

3rd International Conference on Biologically Active Substances

Bioactive Okayama 2018

Okayama, October 16, 2018

Okayama International Center
2-2-1 Hoka-cho, Kita-ku, Okayama, Japan

Co-organized by Okayama Bioactive Research Society and
Okayama Prefectural University

PROGRAM

October 16 (Tue), 2018. (Okayama International Center)

- 9:00-9:30 Registration (2F International Conference Hall)**
- 9:30-9:40 Opening of the Conference (2F International Conference Hall)**
- 9:40-10:40 Session I (2F International Conference Hall)**
“Food and Nutrition Research in East Asia and the Surrounds (1)”
Chairs: Ding Zhi Fang (Sichuan Univ.)
 Yoshitaka Takahashi (Okayama Pref. Univ.)
- 9:40-10:00 O-1 Hongbing Chen (Nanchang Univ.)
Effects of C18 unsaturated fatty acids on the structure and allergenicity
of bovine α -lactalbumin
- 10:00-10:20 O-2 Jetty Chung-Yung Lee (Univ. Hong Kong)
Neuroprostanes derived from non-enzymatic DHA peroxidation
displays neuroprotective properties in the rodent brain
- 10:20-10:40 O-3 Jia Lin (Sichuan Univ.)
Effects of high-carbohydrate and low-fat diets on serum lipid profiles in
healthy young subjects with different genetic variations
- 10:40-10:55 Coffee Break (7F Multipurpose Hall)**
- 10:55-11:55 Session II (2F International Conference Hall)**
“Food and Nutrition Research in East Asia and the Surrounds (2)”
Chairs: Hongbing Chen (Nanchang Univ.)
 Yasuyuki Irie (Okayama Pref. Univ.)
- 10:55-11:15 O-4 Gyu-Hee Lee (Woosong Univ.)
Physicochemical and sensory characteristics of pan bread made with
various squeezed perilla leaf juice amount during storage
- 11:15-11:35 O-5 Chi Bun Chan (Univ. Hong Kong)
Regulation of muscle physiology by 7,8-dihydroxyflavone
- 11:35-11:55 O-6 Yuki Kawakami (Okayama Pref. Univ.)
Mutations of anti-leukotriene C₄ single-chain antibody change the
antigen binding specificity

11:55-13:15	Luncheon Seminar (Only for the members of “12th Joint Conference on Nutrition” and BAO2018 committee)
13:15-14:15	Session III (2F International Conference Hall) “Food and Technology (1)” Chairs: Ryoji Mitsui (Okayama Univ. Sci.) Koichi Tanaka (Okayama Pref. Univ.)
13:15-13:35	O-7 Takanori Yano (Okayama Univ. Sci.) Isolation of wild yeasts from local region and their application to winemaking
13:35-13:55	O-8 Kensuke Arakawa (Okayama Univ.) Sweetened egg white can be fermented with <i>Lactobacillus casei</i> -group lactic acid bacteria
13:55-14:15	O-9 Izumi Tsukayama (Okayama Pref. Univ.) Anti-cancer effect of <i>Dioscorea japonica</i> and the constituent diosgenin through down-regulation of prostaglandin E ₂ synthetic pathway
14:20-15:20	Oral Presentation of Young Investigators (2F International Conference Hall) Chairs: Yoshimasa Nakamura (Okayama Univ.) Yuki Kawakami (Okayama Pref. Univ.)
14:20-14:22	P-1 Jun Chen (Nanchang Univ.) Production of whole-bean soymilk by pilot-scale microfluidization
14:22-14:24	P-2 Rikako Inoue (Okayama Pref. Univ.) Effect of malted-rice amazake on intestinal environment
14:24-14:26	P-3 Yuji Iwaoka (Okayama Pref. Univ.) Affinity resins as tools for identifying target proteins of ascorbic acid
14:26-14:28	P-4 Keita Kanzaki (Kawasaki Univ. Med. Welf.) Ingestion of soy protein isolate attenuates eccentric contraction-induced force depression and muscle proteolysis via inhibition of calpain-1 activation in rat fast-twitch skeletal muscle
14:28-14:30	P-5 Ken-Ichi Kobayashi (Notre Dame Seishin Univ.) Dynamic visualization of anti-colorectal cancer effect of resveratrol using fluorescence labeling strategies

- 14:30-14:32 P-6 Jing Li (Nanchang Univ.)
The effect and mechanism of elaidic acid and trans vaccenic acid on HUVECS function based on phospholipids profile
- 14:32-14:34 P-7 Hitomi Maruta (Okayama Pref. Univ.)
Effect of *Bifidobacterium* fermented milk on anti-obesity
- 14:34-14:36 P-8 Junko Masuda (Okayama Univ.)
Cytokine expression and macrophage localization in xenograft and allograft tumor models stimulated with lipopolysaccharide
- 14:36-14:38 P-9 Toshiyuki Nakamura (Okayama Univ.)
Comparison of bioavailability of quercetin monoglucoside and its aglycone
- 14:38-14:40 P-10 Michiko Nemoto (Okayama Univ.)
Identification of proteins involved in tooth biomineralization in the giant Pacific chiton by integrated transcriptomic and proteomic analysis
- 14:40-14:42 P-11 Guang Yue Ren (Henan Univ. Sci. Technol.)
The effect of glass transition temperature on the procedure of microwave–freeze drying of Mushrooms (*Agaricus bisporus*)
- 14:42-14:44 P-12 Shota Tokai (RIBS)
Comparison of *Streptomyces* transglutaminases on substrate specificities toward casein peptides
- 14:44-14:46 P-13 Yuki Yamamoto (Okayama Univ.)
Ion channels involved in the generation mechanism of phasic spontaneous contraction of bovine oviducts
- 14:46-14:48 P-14 Qiang Yu (Nanchang Univ.)
Immunomodulatory activity of *Ganoderma atrum* polysaccharide on purified T lymphocytes through Ca^{2+} /CaN and MAPK pathway based on RNA-seq
- 14:48-14:50 PY-1 Februadi Bastian (Okayama Pref. Univ.)
New polyphenols from *Punica granatum* and their anti-glycation activities
- 14:50-14:52 PY-2 Yoshiko Fujitani (Okayama Univ.)
Functional analysis of lanthanide inducible proteins of *Methylobacterium aquaticum* 22A
- 14:52-14:54 PY-3 Yuuki Haruna (Okayama Univ.)
Molecular mechanism of methylotaxis in *Methylobacterium aquaticum* strain 22A

- 14:54-14:56 PY-4 Masahiro Ide (Okayama Univ.)
Effects of orizabin from *Tithonia diversifolia* on vascular protection and suppression of foam cell formation in human umbilical vein endothelial cells and human monocytic THP-1 cells
- 14:56-14:58 PY-5 Mana Koide (Okayama Univ.)
Isolation of *p*-nitrophenyl *N*-acetyl- β -D-glucosaminide assimilating bacteria and their β -*N*-acetylglucosaminidase sensitivity to *p*-nitrophenyl *N*, *N*, *N*-trimethyl β -D-glucosaminium iodide
- 14:58-15:00 PY-6 Natsuko Komoto (Notre Dame Seishin Univ.)
Quinolinic acid phosphoribosyltransferase (QPRT) knockout mouse as a novel noninvasive chronic kidney disease (CKD) animal model and a possible animal model for the search of bioactive compounds with preventive effect in CKD
- 15:00-15:02 PY-7 Yun Ma (Okayama Pref. Univ.)
Study on mechanism of taurine function on skeletal muscle of aged rats
- 15:02-15:04 PY-8 Kana Matsukawa (Okayama Univ.)
Identification of enzymes derived from *Saccharomyces cerevisiae* catalyzing the reaction of olive leaf secondary metabolite, 3,4-dihydroxyphenylethanol-elenolic acid to reduced 3,4-dihydroxyphenylethanol-elenolic acid
- 15:04-15:06 PY-9 Asaduzzaman Md (Okayama Univ.)
Purification of several subunits from a peanut allergen, Ara h1
- 15:06-15:08 PY-10 Kiyoshi Miura (Kawasaki Univ. Med. Welf.)
Absorption and metabolism of short-chain fatty acids in rats during the night
- 15:08-15:10 PY-11 Yuki Nagasaki (Okayama Pref. Univ.)
Lipocalin-type prostaglandin D synthase as a potential biomarker of bovine mastitis
- 15:10-15:12 PY-12 Xian Wen Tan (Okayama Univ.)
Rice bran extracts (RBE) as natural ameliorative bioactive materials for oxidative stress and inflammation
- 15:12-15:14 PY-13 Keisuke Toda (Okayama Pref. Univ.)
Preventive effect of red rice proanthocyanidin on psoriasis via inhibition of arachidonate 5-lipoxygenase
- 15:14-15:16 PY-14 Chengduo Wang (Okayama Pref. Univ.)
Beneficial effect of functional foods on fatty liver

15:16-15:18	PY-15 Ai Yamada (Okayama Univ.) Temperature sensing TRP channels are involved in increase of prostaglandin production of bovine endometrial stromal cells under heat stress
15:18-15:20	PY-16 Patcha Yanpirat (Okayama Univ.) Formaldehyde oxidation in lanthanide-dependent methylotrophy in <i>Methylobacterium aquaticum</i> strain 22A
15:20-16:30	Poster Presentation of Young Investigators & Coffee Break (7F Multipurpose Hall)
16:30-17:30	Session IV (2F International Conference Hall) “Food and Technology (2)” Chairs: Hideyuki Ito (Okayama Pref. Univ.) Hiromi Yamashita (Okayama Pref. Univ.)
16:30-16:50	O-10 Xu Duan (Henan Univ. Sci. Technol.) New freeze drying technologies for food processing
16:50-17:10	O-11 Yoshiyuki Tanaka (Okayama Univ.) Biosynthesis of low-pungent capsaicinoid analogs in chili pepper fruits is controlled by mutations in putative aminotransferase
17:10-17:30	O-12 Seiji Awane (Yamada Bee Company Inc.) The effect of drink containing honey vinegar on blood flow
17:30-17:40	Announcement of Student Awards & Closing of the Conference
18:00-20:00	Banquet (B1F Reception Hall)