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- PS-01-a-293 Development of Results-Based Monitoring and Evaluation Framework and Tool for the Capacity Building Program of Nutrition Workers in the Philippines**
Aileen R. de Juras, Ma. Theresa Talavera, Angelina Bustos, Nancy Tandang, Wilfredo Carada, Mayo Grace Amit, Nelson Jose Vincent Querijero
University of the Philippines Los Banos, Philippines
- PS-01-a-294 Associations of Household Income and Education with Eating Behaviors in Japanese Adults: A Cross-sectional Analysis**
Saki Nakamura¹, Takayo Inayama¹, Kikuko Hata¹, Munehiro Matsushita^{2,3}, Masaki Takahashi², Kazuhiro Harada⁴, Takashi Arao²
¹Tokyo Metropolitan University, Japan, ²Waseda University, Japan, ³National Institute of Health and Nutrition, Japan, ⁴National Center for Geriatrics and Gerontology, Japan
- PS-01-a-295 Fasting glucose as a useful predictor for cerebrovascular risk and its complication in non-diabetes: association with oxidative stress and inflammation**
Ga Yoon Na¹, Oh Yoen Kim¹, So Ra Yoon¹, Jae Hyang Lee¹, Jae-Kwan Cha²
¹Dong-A Univ., Korea, ²Dong-A University Hospital, Korea
- PS-01-a-296 Lower proportion of docosahexaenoic acid in serum phospholipids is associated with increased cardiovascular risk: inverse relationship with arterial stiffness**
Oh Yoen Kim¹, Mi-Hyang Lee^{1,2}, So Ra Yoon¹, Young-Guk Ko³, Jong Ho Lee²
¹Dong-A Univ., Korea, ²Yonsei Univ., Korea, ³Severance Hospital, Korea
- PS-01-a-297 Antrodia cinnamomea Alleviates Cisplatin-Induced Hepatotoxicity and Enhances Chemo-Sensitivity of Line-1 Lung Carcinoma Cells in Xenografted BALB/cByJ Mice**
Yi-Han Chiu¹, Tse-Hung Huang^{2,3}, Yi-Lin Chan⁴, Chang-Jer Wu¹
¹National Taiwan Ocean University, Taiwan, ²Chang Gung University, Taiwan, ³Chang Gung Memorial Hospital, Taiwan, ⁴Chinese Culture University, Taiwan

Poster Session 02

PM Nutritional Biochemistry 2

- PS-01-p-001 Three-time meal feeding approach for the mechanism of decreasing effect on energy intake of beet dietary fiber in rats**
Satoru Doi, Koichi Sejima, Yuka Kohara, Fumiya Kakihara, Taro Kishida
Ehime University, Japan
- PS-01-p-002 Colonic hydrogen derived from fructooligosaccharides reduces secretion of adipocytokines in obese rats and mice**
Tanabe Hiroki, Nonoka Matsumura, Tatsuro Yamamoto, Naomichi Nishimura
Nayoro City University, Japan
- PS-01-p-003 Noncompetitive inhibition of D-Tagatose and D-Allose on small intestinal sucrase activity in the rats**
Junko Kizu, Haruka Ozaki, Kumiko Okabe, Aoi Hosono, Kazuhiko Yamada
Kagawa Nutrition University, Japan
- PS-01-p-004 Effects of Gelidium amansii on lipids metabolism in diabetic rats**
Tsong-Han Yang, Hshuan-Chen Liu, Chun-Ju Chang, Meng-Tsan Chiang
National Taiwan Ocean University, Taiwan
- PS-01-p-005 Enhanced high sucrose diet preference in Elovl6 deficient mice**
Mariko Toh¹, Noriko Suzuki-kemuriyama², Yuki Fushimi², Eriko Yoshida², Hiroshi Ohno², Junko Kato², Matsuzaka Takashi², Nobuhiro Yamada², Kaoruko Iida¹, Hitoshi Shimano²
¹Ochanomizu University, Japan, ²University of Tsukuba, Japan
- PS-01-p-006 Influence of a fatty acid desaturase gene polymorphism on blood long-chain polyunsaturated fatty acids: comparison between young and elderly women**
Sayaka Horiguchi¹, Kazuhiro Nakayama², Sadahiko Iwamoto², Akiko Ishijima³, Takayuki Minezaki³, Mamiko Baba³, Yoshiko Kontai⁴, Chika Horikawa⁵, Hiroshi Kawashima⁵, Hiroshi Shibata⁵, Yasuo Kagawa¹, Terue Kawabata¹
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- PS-01-p-007 Induction of oxidative stress-induced growth inhibitor by docosahexaenoic acid is mediated through the PI3K/Akt/Nrf2 pathway in MCF-7 breast cancer cells**
Chia-Han Tsai¹, Ya-Li Huang^{1,2}, Chien-Chun Li^{1,3}
¹Chung Shan Medical University, Taiwan, ²Kaohsiung Municipal Kai-Syuan Psychiatric Hospital, Taiwan, ³Chung Shan Medical University Hospital, Taiwan
- PS-01-p-008 Different Effects of Docosahexaenoic Acid and Eicosapentaenoic acid on SKOV3 Human Ovarian Cancer Cells Migration and Invasion**
Chen-Yu Lin¹, Chien-Chun Li^{1,2}, Te-Chung Liu¹
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- PS-01-p-009 Effect of intranasal GALP on obesity and hepatic lipid metabolism in obese mice**
Satoshi Hirako¹, Haruaki Kageyama², Fumiko Takenoya³, Nobuhiro Wada¹, Mai Okabe⁴, Seiji Shioda¹
¹Showa University School of Medicine, Japan, ²Kiryu University, Japan, ³Hoshi University School of Pharmacy, Japan, ⁴Tokyo Shokuryo Dietitian Academy, Japan
- PS-01-p-010 Protective effects of different dietary proportion of fish oil on hepatic injury in chronic ethanol-fed rats**
Suh-Ching Yang, Ya-Ling Chen, Hsiang-Chi Peng, Yu-An Lu, Hsiao-Yun Chang, Hsiao Yun Wang, Yu-Ju Su
Taipei Medical University, Taiwan
- PS-01-p-011 Functional characterization of siphonaxanthin on lipid metabolism**
Jiawen Zheng, Zhuosi Li, Yuki Manabe, Tatsuya Sugawara
Kyoto University, Japan
- PS-01-p-012 Major Royal jelly Protein 1 (MRJP1) is a novel hypocholesterolemic protein derived from royal jelly**
Saori Asai¹, Yuri Kashima¹, Satoshi Kanematsu¹, Mio Kusada², Suzuyo Watanabe¹, Takuji Kawashima¹, Tadashi Nakamura¹, Masaya Shimada², Tsuyoshi Goto², Satoshi Nagaoka²
¹Akitaya Honten Co., Ltd., Japan, ²Gifu University, Japan
- PS-01-p-013 A novel hypocholesterolemic pentapeptide, lactostatin, inhibits cholesterol absorption via the suppression of ABCA1 gene expression in Caco-2 cells**
Yuji Sakai, Ayumi Komuro, Tatsuki Yamamoto, Masaya Shimada, Satoshi Nagaoka
Gifu University, Japan
- PS-01-p-014 Ingestion of gac (*Momordica cochinchinensis*) improves lipid metabolism by promoting differentiation to mature adipocytes**
Mitsuru Satsukawa¹, Tetsuhiro Kawamoto¹, Byung-Yoon Cha², Je-Tae Woo², Natsumi Yamanaka², Noriko Ogawa²
¹Tokai Pickling Co., Ltd., Japan, ²Chubu University, Japan
- PS-01-p-015 Effects of Alpha-Linolenic Acid in Green Nut Oils on Eicosapentaenoic Acid and Docosahexaenoic Acid synthesis in various organs**
Michiko Oiwa, Emiko Takeyama, Masako Fukushima, Asami Shirakawa, Mizuki Naito, Keiko Mitsuki, Saki Yajima
Showa Woman's University, Japan
- PS-01-p-016 Effects of Dietary Plant-origin Glucosylceramide on Bowel Inflammation in DSS-treated mice**
Mikiio Kinoshita¹, Katsuhito Arai¹, Yu Mizobuchi¹, Shinji Yamashita¹, Kazuhiko Aida², Masao Ohnishi¹
¹Obihiro University, Japan, ²Nippon Flour Mills Co. Ltd., Japan
- PS-01-p-017 The Preventive Effects of Astaxanthin and Various Dietary n-6/n-3 Fatty Acids on Induced Oral Carcinoma**
An Liang^{1,3}, Shih-Yi Huang^{1,3}, Hsiu-Chuan Lee^{1,2,3}
¹School of Nutrition and Health Sciences, ²Program for Translation Medicine, ³Taipei Medical University, Taiwan
- PS-01-p-018 The Preventive Effect of N-3 Polyunsaturated Fatty Acids on Cognitive Decline and Depressive Behavior in Aged Metabolic Syndrome Rats**
Yu-Ru Guo¹, Shih-Yi Huang¹, Hsiu-Chuan Lee¹
Taipei Medical University, Taiwan
- PS-01-p-019 Gamma-Linolenic Acid Inhibits Lewis Lung Carcinoma Conditioned Medium-Induced Inflammation and Protein degradation in C2C12 Myotubes**
Pei-Yin Chen, Kai-Li Liu, Whei-Ling Chiang
Chung Shan Medical University, Taiwan

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- PS-01-p-020 Effect of medium-chain triglycerides on cancer cachexia induced muscle wasting**
Yu-Hui Shih, Kai-Li Liu, Te-Chung Liu
Chung Shan Medical University, Taiwan
- PS-01-p-021 Hypocholesterolemic Effects of Lactic Acid-Fermented Soymilk on Rats Fed a High Cholesterol Diet**
Maki Kobayashi¹, Shintaro Egusa³, Mitsuru Fukuda²
¹Hyogo University, Japan, ²Mukogawa Women's University, Japan, ³MARUSAN-AI Co., Ltd., Japan
- PS-01-p-022 Interrelated effects of fish oil and alpha-lipoic acid on hepatic fatty acid synthesis and parameters for oxidative stress in rats**
Takashi Ide, Mizuki Jimbo, Ayaka Itakura, Saori Okano, Mayuko Kameiwa, Miki Kawaziri, Arisa Sitara, Nozomi Takahashi
Jumonji University, Japan
- PS-01-p-023 Comparative LDL-Cholesterol-Lowering Effects of Tea Seed Oil and Olive Oil in Hamsters**
Nuchanart Suealek¹, Wallace Yokoyama², Panadda Rojpbulstit¹, Hyunsook Kim³, Robert Hackman⁴
¹Thammasat University, Thailand, ²U.S. Department of Agriculture, USA, ³Konkuk University, Korea, ⁴University of California, USA
- PS-01-p-024 Histopathological Changes Of The Hamster Internal Organs After Ingestion High-Grape Seed Oil Diet**
Panadda Rojpbulstit¹, Nuchanart Suealek¹, Wallace Yokoyama², Hyunsook Kim³, Robert Hackman⁴
¹Thammasat University, Thailand, ²U.S. Department of Agriculture, USA, ³Konkuk University, Korea, ⁴University of California, USA
- PS-01-p-025 Effects of kombu powder feeding on glucose and lipid metabolism of rats**
Hitomi Fukuda, Mika Kouno, Michiko Katsukawa, Sonomi Okuno, Nobuko Iritani
Tezukayama Gakuin University, Japan
- PS-01-p-026 Intestinal digestion of ceramide 2-aminoethylphosphonate, a marine sphingolipid from squid**
Nami Tomonaga, Dan Qi, Yuki Manabe, Tatsuya Sugawara
Kyoto University, Japan
- PS-01-p-027 Effects of eicosapentaenoic acid on anxiety-like behavior in rat**
Yasuyo Oshima, Takeshi Harada, Shun Endo, Asako Takenaka
Meiji University, Japan
- PS-01-p-028 The effect of fatty acid composition of the Japanese food on the visceral fat accumulation**
Yu Sakamoto, Tsuyoshi Tsuduki
Tohoku University, Japan
- PS-01-p-029 Effect of Monascus-Purpureus supplementation on decrease LDL and cholesterol level in Hyperlipidemia:Double blind, placebo control study**
Sheng-Fu Liu, Ying-Ruei Wang, Chin-Kun Wang
Chung Shan Medical University, Taiwan
- PS-01-p-030 Comparison of catabolic rates of ¹³C-labeled palmitic acid bound to alpha and beta positions of triacylglycerol using expired CO₂**
Naohiro Gotoh¹, Fumiaki Beppu¹, Kaoru Konno¹, Takashi Kawamatsu¹, Toshiharu Nagai², Kazuaki Yoshinaga², Hoyo Mizobe², Koichi Kojima², Hiroyuki Watanabe³
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- PS-01-p-031 Acute Effects of walking exercise on postprandial carbohydrate and lipoprotein metabolism following cookie ingestion in Japanese female students**
Sayuki Hashimoto¹, Erika Mizutani², Akihiro Yoshida³, Michitaka Naito⁴
¹Kinjo Gakuin University, Japan, ²College of Nagoya Bunri University, Japan, ³Nakatsugawa Municipal General Hospital, Japan, ⁴Sugiyama Jogakuen University, Japan
- PS-01-p-032 Association between Physical Fitness and Lipid Profil of Overweight Students**
Nazhif Gifari, Hardinsyah Ridwan
Bogor Agricultural University, Indonesia
- PS-01-p-033 Effects of dietary intake of butyrate on GLUT-4 content in rat skeletal muscle**
Yudai Nonaka¹, Kazuhiko Higashida², Michiyo Kimura³, Shin Terada¹
¹The University of Tokyo, Japan, ²Waseda University, Japan, ³Takasaki University of Health and Welfare, Japan

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- PS-01-p-034 Effects of D-allulose, a C3 epimer of D-fructose, on lipid metabolism in isolated rat hepatocytes**
Akane Kanasaki¹, Taishi Suzuki¹, Norihiro Torisu¹, Yohei Noguchi¹, Yasuo Nagata^{1,2}, Shizuka Tamaru¹, Kazunari Tanaka¹
¹University of Nagasaki, Siebold, Japan, ²Nagasaki University, Japan
- PS-01-p-035 The relationship between body composition and intramuscular lipids in young healthy female**
Chisato Nakada¹, Takuya Osawa², Yoshikazu Takanami³, Sakina Yoshida³, Yukari Kawai⁴
¹Otsuma Women's University, Japan, ²Japan Institute of Sports Sciences, Japan, ³Otsuma Women's University, Japan, ⁴Louis Pasteur Center for Medical Research, Japan
- PS-01-p-036 Analysis of genomic region controlling the development of high-fat diet-induced fatty liver using congenic mice**
Miyako Suzuki, Misato Kobayashi, Tamio Ohno, Junko Tsujimura, Hiroaki Oda, Atsushi Murai, Fumihiko Horio
Nagoya University, Japan
- PS-01-p-037 Detection of glycosylceramide species of koji *Aspergillus oryzae* by ESI-MS/MS and fragment ion analysis**
Hiroshi Hamajima, Susumu Mitsutake, Koji Nagao, Hiroshi Kitagaki
Saga University, Japan
- PS-01-p-038 Serum fatty acid composition of neonates, infants and young people measured by gas chromatography mass spectrometry**
Fumie Nishijima¹, Eiko Hidaka¹, Noriko Kubota¹, Takako Ono¹, Tomohiko Nakamura¹, Takayuki Honda², Minoru Hongo², Hiroya Hidaka²
¹Nagano Children's Hospital, Japan, ²Shinshu University, Japan
- PS-01-p-039 Direct separation of the diastereomers of phosphatidylcholine hydroperoxide bearing 13-hydroperoxy-9Z,11E-octadecadienoic acid using chiral stationary phase HPLC**
Junya Ito¹, Kiyotaka Nakagawa¹, Shunji Kato¹, Toshiharu Nagai², Teruo Miyazawa¹
¹Tohoku University, Japan, ²Tsukishima Foods Industry Company, Japan
- PS-01-p-040 Analysis of human serum sphingomyelin molecular species using MALDI-TOF mass spectrometry**
Atsushi Hori¹, Mine Yamashita², Shuhei Kidoguchi³, Minoru Hongo¹, Takayuki Honda¹, Hiroya Hidaka¹
¹Shinshu University, Japan, ²University of Toyama, Japan, ³University of Fukui, Japan
- PS-01-p-041 Dioscorea japonica extract suppresses cyclooxygenase-2 and microsomal prostaglandin E synthase-1 in lung carcinoma A549 cells and macrophage-like RAW264 cells**
Keisuke Toda¹, Izumi Tsukayama¹, Takuto Mega¹, Mitsuki Tanaka¹, Yasunori Takeda¹, Toshiya Arakawa², Yuki Kawakami¹, Masumi Kimoto¹, Yoshitaka Takahashi¹, Toshiko Suzuki-Yamamoto¹
¹Okayama Prefectural University, Japan, ²Health Science University of Hokkaido, Japan
- PS-01-p-042 The influence of n-3 fatty acid on maternal behavior and brain monoamine content in the perinatal period**
Akiko Harauma, Takayuki Sagisaka, Taku Horii, Shunichi Nakamura, Natsuko Wakinaka, Yoshitake Watanabe, Toru Moriguchi
Azabu University, Japan
- PS-01-p-043 The effects of arachidonic acid and/or docosahexaenoic acid on the brain development using artificial rearing of delta-6-desaturase knockout mice**
Erisa Hatanaka¹, Hidemi Yasuda¹, Akiko Harauma¹, Junnosuke Watanabe¹, Yoshiko Konishi¹, Manabu Nakamura², Norman Salem³, Toru Moriguchi¹
¹Azabu University, Japan, ²University of Illinois, USA, ³DSM Nutritional Products
- PS-01-p-044 LC-MS/MS analysis of choline/ethanolamine plasmalogens via promotion of alkali metals adduct formation**
Yurika Otoki, Shunji Kato, Kiyotaka Nakagawa, Teruo Miyazawa
Tohoku University, Japan
- PS-01-p-045 The potential of bitter melon in prevention of non-alcoholic fatty liver disease**
Mei-Ling Chang¹, Zhong-Hao Chien², Shao-Chun Lu²
¹Shih Chien University, Taiwan, ²National Taiwan University, Taiwan

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- PS-01-p-046 Effect of mixed tea made with unripe *Citrus Unshiu* and third-crop green tea leaves on hepatic lipid accumulation in rats**
 Shizuka Tamaru¹, Mirei Iha¹, Sayaka Shimamoto¹, Hisayuki Nakayama^{1,2}, Sadayuki Aramaki², Yuji Miyata², Takashi Tanaka³, Toshiro Matsui⁴, Yasuo Nagata^{1,3}, Kazunari Tanaka¹
¹University of Nagasaki, Siebold, Japan, ²Nagasaki Agricultural and Forestry Technical Development Center, Japan, ³Nagasaki University, Japan, ⁴Kyushu University, Japan
- PS-01-p-047 Juar tea consumption increases endothelium-bound extracellular superoxide dismutase levels in men with metabolic syndrome : link with LDL oxidizability**
 Harumi Kondo¹, Makoto Ayaori¹, Yoshimi Kishimoto², Tetsuo Adachi³, Kazuo Kondo², Katsunori Ikekaki³
¹National Defense Medical College, Japan, ²Ochanomizu University, Japan, ³Gifu Pharmaceutical University, Japan
- PS-01-p-048 Inhibitory effect of nutmeg extract on 5-lipoxygenase activity**
 Yuki Kawakami, Yoshiko Mori, Kensuke Okamoto, Shuji Okochi, Toshiko Suzuki-Yamamoto, Masumi Kimoto, Hiromi Yamashita, Hideyuki Ito, Yoshitaka Takahashi
 Okayama Prefectural University, Japan
- PS-01-p-049 Effects of fish oil on the oxidative stress in obese Zucker rats**
 Yasue Hosoyamada, Masako Yamada
 Chiba Prefectural University of Health Sciences, Japan
- PS-01-p-050 Theoretical Interaction Analysis of Free Fatty Acid Receptor, GPR40 and GPR120 with omega-3 and omega-6 FFAs based on FMO Method**
 Yuka Nakano¹, Erika Ishitsubo¹, Kohsuke Hayamizu², Li Han², Tomoko Tsuji², Yasuo Watanabe³, Shizuo Yamada⁴, Hiroaki Tokiwa¹
¹Rikkyo University, Japan, ²Nippon Suisan Kaisha, Ltd., Japan, ³Yokohama College of Pharmacy, Japan, ⁴Univ. Shizuoka, Japan
- PS-01-p-051 Effect of dietary astaxanthin on UVA-induced skin photoaging in hairless mice**
 Toshiyuki Komatsu¹, Suguru Sasaki¹, Yuki Manabe¹, Hitomi Sato², Takashi Hirata³, Tatsuya Sugawara¹
¹Kyoto University, Japan, ²FUJIFILM Corporation, Japan, ³Shijonawate Gakuen University, Japan
- PS-01-p-052 Effect of n-3 PUFA-rich TGs on Lipid Metabolism of Obese/diabetic KK-Ay Mice**
 Masashi Hosokawa, Kazuhiro Hashimoto, Yuki Sawada, Kazuo Miyashita
 Hokkaido University, Japan
- PS-01-p-053 Comparison of the effects of EPA and DHA on the development of NASH**
 Noriko Kemuriyama, Takashi Matsuzaka, Takeuchi Yoshinori, Nakagawa Yoshimi, Yahagi Naoya, Yamada Nobuhiro, Shimano Hitoshi
 University of Tsukuba, Japan
- PS-01-p-054 Characteristic MS/MS spectra of fatty acid hydroperoxide isomers recorded in the presence of alkali metals**
 Shunsuke Mizuochi, Shunji Kato, Junya Ito, Kiyotaka Nakagawa, Teruo Miyazawa
 Tohoku University, Japan

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Nutritional Physiology 2

- PS-01-p-055 Propolis supplementation modulates the angiogenic response to unloading in soleus muscle of rats**
 Miho Kanazashi¹, Masayuki Tanaka¹, Ryosuke Nakanishi¹, Yusuke Hirayama¹, Toshiyuki Maezawa¹, Hiroyo Kondo², Akihiko Ishihara³, Hidemi Fujino¹
¹Kobe University, Japan, ²Nagoya Women's University, Japan, ³Kyoto University, Japan
- PS-01-p-056 Effects of the intake of polyphenol on the recovery from anemia in mice**
 Michiyo Kaneko¹, Takehiko Kaneko², Miho Fujita¹, Satomi Mizuhara¹
¹Kobe Women's University, Japan, ²Wayo Women's University, Japan
- PS-01-p-057 Protective effects of omega-3 fatty acids on capillary regression in soleus muscle of hindlimb unloaded rats**
 Masayuki Tanaka¹, Miho Kanazashi¹, Ryosuke Nakanishi¹, Yusuke Hirayama¹, Toshiyuki Maezawa¹, Hiroyo Kondo², Akihiko Ishihara³, Hidemi Fujino¹
¹Kobe University Graduate School of Health Sciences, Japan, ²Nagoya Women's University, Japan, ³Kyoto University, Japan

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- PS-01-p-058 Association of n-3 polyunsaturated fatty acid levels with sleep disturbance in major depressive disorder**
Norie Koga, Kotaro Hattori, Hiroaki Hori, Hiroshi Kunugi
National Institute of Neuroscience, National Center of Neurology and Psychiatry (NCNP), Japan
- PS-01-p-059 The influence of maternal inflammation during gestation on postnatal allergic diseases in murine models**
Atsuko Imai, Eka Fujimoto, Kazuto Sato
Japan Women's University, Japan
- PS-01-p-060 Effects of dietary phosphatidylcholine on postprandial lymphatic inflammatory cytokine levels in rats**
Bungo Shirouchi, Asuka Kawauchi, Yumiko Furukawa, Yuko Arima, Masao Sato
Kyushu University, Japan
- PS-01-p-061 The Effects of VIA Instant Coffee on Bench Press Performance: The Effects of Habituation**
Sean M Mohny, Stephanie Stepp, Grant Slack, Amanda Wise, David Richter, Mike Frank, Sarah Schleich, Andrew Dunn, Lonnie Lowery
University of Mount Union, USA
- PS-01-p-062 Excitement and calm in Japanese cuisine : Effects of Kaiseki style dishes on mood states and autonomic nerve activity**
Takuji Takahashi^{1,2}, Kohei Takada², Hanae Yamazaki³, Tohru Fushiki²
¹Kinobu restaurant, Japan, ²Kyoto University, Japan, ³Ryukoku University, Japan
- PS-01-p-063 Study on Physiological Function of Lipid Nanoemulsions**
Kazuaki Kishita¹, Kenji Yamamoto², Shingo Hamayama², Masataka Shimizu², Kazuo Nishiyama¹, Masao Yamasaki¹
¹University of Miyazaki, Japan, ²Miyazaki Prefecture Industrial Technology Center, Japan
- PS-01-p-064 Panaxatriol from *Panax notoginseng* stimulates mTORC1 signaling after resistance exercise in rat skeletal muscle**
Yusuke Takamura^{1,2}, Yuhei Makanae², Satoru Ato², Naomi Yoshii², Mitsuru Nomura¹, Akira Uchiyama¹, Naruhiro Shiozawa², Satoshi Fujita²
¹LION Corporation, Japan, ²Ritsumeikan University, Japan
- PS-01-p-065 Transcriptomic analysis identifies novel genes expression in response to choline deficiency in mouse liver and in rat primary hepatocytes**
Rina Watanabe, Kouji Mitsumoto, Hisaki Yonenaka, Takao Hashimoto, Norihisa Kato, Noriyuki Yanaka
Hiroshima University, Japan
- PS-01-p-066 Development of a new method for determination of central fatigue with intracranial self-stimulation**
Kazuo Inoue, Satomi Ihi, Satoko Ueno, Miki Isono, Hiromitsu Nagayoshi, Fushiki Tohru
Kyoto University, Japan
- PS-01-p-067 Beta-cryptoxanthin inhibits osteoclast functions in inflammatory bone resorption**
Ryota Ichimaru, Tsukasa Tominari, Matsumoto Chiho, Hirata Michiko, Inada Masaki, Miyaura Chisato
Tokyo University of Agriculture and Technology, Japan
- PS-01-p-068 Effects of insulin and glucagon on glucose metabolism in primary hepatocytes from rats with spontaneous type 2 diabetes mellitus**
Miwako Deguchi¹, Riho Kobayashi¹, Akemi Hosoda¹, Azumi Yamagishi¹, Hiroaki Oda², Dong-Ho Kim¹, Shigeru Saeki¹
¹Osaka City University, Japan, ²Nagoya University, Japan
- PS-01-p-069 Study on the cell survival regulation by lipids**
Shota Nomiyama
University of Miyazaki, Japan
- PS-01-p-070 Interaction between circadian rhythm and chocolate intake in mice**
Yuko Ikeda, Hiroyuki Sasaki, Yuta Hattori, Mayo Kamagata, Shigenobu Shibata
Waseda University, Japan
- PS-01-p-071 Soybean and Tempe Consumption Do Not Affect Serum Uric Acid Levels in Sprague-Dawley Rats**
Dadi H Maskar, Hardinsyah Hardinsyah, Damayanthi Evy, Astawan Made, Wresdiyati Tuti
Bogor Agricultural University, Indonesia

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- PS-01-p-072 Evaluation of the odor masking of dimethyl sulfide by fragrance chemicals in foods**
Kazumi Osada
Health Sciences University of Hokkaido, Japan
- PS-01-p-073 The effect due to the interaction of different energy and macronutrients ratio on postprandial metabolism**
Hidekazu Arai, Chisato Toda, Erika Seki, Yuuya Kajiya, Masae Sakuma
University of Shizuoka, Japan
- PS-01-p-074 The role of advanced glycation end products on growth of endometrial cancer**
Hsin-Yuan Chen, Li-Chung Lin, Yen-Ting Tung, Ting-Fang Cheng, Shih-Min Hsia
Taipei Medical University, Taiwan
- PS-01-p-075 The role of advanced glycation end products on growth of leiomyoma**
Ting-Fang Cheng, Yen-Ting Tung, Hsin-Yuan Chen, Li-Chung Lin, Shih-Min Hsia
Taipei Medical University, Taiwan
- PS-01-p-076 Orientation of the histidine decarboxylase immunoreactive neurons in the rat and mouse hypothalamus**
Chinatsu Moriwaki^{1,2}, Seiichi Chiba², Taishi Aosa², Hirokazu Kitamura², Keisuke Ina², Yoshihisa Fujikura²
¹*Nakamura Gakuen University Junior College, Japan*, ²*Oita University, Japan*
- PS-01-p-077 Effects of cold exposure on energy metabolism-related genes expressions in rats with spontaneous metabolic syndrome**
Misato Ikutani, Miwako Deguchi, Fumikazu Hayashi, Akemi Hosoda, Azumi Yamagishi, Shin Ebihara, Dong-Ho Kim, Shigeru Saeki
Osaka City University, Japan
- PS-01-p-078 Effects of monosodium glutamate on metabolic disorders in low-birth-weight rats**
Kumiko Takemori, Anna Miyamoto, Tsukasa Tatsumi, Takashi Kometani
Kinki University, Japan
- PS-01-p-079 Role of Soy Protein and Polydextrose on Appetite and Glycemic Control**
Christiani Jeyakumar Henry
*A*star, Singapore*
- PS-01-p-080 FGF21 ameliorates methionine-choline deficient diet-induced fatty liver**
Ryuto Maruyama¹, Makoto Shimizu¹, Jun Inoue¹, Nobuyuki Itoh², Ryuichiro Sato¹
¹*University of Tokyo, Japan*, ²*Kyoto University, Japan*
- PS-01-p-081 AMPK and PPARdelta Activation Improves Endurance in Trained Mice**
Mark Christian C. Manio, Kazuo Inoue, Ai Eguchi, Mina Fujitani, Takayuki Irahara, Tohru Fushiki
Kyoto University, Japan
- PS-01-p-082 Effects of chronic intake of acetate on muscle fiber type and endurance performance**
Hiromi Yamashita, Chihiro Araoka, Yukihiro Yoshimura, Aya Araki, Masumi Kimoto
Okayama Prefectural University, Japan
- PS-01-p-083 The effect of starvation in weaning period on diet-related changes in the expression of inflammation-related genes in the adipose tissue**
Kazue Honma¹, Riko Mawatari¹, Misa Ikeda¹, Kazuki Mochizuki², Toshinao Goda¹
¹*University of Shizuoka, Japan*, ²*University of Yamanashi, Japan*
- PS-01-p-084 Chronic skipping breakfast decrease diet-induced thermogenesis**
Takuya Taira¹, Shizuka Ogawa¹, Yuka Watanabe², Hisao Fujii², Morimasa Kato¹
¹*Yamagata Prefectural Yonezawa University of Nutrition Sciences, Japan*, ²*Sendai University, Japan*
- PS-01-p-085 Ketogenic diet induces a unique metabolic state in heart and skeletal muscles**
Yuiko Hatanaka, Ayano Naka, Kozue Shimizu, Kaoruko Iida
Ochanomizu University, Japan
- PS-01-p-086 Identification of novel fish-derived peptides lowering blood glucose in mice**
Tatsuhiko Ayabe¹, Wakana Ota¹, Takafumi Mizushige¹, Kohsuke Hayamizu², Kaori Yokoi², Li Han², Tomoko Tsuji², Ryuhei Kanamoto¹, Kousaku Ohinata¹
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- PS-01-p-087 Effect of caffeine, capsaicin, and several amino acids on the lipid metabolism from chrononutritional view**
Kenichiro Misawa, Yuko Ikeda, Shigenobu Shibata
Waseda University, Japan
- PS-01-p-088 Ubiquitin ligase Cbl-b is a negative regulator for insulin-like growth factor 1 signaling during muscle atrophy caused by unloading**
Takayuki Uchida¹, Takeshi Nikawa¹, Tomoki Abe¹, Shohei Kohno², Katsuya Hirasaka³, Ayako Ohno¹, Shigetada Kondo¹, Yuushi Okumura⁴, Edward M. Mills^{2,3}
¹University of Tokushima, Japan, ²University of Texas at Austin, USA, ³Nagasaki University, Japan, ⁴Sagami Women's University, Japan
- PS-01-p-089 Effect of Yamabushitake mushroom (*Hericium erinaceus*) intake on functional and physicochemical properties of skeletal muscle in mice**
Wataru Mizunoya, Toshiya Nakamura, Daisuke Imoto, Yusuke Komiya, Fuminori Kawabata, Mako Nakamura, Ryuichi Tatsumi, Yoshihde Ikeuchi
Kyushu University, Japan
- PS-01-p-090 Change of energy expenditure and circulation after single oral dose of flavan-3-ols are induced by the stimulation of sympathetic nerve**
Naomi Osakabe, Kodai Inagawa, Naoya Kamio, Rikihiko Ebe, Takuma Suzuki, Masahiro Shibata
Shibaura Institute of Technology, Japan
- PS-01-p-091 Effect of fructose on the phosphorylation of AMP-activated protein kinase and acetyl-CoA carboxylase in HepG2 cells stimulated with placental lactogen**
Yuuka Mukai¹, Yui Miyamoto¹, Shin Sato²
¹Kanagawa University of Human Services, Japan, ²Aomori University of Health and Welfare, Japan
- PS-01-p-092 Differential effects of dietary restriction and exercise on lipolysis capacity in white adipose tissue**
Yuka Kurosaka^{1,2}, Hideki Yamauchi¹, Yoko Shiroya², Kumiko Minato²
¹Jikei University Of Medicine, Japan, ²Wayo Women's University, Japan
- PS-01-p-093 Study of the interaction between sterol response element-binding protein (SREBP) and SREBP cleavage-activating protein**
Yen-Chou Kuan, Makoto Shimizu, Jun Inoue, Makoto Ryuichiro Sato
The University of Tokyo, Japan
- PS-01-p-094 Transient deficit in energy and carbohydrate increases 24-h fat oxidation**
Kaito Iwayama¹, Nana Kurosawa¹, Hitomi Ogata¹, Momoko Kayaba¹, Insung Park¹, Katsuhiko Yajima², Fumi Kobayashi¹, Kazuteru Nakamura³, Maki Sato¹, Naomi Omi¹, Masanobu Hibi⁴, Sachiko Oishi⁴, Koichi Yasunaga⁴, Kumpei Tokuyama¹
¹University of Tsukuba, Japan, ²Tokyo Seiei College, Japan, ³Ibaraki Christian University, Japan, ⁴Kao Corporation, Japan
- PS-01-p-095 Oolong, black and pu-erh tea suppresses adiposity in mice via activation of AMP-activated protein kinase**
Yoko Yamashita, Liuqing Wang, Hitoshi Ashida
Kobe University, Japan
- PS-01-p-096 Acetic acid increases adenosine monophosphate level and phosphorylation of AMP-activated protein kinase in skeletal muscles**
Aya Araki, Yoshimura Yukihiko, Morikami Naoko, Kimoto Masumi, Yamashita Hiromi
Okayama Prefectural University, Japan
- PS-01-p-097 Comparison of flavan-3-ols components on the sympathetic nerve stimulation activity**
Yuta Nakagawa, Satomi Abe, Naomi Osakabe
Shibaura Institute of Technology, Japan
- PS-01-p-098 Physiological Effects of L-Theanine on Sleep Onset and Quality of Sleep**
Makato Ozeki¹, Mahendra P. Kapoor¹, Shuichiro Shirakawa³, Tsutomu Okubo¹
¹Taiyo Kagaku Co. Ltd., Japan, ²National Institute of Mental Health, Japan

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- PS-01-p-099 Antimicrobial effect of spices for extended shelf life of Spare rib Ham**
Jirawan Oonmettaaree
Nakhon Ratchasima Rajabhat University, Thailand
- PS-01-p-100 The study of the difference in feeding behavior elicited by hunger or palatability**
Tatsuya Okahashi, Kazuhiro Sakamoto, Shigenobu Matsumura, Satoshi Tsuzuki, Kazuo Inoue, Tohru Fushiki
Kyoto University, Japan
- PS-01-p-101 Effect of rice powder on the texture and viscoelasticity of Starch gels and Gomatofu**
Emiko E Sato, Aki A Hasebe
University of Niigata Prefecture, Japan
- PS-01-p-102 Changes in content of functional elements in onion extract by heat-treatment**
Takanori Suzuki¹, Shigenobu Shiotani¹, Nobuya Yanai^{1,2}
¹Tokai Bussan Co., Ltd., Japan, ²National Food Research Institute, NARO, Japan
- PS-01-p-103 Salacinol and Related Analogs, New Leads for Type 2 Diabetes Therapeutic Candidates from the stems of *Salacia chinensis***
Junji Akaki^{1,2}, Toshio Morikawa¹, Kiyofumi Ninomiya¹, Eri Kinouchi¹, Genzoh Tanabe², Yutana Pongpiriyadacha³, Masayuki Yoshikawa¹, Osamu Muraoka¹
¹Kinki University, Japan, ²Kobayashi Pharmaceutical Co., Ltd., Japan, ³Rajamangala University of Technology, Thailand
- PS-01-p-104 Search for Chemokine Receptor CCR3 Selective Antagonist as Anti-allergic Principles from Mace, the Arils of *Myristica fragrans***
Ikuko Hachiman, Kazuhiko Matsuo, Kiyofumi Ninomiya, Osamu Muraoka, Takao Hayakawa, Takashi Nakayama, Toshio Morikawa
Kinki University, Japan
- PS-01-p-105 Phenylpropanoids from *Alpinia galanga* with Lipid Metabolism-promoting Activity in High Glucose-pretreated HepG2 cells**
Yoshiaki Manse¹, Kiyofumi Ninomiya¹, Ryosuke Nishi¹, Chie Sakai¹, Saowanee Chaipech², Takao Hayakawa¹, Osamu Muraoka¹, Toshio Morikawa¹
¹Kinki University, Japan, ²Rajamangala University of Technology Srivijaya, Thailand
- PS-01-p-106 Effects of Extraction Conditions on quality and antioxidant activity of Purple Corn Cob KPSC 903 extracts**
Udomlak Sukatta, Prapassorn Rugthaworn, Wetanee Suravanichnirachorn, Ketsaree Klinsuknon, Lalita Khacharat, Thanapoom Maneeboon
Kasetsart University, Thailand
- PS-01-p-107 Acylated Saponins from Tea Flower, the Flower Buds of *Camellia sinensis*, with Anti-proliferative Effects on Human Digestive Tract Carcinoma Cells**
Chiaki Motai^{1,2}, Niichiro Kitagawa^{1,2}, Kiyofumi Ninomiya¹, I-Jung Lee³, Masayuki Yoshikawa¹, Osamu Muraoka¹, Toshio Morikawa¹
¹Kinki University, Japan, ²Koshiro Co., Ltd., Japan, ³National Research Institute of Chinese Medicine, Taiwan
- PS-01-p-108 Flavonol Glycosides from Tea Flower, the Flower Buds of *Camellia sinensis*, with Lipid Accumulation Inhibitory Activity**
Shuhei Okugawa^{1,2}, Niichiro Kitagawa^{1,2}, Kiyofumi Ninomiya¹, I-Jung Lee³, Masayuki Yoshikawa¹, Osamu Muraoka¹, Toshio Morikawa¹
¹Kinki University, Japan, ²Koshiro Co., Ltd., Japan, ³National Research Institute of Chinese Medicine, Taiwan
- PS-01-p-109 Hot water extract of edible *Chrysanthemum morifolium* Ramat. exert antidiabetic effects in obese diabetic KK-A^y mice**
Junpei Yamamoto, Miki Tadaishi, Takumi Yamane, Yuichi Oishi, Makoto Shimizu, Kazuo Kobayashi-Hattori
Tokyo University of Agriculture, Japan
- PS-01-p-110 Antioxidant and neuronal PC12 cell protective effects of flavonoids from *Epimedium koreanum* on hydrogen peroxide-induced oxidative damage**
Miran Jang, Gun-Hee Kim, Sunghyun Lee
Duksung Women's University, Korea

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- PS-01-p-111 Identification of chlorogenic acid lactones as xanthine oxidase inhibitors produced during the roasting process of coffee beans**
Sari Honda¹, Akiko Masuda², Kento Moriyama², Toshiya Masuda¹
¹University of Tokushima, Japan, ²Shikoku University, Japan
- PS-01-p-112 The anticarcinogenicity of microalgae, *Nostoc* genus**
Akihiro Ohara¹, Mafumi Kawamura¹, Yuji Yamaguchi², Hiroyuki Takenaka², Ken-ichiro Minato¹
¹Meijo University, Japan, ²MAC Gifu Research Institute, Microalgae Co., Japan
- PS-01-p-113 *In vitro* metabolism of kaempferol tetramethylether by rat liver microsomes**
Kenta Yamamoto¹, Chiho Ohta¹, Hitomi Ogata¹, Tetsuya Endo², Osamu Kimura², Yoshihisa Kato³, Koichi Haraguchi⁴, Nobuyuki Koga¹
¹Nakamura Gakuen University, Japan, ²Health Sciences University of Hokkaido, Japan, ³Kagawa School of Pharmaceutical Sciences, Tokushima Bunri University, Japan, ⁴Daiichi College of Pharmaceutical Sciences, Japan
- PS-01-p-114 *In vitro* metabolism of nobiletin in the small intestine and kidney of rats and guinea pigs**
Chiho Ohta¹, Yoshihisa Kato², Koichi Haraguchi³, Tesuya Endo⁴, Nobuyuki Koga¹
¹Nakamura Gakuen University, Japan, ²Tokushima Bunri University, Japan, ³Daiichi College of Pharmaceutical Sciences, Japan, ⁴Health Sciences University of Hokkaido, Japan
- PS-01-p-115 Simultaneous Ingestion of Quercetin and Apple Pectin Enhances Antioxidant Activity in Rat LDL**
Kunihisa Iwai¹, Fuduki Takami¹, Kumiko Yamashita¹, Emi Miura¹, Yoshiki Takida², Tomohiko Nishijima²
¹Aomori University of Health and Welfare, Japan, ²Glico Dairy Products Co., Ltd., Japan
- PS-01-p-116 A Study of Relationship Between the Flavonoid Absorption Enhancing Effect of Apple Pectin and the Structure of Flavonoids**
Emi Miura¹, Kumiko Yamashita¹, Toshio Norikura¹, Tomohiko Nishijima², Kunihisa Iwai¹
¹Aomori University of Health and Welfare, Japan, ²Glico Dairy Products Co., Ltd., Japan
- PS-01-p-117 Screening of rice (*Oryza sativa* L.) grains with antidiabetic functionalities**
Yasutake Tanaka¹, Kiyomi Takahashi¹, Jun-ichi Kato¹, Taiki Akasaka¹, Naoko Fujita², Yuhi Saito³, Bungo Shirouchi¹, Masao Sato¹
¹Kyushu University, Japan, ²Akita Prefectural University, Japan, ³KAMEDA SEIKA CO., LTD., Japan
- PS-01-p-118 Induction of neural differentiation by extracts of 57 plant species used in traditional Burmese medicine in PC12 cells**
Kei Yoshii¹, Nyunt Phay², Ukiya Motohiko¹, Makoto Fukatsu¹, Atsuyoshi Nishina¹
¹Nihon University, Japan, ²Patheingyi University, Myanmar
- PS-01-p-119 Antimelanogenic effects by extracts of 57 plant species used in traditional Burmese medicine in mouse B16 melanoma**
Masaharu Goto¹, Kodai Ebina¹, Nyunt Phay², Motohiko Ukiya¹, Makoto Fukatsu¹, Atsuyoshi Nishina¹
¹Nihon University, Japan, ²Patheingyi University, Myanmar
- PS-01-p-120 The Total Antioxidant Capacity and Phenolic Compounds of Different Solvent Extracts of Black Mustard Seeds (*Brassica nigra*)**
Viduranga Y Waisundara³, Yian Hoon Lee¹, Candy Suet Cheng Choo²
¹Temasek Polytechnic, Singapore, ²National University of Singapore, Singapore, ³National Institute of Fundamental Studies, Sri Lanka
- PS-01-p-121 Enhancement of Polyphenols, Antioxidant and Starch Hydrolase Inhibitory Activities of Ten Edible Plants by Kombucha (Tea Fungus) Fermentation**
Mindani I Watawana, Viduranga Y Waisundara
National Institute of Fundamental Studies, Sri Lanka
- PS-01-p-122 Total Antioxidant Capacity and Starch Hydrolase Inhibitory Activity of Ten Edible Plants in an *in vitro* Model of Digestion**
Nilakshi Jayawardena, Viduranga Y Waisundara
National Institute of Fundamental Studies, Sri Lanka
- PS-01-p-123 An Update on Contemporary Functional Foods (FFs)**
Sin-fong Lau
Humana (Melchers), Hong Kong

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- PS-01-p-124 Beneficial effects of *Camellia oleifera* seed extract on inflammation and insulin resistance in rats with metabolic syndrome**
Hsin-Yi Yang¹, Wan-Ju Yeh², Tzu-Yao Deng², Jiun-Rong Chen²
¹I-Shou University, Taiwan, ²Taipei Medical University, Taiwan
- PS-01-p-125 Enhanced Water Dispersibility of Coenzyme Q₁₀ by Complexation with Hydrophobic Peptides Obtained as Casein Hydrolysate**
Taishi Oue, Tatsuya Oshima, Asuka Inada, Yoshinari Baba
University of Miyazaki, Japan
- PS-01-p-126 The inhibitory effect of Japanese lacquers on angiotensin-converting enzyme**
Tomohiro Narita¹, Ikumi Sugiyama¹, Toru Takahashi², Yasuyuki Sadzuka¹
¹Iwate Medical University, Japan, ²Iwate Industrial Research Institute, Japan
- PS-01-p-127 Effects of fermentation on anticancer properties of *Gynostemma pentaphyllum***
I-Chuan Sheih, Chi Wen Chen
Ta Hwa University of Science and Technology, Taiwan
- PS-01-p-128 Development on the Food Materials and Research to Unused Bio-resources ~Potentiality of Cyanobacterium (Suizenjinori) and Organic Rush~**
Yuki Nakagawa, Kiyotaka Kabata
Tokai University, Japan
- PS-01-p-129 Induction of cytotoxicity against human cancer cells by extracts of 57 plant species used in traditional Burmese medicine**
Satoshi Hosono¹, Keita Nagai¹, Teppei Hayakawa¹, Morohiko Ukiya¹, Makoto Fukatsu¹, Sachiko Kishiro¹, Nyunt Phay², Atsuyoshi Nishina¹
¹Nihon University, Japan, ²Patheon University, Myanmar
- PS-01-p-130 Inaccuracy of AOAC method 2009.01 with amyloglucosidase for measuring nondigestible oligosaccharides and proposal for an improvement of the method**
Kenichi Tanabe¹, Sadako Nakamura², Tsuneyuki Oku^{1,2}
¹University of Nagasaki, Japan, ²Jumonji University, Japan
- PS-01-p-131 Enzymatically synthesized glycogen inhibits colitis through decreasing oxidative stress**
Takakazu Mitani¹, Yasukiyo Yoshioka², Takashi Furuyashiki³, Hitoshi Ashida¹
¹Kobe University, Japan, ²Ezaki Glico Co., Ltd., Japan
- PS-01-p-132 Effect of Yabumame (*Amphicarpaea bracteata* subsp. *Edgeworthii* var. *Japonica*) Extract on Low-Density Lipoprotein Oxidation *In Vitro***
Lifeng Yang¹, Jyunichi Kirikoshi¹, Shogo Sekimoto¹, Kenji Fukunaga², Ryota Hosomi², Takashi Yamagishi¹, Hirofumi Arai¹
¹Kitami Institute of Technology, Japan, ²Kansai University, Japan
- PS-01-p-133 Queen Garnet plums in a rat model of diet-induced metabolic syndrome**
Maharshi Bhaswant^{1,2}, Michael Netzel³, Kent Fenning⁴, Lindsay Brown²
¹Victoria University, Australia, ²University of Southern Queensland, Australia, ³The University of Queensland, Australia, ⁴Queensland Department of Agriculture, Fisheries and Forestry, Australia
- PS-01-p-134 Antiaging- from discovery to human clinical trials**
Chin-Kun Wang
Chung Shan Medical University, Taiwan
- PS-01-p-135 The effect of Goto camellia oil administration on skin and liver composition in mice**
Daichi Oikawa, Ayano Yoshida, Shunpei Miyazaki, Fumie Muto
Nagasaki University, Japan
- PS-01-p-136 Mechanism to suppress blood-ethanol elevation by a shiitake-mushroom extract**
Mami Hirai, So Hironaka, Makoto Akao, Hitomi Kumagai
Nihon University, Japan
- PS-01-p-137 Vespa Amino Acid Mixture improves training efficiency in middle distance runners on high school track team**
Makoto Yamaguchi¹, Zai-Si Ji^{1,2}, Xiaolin Wang², Taketo Yamaji¹, Hiroyuki Itoh¹
¹Meiji Co., Ltd., Japan, ²Shanghai Meiji Health Science and Technology Corp., Ltd, China

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- PS-01-p-138** **Suppressive effect of phenethyl isothiocyanate on gluconeogenesis in rat hepatoma cell line H4IIE cells**
Asami Suzuki¹, Yoshiaki Ito², Takashi Nagasawa²
Iwate University, Japan
- PS-01-p-139** **Collagen peptide ingestion alters the expression of genes related to lipid metabolism and unfolded protein response (UPR) in mouse liver**
Chisa Tometsuka¹, Yoh-ichi Koyama¹, Yuji Nakai², Tomoko Ishijima³, Tsudoi Toyoda³, Miki Teranishi⁴, Kazushige Takehana⁴, Keiko Abe^{3,5}
¹Research Institute of Biomatrix, Nippi Inc., Japan, ²Hirosaki University, Japan, ³The University of Tokyo, Japan, ⁴Rakuno Gakuen University, Japan, ⁵Kanagawa Academy of Science and Technology, Japan
- PS-01-p-140** **Inhibition of secretory sphingomyelinase by (-)-epicatechin-3-O-gallate**
Keiko Kobayashi, Yuki Ishizaki, Moe Miyamoto, Hiroe Kikuzaki
Nara Women's University, Japan
- PS-01-p-141** **Oral Administration of Hyaluronic Acid Alleviates Symptoms of Adjuvant Arthritis in Mice**
Xingwei Hang¹, Jie Chen¹, Yasunobu Masuda², Mamoru Kimura², Mike Usuda², Wei Wang², Yinci Xi¹
¹Shanghai Ocean University, China, ²Kewpie Corporation, Japan
- PS-01-p-142** **Soy isoflavone metabolite, S-equol, relieves endothelial dysfunction and bone loss in ovariectomised rats**
Yuko Tousen¹, Michiko Kato¹, Yoriko Nishide¹, Tomomi Ueno², Shigeto Uchiyama², Yoshiko Ishimi¹
¹National Institute of Health and Nutrition, Japan, ²Otsuka Pharmaceutical Co., Ltd., Japan
- PS-01-p-143** **Antioxidative potential of rutin on dextran sodium sulphate-induced ulcerative colitis mice model**
Agustin Martin-Morales¹, Kotomi Ikeda¹, Eri Yamaguchi¹, Kazuhiro Misumi², Yukiko Minamiyama², Junji Terao¹
¹The University of Tokushima, Japan, ²Kyoto Prefectural University, Japan
- PS-01-p-144** **Effects of dietary lycopene rich tomato powder on rat mammary carcinogenesis induced by ethyl methanesulphonate**
Mikako Takeshima, Misaki Ono, Takako Higuchi, Rei Wakimoto, Shuji Nakano
Nakamura Gakuen University, Japan
- PS-01-p-145** **Nattoesse inhibits the increase in serum lipid levels of ApoE deficient mice fed by high-fat diet**
Hideaki Suzuki¹, Koji Kobayashi¹, Yuuko Kosuge¹, Tsuyoshi Sugiyama²
¹Kitasato Junior College of Health and Hygienic Sciences, Japan, ²OTO Corporation
- PS-01-p-146** **The effects of isoflavones and resistant starch on inhibition of bone loss and increase in fat mass in ovariectomised mice**
Yu Matsumoto¹, Yuko Tosen¹, Rina Ono², Yuya Nagahata³, Isao Kobayashi³, Yoshiko Isimi¹
¹National Institute of Health and Nutrition, Japan, ²Kanto Gakuin University, Japan, ³J-OIL MILLS, INC., Japan
- PS-01-p-147** **Anti-hypertensive peptide (KBP) derived from katsuobushi**
Eiji Seki¹, Yoshifumi Fujiwara¹, Hitoshi Asada¹, Takuya Yamane², Hiroyoshi Ariga², Iwao Ohkubo³, Akihisa Yamamoto⁴, Hideo Satsu⁴
¹Yamaki Co., Ltd., Japan, ²Hokkaido University, Japan, ³Tenshi College, Japan, ⁴Maebashi Institute of Technology, Japan
- PS-01-p-148** **Dietary supplementation with Aloe vera gel powder (AVGP) prevents skin photoaging acceleration by sex hormone reduction in ovariectomized hairless mice**
Ruiqing Yao, Miyuki Tanaka, Eriko Misawa, Marie Saito, Kazumi Nabeshima, Kouji Yamauchi, Fumiaki Abe
Morinaga Milk Industry Co., Ltd., Japan
- PS-01-p-149** **Effect of sesame oil on 3T3L1 adipocytes**
Katsuhiko Minamino
Hagoromo University of International Studies, Japan
- PS-01-p-150** **Quercetin reduces apolipoprotein B expression through an inhibition of C/EBPbeta activity**
Makoto Shimizu, Juan Li, Jun Inoue, Ryuichiro Sato
The University of Tokyo, Japan
- PS-01-p-151** **The effect of capsaicin on brown adipogenesis**
Ryosuke Kida, Teruo Kawada, Tohru Matsui, Masayuki Funaba
Kyoto University, Japan

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- PS-01-p-152** **Lepidium meyenii (maca) increases the body temperature in female rats**
 Tamaki Jikyo, Fumiaki Uchiyama
Osaka Yuhigaoka Gakuen Junior College, Japan
- PS-01-p-153** **Inhibitory Effects of Moringa oleifera Extract on Tyrosinase Activity and Inhibitory Mechanism on Melanogenesis**
 Yi-Fa Lu, Chin-Hui Lin
Fu-Jen Catholic University, Taiwan
- PS-01-p-154** **Comparative study of the effect of dietary soybean phospholipids on concanavalin A-induced liver injury in mice**
 Masashi Inafuku, Naoyuki Taira, Ruwani N. Nugara, Hirotsuke Oku
University of the Ryukyus, Japan
- PS-01-p-155** **Activities of anti-inflammation and lipogenic inhibition of Antrodia salmonea mycelium and Grifola frondosa fruiting body**
 Rao-Chi Chien^{1,2}, Yi-Chi Yang¹, Jeng-Leun Mau^{1,2}
¹National Chung Hsing University (NCHU), Taiwan, ²University of California at Davis, USA
- PS-01-p-156** **In vivo study of processed soymilk containing ACE inhibitory peptides improved hypertension in spontaneously hypertensive rats**
 Md Alauddin¹, Hitoshi Shirakawa¹, Kazuyuki Hiwatashi², Atsushi Shimakage³, Saori Takahashi², Mamoru Shinbo³, Michio Komai¹
¹Tohoku University, Japan, ²Akita Research Institute of Food and Brewing, Japan, ³Yamada Food Co., Ltd., Japan
- PS-01-p-157** **Rapid determination of serotonin, tryptophan and tryptamine levels in commonly consumed foods in Japan using fluorescence HPLC**
 Jahidul Islam¹, Hitoshi Shirakawa², Tomas Kim Nguyen³, Hisahi Aso⁴, Michio Komai⁵
Tohoku University, Japan
- PS-01-p-158** **Xanthohumol improves diet-induced obesity and fatty liver by suppressing the proteolytic activation of SREBPs**
 Shingo Miyata, Jun Inoue, Makoto Shimizu, Ryuichiro Sato
The University of Tokyo, Japan
- PS-01-p-159** **Allium hookeri Inhibits Lipid Accumulation by Regulating the Expression of Adipogenic Transcription Factors During Differentiation in 3T3-L1 Cells**
 Hye-Young Choi, Gun-Hee Kim
Duksung Womens University, Korea
- PS-01-p-160** **The anthocyanin delphinidin 3-rutinoside stimulates GLP-1 secretion via calcium signaling pathway**
 Tsubasa Tani, Masaki Kato, Takanori Tsuda
Chubu University, Japan
- PS-01-p-161** **Absorption and blood kinetics of dipeptides and tripeptides after oral administration of collagen peptide**
 Fumitaka Hayasaka¹, Shoko Yamamoto¹, Kisaburo Deguchi², Yasuo Sakai¹
¹Jellice Co., Ltd., Japan, ²Medical Care Proteomics Biotechnology Co., Ltd., Japan
- PS-01-p-162** **Enhancing Effect on Radical-scavenging Activity of Japanese Edible Algae by Heat treatment**
 Akiko Takenouchi¹, Kiyoka Okai¹, Tokiko Uenaka¹, Yasuji Okai²
¹Mukogawa Women's University, Japan, ²Hagoromo University of International Studies, Japan
- PS-01-p-163** **Effect of fermented plant product on colonic luminal environment in rats fed a high fat diet**
 Yongshou Yang¹, Vivi Novita Sitanggang¹, Yukako Okazaki², Hiroyuki Tomotake³, Kentaro Arita⁴, Takayuki Ashida⁴, Norihisa Kato¹
¹Hiroshima University, Japan, ²Fuji Women's University, Japan, ³Iida Women's Junior College, Japan, ⁴Manda Fermentation Co. Ltd, Japan
- PS-01-p-164** **Seaweeds and Health and Wellbeing**
 Leonora N. Panlasigui, Marco Nemesio E. Montano
University of the Philippines, Philippines

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- PS-01-p-165 Intestinal absorption of orally administered hyaluronan and its effect on skin**
Takumi Kubota¹, Hitoshi Kurihara^{1,2}, Chinatsu Kawada^{1,2}, Hideto Yoshida¹, Mamoru Kimura¹, Tomoyuki Kanemitsu¹, Yasunobu Masuda¹, Yoshihiro Nomura²
¹Kewpie Corporation, Japan, ²Tokyo University of Agriculture and Technology, Japan
- PS-01-p-166 Diffusion coefficient as an evaluation factor of interaction and behavior of the each chiral lipoic acid-cyclodextrin inclusion complex**
Matsumi Doe, Keisuke Nishikawa, Yoshimitsu Tachi, Yoshiki Morimoto
Osaka City University, Japan
- PS-01-p-167 The collagen-derived tripeptide, glutamyl-hydroxyprolyl-glycine (Glu-Hyp-Gly) promotes differentiation of MC3T3-E1 osteoblastic cells**
Yuri Taniuchi¹, Yoshifumi Kimira¹, Aya Kataoka², Naoki Inoue², Fumihito Sugihara², Hiroshi Mano¹
¹Josai University, Japan, ²Nitta Gelatin inc, Japan
- PS-01-p-168 The combinational effects of pioglitazone and fish oil on glucose and lipid metabolism and oxidative stress in KK mice**
Yuzuru Iizuka, Hyounju Kim, Takuya Izawa, Maki Nakasatomi, Akiyo Matsumoto
Josai University, Japan
- PS-01-p-169 Quality characteristics of centrifuged broth from blanched *Pleurotus eryngii* and its application as instant drink**
Sheng-Dun Lin¹, Yu-Ting Wu¹, Jeng-Leun Mau²
¹Hungkuang University, Taiwan, ²National Chung Hsing University, Taiwan
- PS-01-p-170 Identification and quantification of water-soluble metabolites in culinary and medicinal mushrooms using proton NMR**
Yu-Chang Lo¹, Darya O. Mishchuk², Carolyn M. Slupsky², Jeng-Leun Mau¹
¹National Chung Hsing University (NCHU), Taiwan, ²University of California (UC) at Davis, USA
- PS-01-p-171 Effects of dietary black soybean on blood pressure and lipid metabolism in spontaneously hypertensive rats (SHR)**
Nozomi Tateiwa, Tamaru Shizuka, Iwanaga Hikari, Morikawa Tomomi, Kawabeta Koji, Noda Takahiro, Nagata Yasuo, Koba Kazunori
University of Nagasaki, Japan
- PS-01-p-172 Benefits of subaleurone layer of milled rice (Kinmemai) :Analysis of Kinmemai from the view point of glycemic index food**
Maya Uenobe¹, Kazue Nakata³, Hiroyuki Inagawa²
¹Nagoya Keizai University, Japan, ²Kagawa University, Japan, ³Linking Setouchi Innate Immune Network, Japan
- PS-01-p-173 Supplementation of Chitosan Alleviates High-Fat Diet-Enhanced Liver Lipogenesis in Rats via an AMP-activated Protein Kinase-activated Lipogenesis Inhibition**
Shing-Hwa Liu¹, Chen-Yuan Chiu¹, Meng-Tsan Chiang², Im-Lam Chan²
¹National Taiwan University, Taiwan, ²National Taiwan Ocean University, Taiwan
- PS-01-p-174 The Utilization of Dried Bonito Stick Processing Residue**
Lingyu Chen, Huifeng Ren, Hideaki Endo
Tokyo University of Marine Science and Technology, China
- PS-01-p-175 Effect of Initial Cooling Time on Resistant Starch Contents of Japanese Rice Ball Onigiri**
Aya Kamei, Chihiro Hoshi
Miyagi University of Education, Japan
- PS-01-p-176 Antifungal Activity of Fatty Acid Salts for Food Safety**
Aya Tanaka¹, Mariko Era¹, Shiho Sakai¹, Takayoshi Kawahara², Takahide Kanyama², Hiroshi Morita¹
¹The University of Kitakyushu, Japan, ²Shabondama Soap Co., Ltd, Japan
- PS-01-p-177 Comparison of Amylolytic Enzymes Between YAMADANISHIKI and YUMETUKUSHI in Co-culture**
Haruka Takefuji, Yukae Sato, Junko Ninomiya, Hiroshi Morita
The University of Kitakyushu, Japan
- PS-01-p-178 The High Enzyme Production by Liquid Culture with Milk**
Nanako I, Saki Mikai, Junko Ninomiya, Hiroshi Morita
The University of Kitakyushu, Japan

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- PS-01-p-179 Effectiveness of BeMo Team Battle weight loss program combined group intervention for obese adult**
Phawinpon Chotwanvirat^{1,2}, Panita Chaturawit¹, Haruethai Jaita¹, Kewalin Wattanawiroon¹, Phatt Thaitrong¹, Tanya Vannapruegs¹, Yotsapon Thewjitcharoen¹, Thep Himathongkam¹
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- PS-01-p-180 Efficacy of Green Tea Catechins on Oxidative Fat Metabolism at Rest and During Endurance in Healthy Humans**
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¹University of Mie, Japan, ²Taiyo Kagaku Co. Ltd., Japan, ³Graduate School of Medicine, University of Mie, Japan
- PS-01-p-181 Outcomes of the Intensive Weight Management Program in Thai female obesity**
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- PS-01-p-182 The effect of IL-1 beta on UCP1 expression in adipocytes**
Yuki Hanafusa¹, Teruo Kawada¹, Nobuyuki Takahashi¹, Tsuyoshi Goto¹, Hideo Matsuda², Shigeto Seno², Hiromi Daiyasu², Naknukool Supaporn¹, Tomoya Sakamoto¹, Rieko Yoshitake¹
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- PS-01-p-183 Associations of plasma cholesteryl ester palmitoleic acid with inflammatory markers and metabolic syndrome in Japanese men and women**
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¹Sendai Shirayuri Women's College, Japan, ²Nara Women's University, Japan, ³Nara Health Promotion Center, Japan, ⁴Hiroshima International University, Japan
- PS-01-p-184 Effectiveness of Lactobacillus Shirota in Body Weight Management**
Golgis Karimi, Rosita Jamaluddin
Universiti Putra Malaysia, Malaysia
- PS-01-p-185 Beneficial effects of rice endosperm protein intake in Japanese men with obesity or metabolic syndrome: a fundamental crossover clinical trial**
Michihiro Hosojima¹, Ryohei Kaseda¹, Hazuki Kondo², Mikio Fujii², Kubota Masatoshi¹, Watanabe Reiko³, Kadowaki Motoni¹, Akihiko Saito¹
¹Niigata University, Japan, ²Kameda Seika, Japan, ³University of Niigata Prefecture, Japan
- PS-01-p-186 Effect of Exercise on Body Fat among Overweight Elderly Malay Women**
Mahenderan Appukutty, Siti Nadhrah Othman, Norlizah Abdul Hamid
Universiti Teknologi MARA, Malaysia
- PS-01-p-187 Body Image Management and Dietary Behavior of University Students**
Joon Ho Lee, Wei Hu
Chungnam National University, Korea
- PS-01-p-188 Profil of peptida YY, ghrelin, hunger, satiety and ad libitum intake of obes and non Obes Indonesian women: Preliminary study**
Fiastuti Witjaksono
Universitas Indonesia, Indonesia
- PS-01-p-189 The Dietary Management after Bariatric Surgery in Taiwan**
I-chi Cheng, Shu Chen Wei, Weu Wang, Sung-Ling Yeh
Taipei Medical University Hospital, Taiwan
- PS-01-p-190 Clinical nutritional study in the infertility of Japanese thinness woman with the menstruation abnormality**
Keiko Ushigome¹, Hideki Taniguchi¹, Satomi Maruyama², Masayuki Totani³
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- PS-01-p-191 Effects of a milk preload on glycemia, insulin and incretin after a boiled rice consumption in type2 diabetes**
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- PS-01-p-192 Anti-diabetic activity of aculeatin derived from *Toddalia asiatica* (L.) Lam**
Akio Watanabe^{1,2}, Tsuyoshi Kato¹, Yusuke Ito¹, Teppei Harada¹, Junya Ito², Masahiro Ide¹, Momochika Kumagai¹, Izumi Yoshida¹, Takashi Mishima¹, Kazuhiro Fujita¹, Masatoshi Watai¹, Kiyotaka Nakagawa², Teruo Miyazawa²
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- PS-01-p-193 Can bread processing conditions alter glycaemic response?**
Evelyn Ruo Lin Lau¹, Jeyakumar Henry^{1,2}
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- PS-01-p-194 Influences of the *Glyfola gargal* extract dosage on insulin resistance induced by high-fructose diet in the rats**
Kaori Kitakoshi
Nagoya Bunri University, Japan
- PS-01-p-195 High-risk drinking is associated with a higher risk of diabetes mellitus in Korean men, based on the 2010-2012 KNHANES**
Hee-Taik Kang, Shin-Hye Kim, Tae-Ha Jung
Gangnam Severance Hospital, Yonsei University, Korea
- PS-01-p-196 Effects of Nutritional Intervention on Weight Change and Blood Sugar Control in Diabetic Patients with Obstructive Sleep Apnea Syndrome**
Chikako Hibino, Manami Oikawa, Shinichi Okabe
Okabe Clinic, Japan
- PS-01-p-197 Production and clearance of toxic aldehydes by fibroblast on collagen**
Mona Sato¹, Eun Young Park², Yasushi Nakamura², Kenji Sato¹
¹Kyoto University, Japan, ²Kyoto Prefectural University, Japan
- PS-01-p-198 Changes in dietary intakes during a simple and moderate low-carbohydrate diet in Japanese outpatients with type 2 diabetes**
Tae Sasakabe¹, Nahomi Imaeda², Hajime Haimoto³, Kenji Wakai¹
¹Nagoya University, Japan, ²Nagoya Women's University, Japan, ³Haimoto Clinic, Japan
- PS-01-p-199 Can a Low Glycaemic Index (GI) Diet Influence Blood Glucose Profiles and Energy Intake?**
Bhupinder Kaur, Jeyakumar Henry
National University of Singapore, Singapore
- PS-01-p-200 Effects of medium-chain triglycerides on gene expression related to energy and lipid metabolism in streptozotocin induced type 1 diabetic rats**
Chihiro Kuroiwa¹, Sizuka Tamaru², Kazunori Koba², Jun-ichi Nagata¹
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- PS-01-p-201 Association among serum homocysteine, adipocytokines and gestational diabetes mellitus**
Rongxian Xu^{1,2,3}, Weiqin Wang¹, Jifen Hu², Xueqin Zhang³
¹Tumor Hospital of Fujian Province, China, ²Fujian Medical University, China, ³Xiamen Maternal and Children Hospital, China
- PS-01-p-202 Effect of aerobic exercise on body composition, HOMA-IR, and lipid profile in healthy non-diabetic with elevated risk of diabetes subjects**
Ardy Brian Lizuardi, Kamalita Pertiwi, Astri Kurniati, Susana Xie
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- PS-01-p-203 Effect of continuous support for older adults with diabetes**
Tetsuko Tejima¹, Hiroko Kito¹, Ritsuko Tanaka¹, Megumi Sakamoto¹, Risako Sato², Miyuki Kozuka³, Rumiko Sugimura¹, Chisa Yamashita¹, Akina Chiba¹, Kumiko Nishio¹
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- PS-01-p-204 Usefulness of carotid imaging rather than traditional atherogenic lipoprotein markers in prediabetics**
Yoko Watanabe, Masami Tukada, Kiyomi Ishiguro, Chikako Kasuga, Keiko Kamachi, Akira Tanaka, Yasuo Kagawa
Kagawa Nutrition University Nutrition Clinic, Japan
- PS-01-p-205 Maternal dietary EFA ratio before and after pregnancy affected the development of T1D in the offspring of NOD mice**
Yukiko Kagohashi, Hiroki Otani
Shimane University, Japan

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- PS-01-p-206 Evaluating the Accuracy of Food Consumption Input by Diabetes Patients into DialBetics with FoodLog, a Multimedia Food Recording Tool**
Shigeko Kato¹, Kayo Waki^{1,2}, Hanae Lee¹, Kiyoharu Aizawa¹, Makoto Ogawa³, Haruka Kobayashi⁴, Takashi Kadowaki², Hideko Fujita¹, Kazuhiko Ohe¹
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- PS-01-p-207 Food photograph in dietary assessment among dietitians**
Wen-Chin Yeh¹, Chia-Hsuan Lin¹, Shu-Yen Feng¹, Mon-Chiou Lin¹, Yi-Wen Chen¹, Ming-Yin Cheng¹, Yin-Ting Chin¹, Yu-Hung Chang¹, Chung-Mei Ouyang², Yau-Jiunn Lee¹
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- PS-01-p-208 Relationship between Plasma Glucose and HbA1c in Thai population**
Suwimol Sapwarabol¹, Somnuek Gulsatitporn¹, Sirinate Krittiyawong², Thep Himathongkam²
¹Chulalongkorn University, Thailand, ²Theptarin Hospital, Thailand
- PS-01-p-209 Chronic chlorella intake improves metabolic syndrome risks in obese type 2 diabetic rats**
Horie Naoki¹, Sato Koji¹, Hasegawa Natsuki¹, Fujie Shumpei¹, Mizoguchi Toru², Onishi Masato², Iemitsu Motoyuki¹
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- PS-01-p-210 Usefulness of a new nutritional counseling network system for Japanese type 2 diabetic patients with obesity**
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- PS-01-p-211 Relationship Profiling between Fatty Acids and Metabolic Syndrome Components among Taiwanese Adults**
Kuo-Liong Chien, Yu-Kang Tu, Hung-Ju Lin, Hsiung-Ching Hsu, Ta-Chen Su, Ming-Fong Chen
National Taiwan University, Taiwan
- PS-01-p-212 Glycemic Index and Glycemic Load of New Breeding Lines of Thai Rice Varieties**
Jureeporn Nounmusig, Prapaisri P Sirichakwal, Uruwan Yamborisut, Ratchanee Kongkachuichai, Rin Charoensiri, Aurawan Kringkasemsri
Mahidol University, Thailand
- PS-01-p-213 Proteoglycan-supplementation in drinking water suppressed elevation of the blood glucose level in high-fat-diet induced obese mice**
Shouhei Hirose, Krisana Asano, Akio Nakane
Hirosaki University Graduate School of Medicine, Japan
- PS-01-p-214 Lipid accumulation product, lipid peroxidation and oxidative stress in type 2 diabetic patients**
Harshi Prasadini Gunawardena¹, Renuka R Silva¹, Ramaiah Sivaknesan², Prasad Katulanda³
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- PS-01-p-215 Major depressive disorder and initial insulin hyposecretion in oral glucose tolerance test**
Emiko Aizawa¹, Sumiko Yoshida², Shokichi Tajima², Kotaro Hattori¹, Kazuhiko Segawa², Hiroshi Kunugi¹
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- PS-01-p-216 Effect of vinegar ingestion before meal on glycemic indices in well controlled type 2 diabetic patients**
Azadeh Nadjarzadeh, Reyhaneh Bashiri, Akram Ghadiri, Fahimeh Mazidi Sharif Abad, Hossein Fallahzadeh
Shahid Sadoughi University of Medical Sciences, Iran
- PS-01-p-217 Development and clinical trials of food that suppress increment of the postprandial blood glucose by addition of functional foodstuff**
Aya Ishigami, Maki Nakahigashi, Nodoka Nago, Nobuyuki Tanahashi, Yoichi Nagamura
Suzuka University of Medical Science, Japan
- PS-01-p-218 Patterns of consuming beliefs and the use of dietary supplements for patients with diabetes**
Shu-Li Huang
National Taiwan University Hospital, Taiwan

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PM Nutritional Epidemiology 2

- PS-01-p-219 Dietary supplement use and nutritional status of Korean children**
Minji Kang¹, Jae Eun Shim², Hee Young Paik¹
¹Seoul National University, Korea, ²Daejeon University, Korea
- PS-01-p-220 Mid arm circumference is an useful measurement to assess nutritional status for premature infants**
Shih-Chien Huang¹, Ming-Sheng Lee², Hung-Lin Chen², Jou-Huai Lin¹, Chin-Lin Hsu¹
¹Chung Shan Medical University, Taiwan, ²Changhua Christian Hospital, Taiwan
- PS-01-p-221 The result of the health examination in junior high school students in south India**
Mari Mori¹, S Saravanan², K Kokila², A Anbumalar², Hideki Mori¹, Arun Kumar Garg³, Shigehiro Tanaka³, S Sethupathy², N Chidambaram², Arun Chockalingam⁴, Yukio Yamori¹
¹Mukogawa Women's University, Japan, ²Annamalai University, India, ³Fraser Health Authority, Canada, ⁴University of Toronto, Canada
- PS-01-p-222 Dietary Diversity is Associated with Increased Micronutrients Intake of Rural Pregnant Women of Bangladesh**
Syed Mahfuz Al Hasan, Sonjoy Saha, Md. Masum Billah, Md. Mahedi Hassan, Audity Biswas Mou, Md. Mominul Islam
Jessore University of Science and Technology, Bangladesh
- PS-01-p-223 An attempt to promote myogenesis in the pig by adding taurine to maternal diet during pregnancy and lactation**
Masaya Katsumata¹, Hiroko Toyoda²
¹Azabu University, Japan, ²NARO Institute of Livestock and Grassland Science, Japan
- PS-01-p-224 Daily Intake Of Milk And Dairy Product Contributes To Better Nutritional Status Indices Among Indonesian Preschool Children**
Paulus Daniel Sahanggamu, Drupadi HS Dillon, Endang W Bachtiar
Universitas Indonesia, Indonesia
- PS-01-p-225 Association between carbohydrate intake and abnormal glucose tolerance in Japanese pregnant women**
Ryoko Tajima¹, Yoko Yachi², Yui Anasako¹, Yasuhiro Tanaka³, Kaoruko T Iida¹, Hirohito Sone⁴
¹Ochanomizu University, Japan, ²Yamanashi Gakuin University, Japan, ³Tanaka Women's Clinic, Japan, ⁴Niigata University Faculty of Medicine, Japan
- PS-01-p-226 Effects of the National School Lunch Program on the Bone Mass of Elementary School Children in Japan**
Toshiyuki Kohri, Naoko Kaba, Kentaro Yoshikawa, Eriko Matsuoka
Kinki University, Japan
- PS-01-p-227 A child feeding index is superior to WHO IYCF indicators in explaining length-for-age Z-scores of young children in rural Cambodia**
Anika Reinbott¹, Judith Kuchenbecker¹, Johannes Herrmann¹, Irmgard Jordan¹, Ellen Muehlhoff², Ou Kevanna³, Michael Krawinkel¹
¹Justus Liebig University, Germany, ²The Food and Agricultural Organization of the United Nations, Italy, ³National Maternal and Child Health Center, Cambodia
- PS-01-p-228 Polyunsaturated fatty acids profile of maternal erythrocytes and its determinants in Japanese pregnant women from an adjunct JECS cohort**
Kunihiko Nakai¹, Shoji Saitoh^{1,2}, Terue Kawabata³, Fumiko Kimura¹, Nozomi Tatsuta¹, Kiyotaka Nakagawa¹, Teruo Miyazawa¹, Takahiro Arima¹, Yasuo Kagawa³, Satoshi Mizuno¹, Hidekazu Nishigori¹, Nobuo Yaegashi¹
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- PS-01-p-229 A pilot cross-sectional study examining nutrient intakes of Chinese pregnant women in Hong Kong**
Ruth Chan, Sin Li, Terence Lao, Mandy Sea, Jean Woo
The Chinese University of Hong Kong, Hong Kong
- PS-01-p-230 Aggression and its associations with nutritional intake, life-styles and autonomic nervous system activity in school children**
Maki Suzuki¹, Keiko Otake², Ikuyo Hayashi¹, Toshio Moritani³, Narumi Nagai¹
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- PS-01-p-231 TV viewing is associated with obesity in Thai children aged 7 to 12 years**
Wiyada Thasanasuwan¹, Kallaya Kijboonchoo¹, Weerachat Srichan¹, Uruwan Yamborisut¹, Wanphen Wimonpeerapattana¹, Nipa Rojroongwasinkul¹, Paul Deurenberg², Ilse Khouw³
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- PS-01-p-232 The impact of Maternal Cognitive on Screen Time (ST) behaviors of preschool children**
Zhi Run Zhu¹, Long Xiang Xu¹, Xue Rui Bai¹, Wenxi Xie¹, Manoj Sharma², Yong Zhao¹
¹Chongqing Medical University, China, ²University of Cincinnati, USA
- PS-01-p-233 Feeding Practice during Transitional Period (6-8 Months) and Complementary Feeding Programs in Jonggat Sub-district, Central Lombok, West Nusa Tenggara, Indonesia**
Karina R. Ekawidyan^{1,2}, Lindawati Wibowo², Lina Rospita², Luh Ade A. Wiradnyani², Manjilala Manjilala^{2,3}, Sitha D. Putriani², Ragil Marini^{2,4}
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- PS-01-p-234 Micronutrient Status of Indonesian Children 0.5-12 Year of Age by Socioeconomic Status: Result of Seanuts 2011**
Fitrah Ernawati¹, Sandjaja Sandjaja¹, Ilse Tan Khouw²
¹MOH Indonesia, and SEANUTS Indonesian Team / Persatuan Ahli Gizi Indonesia, Indonesia, ²Friesland Campina, the Netherlands
- PS-01-p-235 Usual Daily Milk Intake of Indonesian Children Using Multiple Source Method and Its Association with Double Burden Malnutrition**
Eny Palupi^{1,2}, Angelika Ploeger¹, Ahmad Sulaeman²
¹University of Kassel, Germany, ²Bogor Agricultural University, Indonesia
- PS-01-p-236 Alterations In Body Composition And Metabolic Profile Among Malay Children And Adolescents In Kuala Lumpur**
Yeow Nyin Ang¹, Masaharu Kagawa², Mahadir Ahmad¹, Bee Koon Poh¹
¹Universiti Kebangsaan Malaysia, Malaysia, ²Kagawa Nutrition University, Japan
- PS-01-p-237 Adolescent Holds the Key to Saving Future Generation of Indonesia**
Avita A Usfar¹, Akhir Riyanti²
¹TNP2K, Indonesia, ²Universitas Indonesia, Indonesia
- PS-01-p-238 Effectiveness of fortified milk on growth in young children: A systematic review and meta-analysis**
Misa Matsuyama^{1,2,3}, Peter S. W. Davies^{1,2,3}, Tracy Harb^{1,2,3}, Michael David^{1,2,4}, Rebecca J. Hill^{1,2,3}
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- PS-01-p-239 Association Between Birth Weight, Physical Status and Physical Fitness in University Students**
Ryo Abe¹, Wataru Aoi¹, Masayo Iwasa¹, Ayako Saruwatari¹, Kiyomi Harada², Sayori Wada¹, Akane Higashi¹
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- PS-01-p-240 Maternal leanness at the beginning of pregnancy affect the physique of infants (Longitudinal study)**
Ayako Saruwatari¹, Yurika Tanaka¹, Kiyomi Harada^{1,2}, Masayo Iwasa¹, Kiyoko Odani¹, Kayo Furutani¹, Yukari Nishi⁴, Sayuri Fukuda³, Akane Higashi¹
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- PS-01-p-241 Eicosapentaenoic acid may improve the impaired signaling pathway of the cardiac muscle of infants**
Ritsuko Kawaharada¹, Sayo Ichikawa¹, Chisaki Kofude¹, Miki Yajima¹, Misa Muramoto¹, Akio Nakamura²
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- PS-01-p-242 Risk Factors Associated with Mental Development**
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PS-01-p-243 Influence of Dietary Intake on Cognitive Performance of Malaysian Children aged 6 months to 3 years: A Cross-sectional Study

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PS-01-p-244 Micronutrient Sprinkles Intervention Improved Growth of Indian Children Aged 6-18 Months

Jyoti Vijay, Sheel Sharma

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PS-01-p-245 LC PUFA Consumption among Pregnant Women in Central Bogor, West Java, Indonesia

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PS-01-p-246 Infant Feeding Practices - An Asian Perspective

Mary F-F. Chong^{1,5}, Jia Ying Toh^{1,5}, Grace E.H. Yip², Wee Meng Han³, Doris N.L. Loh⁴, Yen Ling Low⁵, Yung Seng Lee^{1,5}, Salome A. Rebello⁵, Seang Mei Saw⁵, Kenneth Kwek³, Keith M. Godfrey⁶, Peter D. Gluckman^{1,7}, Yap Seng Chong^{1,5}

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PS-01-p-247 A study on the physical properties of baby food

Emiko Otsuka, Sonoko Ayabe

Takasaki University Health and Welfare, Japan

PS-01-p-248 Maternal Social Capital and Nutritional Status of Children 6 to 24 Months Old in an Urban and Rural Area

Divine Grace Cas Domingo

University of the Philippines Los Banos, Philippines

PM Nutrition Education/Community Nutrition 2

PS-01-p-249 Development of a Vietnamese University Curriculum Framework in Public Health Nutrition

Quynh T. H. Pham, Anthony Worsley, Mark Lawrence, Bernie Marshall, Sonia Brockington

Deakin University, Australia

PS-01-p-250 Knowledge and Perception on the Importance of Food Label were Associated to Food Label Use among University Students in Surabaya

Dini Ririn Andrias, Annis Catur Adi

Universitas Airlangga, Indonesia

PS-01-p-251 A Study on Health-related Lifestyle and Sweet Food Intake by Stress Levels in College Students in Seoul

Jun-Gyeong Kim, Seo-Rin Doo, Ga-Ram Kim, Seul Lee, Bo-Mi Kang, Hea-Ryun Park, Young-Mi Lee, Kyung-Hee Song

Myongji University, Korea

PS-01-p-252 Effects of intervention based on The 3-1-2 Meal Box Magic for young female who had IGT

Namiko Adachi, Takayoshi Tsukahara

Nagoya University of Arts and Sciences, Japan

PS-01-p-253 The consciousness of the younger generation of the rice consumption and the improvement of dietary habits

Taeko Shigenobu-Kishimoto

Okayama Prefectural University, Japan

PS-01-p-254 Consciousness of Salt Intake and Dietary Behavior in College Students in Japan

Jangmi Kang, Takuma Tanaka, Haruka Matsumoto

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- PS-01-p-255 Can response execution/inhibition training change amounts of food intake at buffet style lunches?**
Kimiko Kazami^{1,2}, Masami Hara², Hiromi Shiraishi¹, Seigo Shiga², Kentaro Yamanaka²
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- PS-01-p-256 Examination of Factors Influencing the Dietary Behaviors of Female University Students Using "Theory of Planned Behavior"**
Ikue Hamaguchi¹, Toyoko Okuda², Hayato Uchida³, Masayuki Hamaguchi⁴, Yuko Higashine⁵
¹Konan Women's University, Japan, ²Tezukayamagakuin University, Japan, ³University of Hyogo, Japan, ⁴Osaka Prefecture University, Japan, ⁵Osaka Aoyama University, Japan
- PS-01-p-257 A Study on Quality of Life (QOL) of University Students**
Shoko Sasaki¹, Yumi Tsuchiya², Sumiko Kurata¹
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- PS-01-p-258 Effectiveness of a practical dietary lifestyle education (PDLE) program for young female, Japan**
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- PS-01-p-259 Effects of dietary intervention on improvement of defecation in healthy female adults**
Tomomi Ichikawa¹, Tsubasa Matsumoto¹, Ayako Asahi²
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- PS-01-p-260 The changes of dietary fiber intakes in young people after supplementation resistant starch at their breakfast**
Masako Tsuji¹, Yuko Sato³, Yuya Nagahata², Isao Kobayashi², Masaru Goto², Naotaka Hashizume³, Tamotsu Kuwata³
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- PS-01-p-261 Patterns of coping with the aftermath of dietary lapses in weight control**
Misa Shimpo, Rie Akamatsu
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- PS-01-p-262 Estimated urinary salt excretion by a self-monitoring device is applicable to education of salt restriction**
Kenichiro Yasutake¹, Noriko Horita², Tomomi Kajiyama¹, Munechika Enjoji³, Takuya Tsuchihashi⁴
¹Nakamura Gakuen University, Japan, ²Nishikyushu University, Japan, ³Fukuoka University, Japan, ⁴Steel Memorial Yawata Hospital, Japan
- PS-01-p-263 Thai community health care workers improvements in diabetes knowledge were not sufficient to change risk factors in community members**
Kitti Sranacharoenpong
Mahidol University, Thailand
- PS-01-p-264 Intake of a Japanese-style healthy lunch contributes to normalization of serum adipocytokine**
Hiroko Inoue, Ryosuke Sasaki, Toshiko Kuwano
University of Shizuoka, Japan
- PS-01-p-265 Comparison of Current Vegetable Intake and Recollections of Childhood Dietary Habits among Young Single Males**
Misato Tanaka, Yukari Takemi
Kagawa Nutrition University, Japan
- PS-01-p-266 The Effect of Nutrition Counseling Program on Children with Congenital Heart Disease**
Chutikan Sakphisutthikul, Waraporn Chur-Inn
KhonKaen University, Thailand
- PS-01-p-267 Developing an interactive nutrition diabetes education model for nutritional behavior change in type 2 diabetes patients**
Ting-Wen Chia
Chung Shang Medical University Hospital, Taiwan
- PS-01-p-268 Using Diabetes Conversation Map in Practice: a Regional Hospital Experience in Taiwan**
Hsiao-Chun Lin, Chung-Mei Ouyang, Mei-Ling Hung, Yuh-Lin Liu, Ching Lu
National Taiwan University Hospital, Taiwan

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- PS-01-p-269 Establishment of A National Web-Based Education and Counseling Program for Expanding Access to Promote Behaviour Change in Diabetics**
Emyr R. Isaura
Taipei Medical University, Taiwan
- PS-01-p-270 Nutrition Education Program to Improve Care Providers Nutrition Management for Disability Population in Rehabilitation Centres in Malaysia**
Seong Ting Chen, Kah Leng Soo, Azriani Ab Rahman, Hans Van Rostenberghe, Sakinah Harith
Universiti Sains Malaysia, Malaysia
- PS-01-p-271 Misleading advertisements of "Food for Specified Health Uses" in Japan**
Kuniko Takahashi
Gunma University, Japan
- PS-01-p-272 Development of a web application with Flash for nutrition education**
Yumie Tomita¹, Yuka Masshardt², Reiko Hirasawa², Toshikatsu Hosoi², Jun Oka¹, Kouichi Hirota²
¹Tokyo Kasei University, Japan, ²National Institute of Health and Nutrition, Japan
- PS-01-p-273 The Evaluation of Internet-Based Lectures to Improve Behavior of Eating and Exercise in Freshmen**
Ying-Yueh Chu, Su-Yi Lin, Yi-Jhen Lin, Hsien-Yu Fan
Chinese Culture University, Taiwan
- PS-01-p-274 Relationship between users acquiring appropriate information about dietary advice on diabetes and websites' adherence to structural criteria**
Reiko Hirasawa¹, Sakiko Yoshizawa¹, Chika Horikawa^{1,2}, Yoko Ibe², Yoriko Heianza¹, Ayumi Hirose¹, Yoko Yachi^{1,3}, Kazuo Kondo⁴, Kaoruko Iida⁴, Hirohito Sone¹
¹Niigata University, Japan, ²University of Tsukuba Institute of Clinical Medicine, Japan, ³Yamanashi Gakuin University, Japan, ⁴Ochanomizu University, Japan
- PS-01-p-275 Characteristics of User of Indonesian Social Media Having Nutrition Education Programs**
Septian Suhandono, Hardinsyah Hardinsyah
Food and Nutrition Society of Indonesia (PERGIZI PANGAN Indonesia), Indonesia
- PS-01-p-276 The Impact of School-based Sport Nutrition Education Intervention on Nutrition Knowledge and Dietary Intake Variables Relating to Nutrition for Athletes**
Setyo U Wisnusanti, Intan R Rahmawati, Ni'mah Hanifah, Chairina Vidya
Universitas Gadjah Mada, Indonesia
- PS-01-p-277 The influence of nutrition education intervention on energy nutrient intakes, body composition, and attention performance in Taiwanese young baseball players**
Fu-Chun Tang, Sieh-Hwa Lin, Ting-Wei Wu, Yu-Ping Lu, Yi-Hsin Chen, Chi-Shiuan Wu, Shin-Han Peng, Fang-Ying Pan, Pin-Lun Lin, Yi-Zhen Chen
National Taiwan Normal University, Taiwan
- PS-01-p-278 Examination of Effect of Practical Nutrition Education on University Male Long-distance Runners**
Kinuyo Kanbe
Nihon University Junior College, Japan
- PS-01-p-279 Transtheoretical Model is effective for nutrition education in young healthy athletes**
Kanako Katai, Kitagawa Misaki, Kangawa Ayumi
Doshisha Women's college of Liberal Arts, Japan

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- PS-01-p-280 Assessing the Impact of Food Regulations in Singapore: A Content Analysis of F&B Advertising Landscape**
Reidinar Juliane Wardoyo, May Lwin, Wonsun Shin, Hattie Liew, Yeo Su Lin
Nanyang Technological University, Singapore
- PS-01-p-281 Increasing the Cadres's Welfare**
Eskaning Arum Pawestri
University of Indonesia, Indonesia
- PS-01-p-282 To Evaluate the Adherence of Enteral Formulas to DRIs in Taiwan**
Barbara Ying Jung Chen¹, Steve Ma², Frances Chang Ma²
¹Nutritec Enjoy Corporation, Taiwan, ²Nutritec Enjoy Nutrition Center, Taiwan
- PS-01-p-283 Nutritional and behavioral determinants of childhood obesity: a case-control study in Sri Lanka**
Senarath Mahamithawa¹, Kumari M. Rathnayake², R. Gajatheepan², VP Wickramasighe³
¹Ministry of Health, Public Health Complex, Sri Lanka, ²Wayamba University of Sri Lanka, Sri Lanka, ³University of Colombo, Sri Lanka
- PS-01-p-284 Stunting in India: Its association with the triad of feeding, care and environmental health**
Ashi Kohli Kathuria, John Lincoln Newman, Mohini Kak
World Bank, India
- PS-01-p-285 Food security of migrants in a regional area of Australia A qualitative study**
Joanne Sin Wei Yeoh¹, Quynh Le², Rosa Mcmanamey³
University of Tasmania, Australia
- PS-01-p-286 The role of dairy in helping Vietnamese children to meet their daily nutrient requirements: the South East Asian Nutrition Survey**
Khanh Bao Le Nguyen¹, Burgers Minke¹, Tuyen Danh Le¹, Chinh Huu Nguyen¹, Truong Hong Nguyen¹, Deurenberg Paul², Khouw Tan Ilse³
¹National Institute of Nutrition (NIN), Viet Nam, ²Nutritional Consultant, ³FC Company,
- PS-01-p-287 Study on Application of Fatty Acids and Its Alkali Salts for the Biocontrol of *Acanthamoeba***
Manami Masuda¹, Mariko Era¹, Takayoshi Kawahara², Takahide Kanyama², Hiroshi Morita¹
¹The University of Kitakyusyu, Japan, ²Shabondama Soap Co., Ltd., Japan
- PS-01-p-288 Application to the toxic inspection to the food additive of *Allivibrio fischeri***
Chinatsu Nagahama¹, Hitomi Kuwahara¹, Junko Ninomiya¹, Hiroshi Morita²
The University of Kitakyushu, Japan
- PS-01-p-289 The Effects of Fatty Acid Salts Against *Cladosporium Cladosporioides* and *Dermatophagoides Farinae***
Yui Okuno¹, Mariko Era¹, Takayoshi Kawahara², Takahide Kanyama², Hiroshi Morita¹
¹The University of Kitakyushu, Japan, ²Shabondama Soap Co., Ltd., Japan
- PS-01-p-290 Acceptance and Nutritional Potency of Wild Food Plants for Improvement of Community Diet in Food Insecure Area**
Annis Catur Adi, Dini Ririn Andrias
Universitas Airlangga, Indonesia
- PS-01-p-291 High prevalence of malnutrition among adult women and children in food insecure rural households**
Thamilini Joshepkumar, Renuka Silva, Udith Jayasinghe
Wayamba University of Sri Lanka, Sri Lanka
- PS-01-p-292 Factors and Consequences of Food Insecurity among Welfare Recipients in Bangi And Kajang, Selangor Malaysia**
Norhasmah Sulaiman
Universiti Putra Malaysia, Malaysia
- PS-01-p-293 Correlation of Socio Economic Status (SES) with Perceived Food Accessibility based on HFIAS in Three Different Areas of Indonesia**
Nia Novita Wirawan¹, Hasan La Kabolosi², Ratna Chrismiari Purwestri³, Gemala Qurbani¹, Devilia Mega¹
¹University of Brawijaya, Indonesia, ²Health Polytechnic of Kendari, Indonesia, ³University of Hohenheim, Germany

Program

- PS-01-p-294 Effect of Chitosan Silkworm Pupae Skin Substitution of Formalin toward Storability of Tofu**
 Taufiq Firdaus Alghifari Atmadja¹, Clara M Kusharto², Pipih Suptijah³
¹Taufiq Firdaus Alghifari Atmadja University, Indonesia, ²Clara M. Kusharto University, Indonesia, ³Pipih Suptijah University, Indonesia
- PS-01-p-295 Molecular mechanistic study of virulence factors related to biofilm formation of Enterococcus faecalis**
 Yen-Jou Hsu, Su-Hua Huang
 Asia University, Taiwan

May 16 (Saturday)

Poster Session 02

AM Nutritional Biochemistry 3

- PS-02-a-001 The effect of different sources of n-3 fatty acids on lipid metabolism and body fat in 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