¹
¹Tokyo Metropolitan Institute of Gerontology, Japan, ²Research Fellow of Japan Society for the Promotion of Science, Japan, ³Tokyo University of Agriculture, Japan
- 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 Tomida^{1,2}, Fujiko Ando^{1,3}, Hiroshi Shimokata^{1,4}
¹National Center for Geriatrics and Gerontology, Japan, ²Research Fellow of the Japan Society for the Promotion of Science, Japan, ³Aichi Shukutoku University, Japan, ⁴Nagoya University of Arts and Sciences, Japan
- PS-02-a-269 Improving the meal quality at nursing homes based on analysis of food texture of a soft diet**
Emi Watanabe¹, Masami Maeno², Yuki Kuwano¹, Risa Amano¹, Saki Yoshizawa¹, Tomoko Koda¹, Naoko Komenami³, Miho Kogirima¹
¹Doshisha Women's College, Japan, ²Long-term Care Health Facility Nukumorinosato, Japan, ³Kyoto Women's University, Japan
- PS-02-a-270 Dietary and plasma magnesium in conjunction with dietary quality reduce risk of all-cause of mortality in Taiwanese older adults**
Yi-Chen Huang¹, Meei-Shyuan Lee^{1,3}, Mark L. Wahlqvist^{2,3}
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 Takahashi², Yoshimi Kishimoto³, Chie Taguchi³, 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**
Junko Ohta¹, Hiroko Takaoka², Momoyo Seki¹, Rina Okajima¹, Kiyoshi Tanaka¹
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 Nabika, 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 Shimoda^{2,3}
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- PS-02-a-276 Assessment of community nutrition activities in Vietnam**
Kumiko Takanashi¹, 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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- 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 Hother, 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. Pascual^{1,2,12}, Christian Emmanuel Enriquez^{1,3}, Christine Querubin^{1,4}, John Paul Oira^{1,5}, Maria Christina Gurro^{1,6}, Florencio Dizon^{1,7}, Maria Melanie Alcausin^{1,15}, April Dion Berbos^{1,8}, Barbra Charina Cavan^{1,9}, J Edgar Posecion^{1,10}, Conchita Abarquez^{1,11}, Merlyn Mendioro^{1,12}, Aster Lynn Sur^{1,15}, Lita Orbillo¹³, Eva Maria Cutiongco-De La Paz^{1,15}, Carmencita D Padilla^{1,14}
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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**
 Somchoke Khunsanong¹, Pasamai Egkantrong¹, Atitada Boonpradern¹, Somboon Boonprasan², Orapin Banjong¹, Amporn Siri wattana³
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 Wilson¹, Timothy Kwok^{1,2}
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 Bunmakum, Thanyarat Gantiya, Pikulthong Khongthaworn, Pakchira Kumkiew, Rattanawan Sorachittiyotin, Yanatat Pothaya, Pongladda 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

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- PS-02-a-289 Develop culturally healthy recipes to prevent chronic disease in Chiang Mai province, Thailand**
Chadarat Kueasuk, Supranee Fosuwan
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**
Sanae 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. Mehedi Hasan¹, project team FSNSP^{1,2}
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**
Suvadra Datta Gupta¹, Jillian L. Waid¹, Project Team FSNSP^{1,2}
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 Dwiriani, Yoesniasani Dwi Meisya
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 Furuhashi¹, Naoko Sakurai⁴, Tanji Hoshi²
¹Wayo Women's University, Japan, ²Tokyo Metropolitan University, Japan, ³Tokiwa 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 Kodama², Akiko Koike¹, Masayuki Goto², Tadashi Furuhashi²
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- 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 Yamaguchi¹, Anna Y. Kharmats², Cara Shipley², 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, Saijuddin Shaikh¹, Zaynah T. Chowdhury¹, Sucheta Mehra¹, Saskia de Pee², Tahmeed Ahmed³, Keith P. West Jr.¹, Parul Christian¹
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- 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-Ichiro Takahashi², Shiro Minami¹
¹Nippon Medical School, Japan, ²The University of Tokyo, Japan
- PS-02-p-002 Effect of taurine on the induction of TXNIP expression in human intestinal epithelial Caco-2 cells**
Hideo Satsu¹, Hana Shimanaka², Yusuke Gondo², Kenji Watari¹, 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, Fumiaki Yoshizawa², Shin-Ichiro Takahashi³, Hisanori Kato³, Shiro Minami¹
¹Nippon Medical School, Japan, ²Utsunomiya University, Japan, ³The University of Tokyo, Japan
- PS-02-p-004 Collagen-derived dipeptides were detected in human breast milk**
Sachie Nakatani¹, Rina Kasai¹, Yoshifumi Kimira¹, Hiroshi Mano¹, Aya Kataoka², Fumihito Sugihara², 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 Hirabayashi¹, 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
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