

KAAB International Symposium 2017
Poster session Program

- P-1 **Expression profiles of Δ 1-pyrroline-5-carboxylate synthase (P5CS) gene under salt stress in bread wheat (*Triticum aestivum* L.)**
¹Murat AYCAN, ¹Kimiko ITOH, ²Mustafa YILDIZ
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- P-2 **Smart breeding: Pyramiding genes for salt-, heat- and drought-tolerant rice cultivar using Marker Assisted Backcrossing (MABC)**
¹Rana Md Masud, ¹Takeshi Takamatsu, ¹Takuya Inomata, ¹Kentaro Kaneko, ¹Marouane Baslam, ^{1,2}Toshiaki Mitsui
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² Niigata University Department of Applied Biological Chemistry, Japan.
- P-3 **Magnetorheological and damping properties for new magnetic elastomer with high off-field elastic modulus**
^{1,2}Hiroyuki Endo, ^{1,2}Mika Kawai, ^{1,2*}Tetsu Mitsumata
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- P-4 **Magnetorheological effect for bimodal magnetic elastomers with critical packing of nonmagnetic spheres**
¹Shota Akama, ^{1,2}Mika Kawai, ^{1,2*}Tetsu Mitsumata
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- P-5 **Effect of particle dispersibility on sound velocity for magnetic elastomers**
^{1,2}Yuri Tsujiei, ^{1,2}Mika Kawai, ^{1,2*}Tetsu Mitsumata
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- P-6 **Effect of sonification on magnetorheological effect for magnetic elastomers**
¹Mayuko Watanabe, ^{1,2}Mika Kawai, ^{1,2*}Tetsu Mitsumata
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- P-7 **Chain-formation dynamics for bimodal magnetic elastomers consisting of polyurethane and aluminum hydroxide particles**
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- P-8 **Creation of squalene-ambrein cyclase: ambrein can be synthesized from squalene by one enzyme through two pathways**
Daijiro Ueda, Kotone Okuno, Mao Inoue, Tsutomu Hoshino and Tsutomu Sato
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- P-9 **Analysis of catalytic mechanism of bifunctional triterpene/sesquiterpene cyclase**
Liudmila Tenkovskaia, Mizuki Murakami, Kotone Okuno, Daijiro Ueda, Tsutomu Sato
Department of Applied Biological Chemistry, Faculty of Agriculture,
and Graduate School of Science and Technology, Bioorganic Chemistry Laboratory, Niigata University
- P-10 **Study on the Mechanism of Adsorption of Chromium by Hybrid Membrane of Carboxymethyl Chitosan and Silicon Dioxide**
¹Yanling Deng, ¹Xiaoyu Du, ²Naoto Miyamoto, ²Naoki Kano, ²Hiroshi Imaizumi

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- P-11 **Removal of cadmium and zinc by phytoremediation and development of phytomining method**
¹Takumi Hori, ¹Yuma Okawara, ²Naoto Miyamoto, ²Naoki Kano, ²Hiroshi Imaizumi
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- P-12 **Tannic Acid and EDDS for Removing Heavy Metals from Contaminated Soil**
¹Hiroki Yamamoto, ¹Eriko Kato, ¹Yukihisa Kanazawa, ²Chiro Kishima, ²Naoto Miyamoto, ²Naoki Kano, ²Hiroshi Imaizumi
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- P-13 **Recovery of Metallic Ions from Aqueous Solution by Layered Double Hydroxides Intercalated with Chelating Agents**
¹Shuang Zhang, ²Naoto Miyamoto, ²Naoki Kano, ²Hiroshi Imaizumi
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- P-14 **Rice transmembrane nine 1 is involved in membrane traffic through secretory pathway to plastids**
¹Keisuke Kawata, ²Kazusato Oikawa, ¹Aya Koga, ¹Takeshi Takamatsu, ¹Kentaro Kaneko, ¹Baslam Marouane, ^{1,3}Toshiaki Mitsui
¹ Graduate School of Science and Technology, Niigata Univ., Niigata, Japan;
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- P-15 **Decay control of small RNA in Csr system of *Escherichia coli***
¹Shunta Yamada, ²Takumi Amaki, ^{1,2}Hayuki Sugimoto, ^{1,2}Kazushi Suzuki
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- P-16 **Functional analysis of GGDEF / EAL domain proteins, YliE / YliF, in *Escherichia coli***
¹Yuko Hosoi, ¹Ryota Saito, ²Itsuki Kimura, ¹Tamaki Konno, ¹Yoshihiro Kusama, ¹Daiki Watanabe, ²Takaki Kuge, ¹Kaito Tsukada, ^{1,2}Hayuki Sugimoto, ^{1,2}Takeshi Watanabe, ^{1,2}Kazushi Suzuki
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- P-17 **Analysis of dioxygenase related to production of volatile C8 compounds in *Pleurotus ostreatus***
¹Yuta YOSHINO, ¹Nisei FUJII, ²Takashi HARA, ²Toshio JOH
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- P-18 **Using Bioinformatic Tools in Plant Genomic**
¹F. Şeyma Gökdemir, ¹İlker Büyük, ¹Sümer Aras
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- P-19 **Regulation of chitinase system by small RNA ChiX in *Serratia marcescens***
¹Takuya Yamagisi, ¹Kyoko Horii, ²Naoki Munakata, ¹Haruka Minami, ^{1,2}Hayuki Sugimoto, ^{1,2}Takeshi Watanabe, and ^{1,2}Kazushi Suzuki
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- P-20 **Chromosome doubling of *Tricyrtis formosana* by amiprofos-methyl treatment of embryogenic calli**

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- P-21 **Characterization of transgenic *Lilium* sp. plants carrying a chimeric repressor gene-silencing technology (CRES-T) construct of the B class MADS-box gene derived from *Tricyrtis* sp.**
¹Kaiki Aoyagi, ¹Masahiro Otani, ²Hitoshi Kobayashi, ²Toshikazu Nomizu, ²Hiroaki Okuhara, ²Masataka Kondo, ¹Masaru Nakano
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- P-22 **Production and characterization of transgenic *Torenia* concolor plants ectopically expressing the R2R3-MYB gene from *Tricyrtis* sp**
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- P-23 **Production and characterization of interspecific hybrids between *Tricyrtis formosana* and *T. macranthopsis* via ovule culture**
¹Toshiya Inamura, ¹Manami Nakazawa, ¹Hinako Sasage, ²Masahiro Otani, ²Masaru Nakano
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- P-24 **Functional analysis of late embryogenesis abundant (LEA) proteins in heat stress-induced chalky grain of rice**
¹Ayuka Katoh, ¹Yuuki Satoh, ¹Kentaro Kaneko, ³Ignacio Ezquer, ²Marouane Baslam, ^{1,2}Toshiaki Mitsui
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- P-25 **Identification and functional analysis of *Flowering Locus T (FT)* homologous gene from *Vanda***
¹Eriko Suzuki, ^{1,2}Kanokwan Panjama, ¹Masahiro Otani, ¹Norikuni Ohtake, ¹Takuji Ohyama, ¹Masaru Nakano, ²Soraya Ruamrungsri, ¹Kuni Sueyoshi
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- P-26 **Nondestructive discrimination of mixed foreign rice by AI (Artificial Intelligence)**
¹Saaya Tanba, ²Kazuhiro Nakano, ¹Shintaroh Ohashi, ¹Shoh Moriya, ²Ken-ichi Takizawa, ²Phonkrit Maniwara, ³Takaoki Hayashikoshi
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- P-27 **Effect of Elevated CO₂ (ECO₂) on Appearance Quality of Rice Grains**
¹Nodoka Wakamatsu, ²Masashi Saito, ¹Takuya Inomata, ¹Kentaro Kaneko, ²Marouane Baslam, ^{1,2}Toshiaki Mitsui
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- P-28 **Hydrogen peroxide priming induces high temperature tolerance in seedling growth and heading stages**
¹Yukiko Sasuga, ¹Yudai Mitsui, ²Kentaro Kaneko, ²Takeshi Takamatsu, ²Marouane Baslam, ^{1,2}Toshiaki Mitsui
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- P-29 **Redox sensing proteome analysis in hydrogen peroxide priming treatment**
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- P-30 **Identification of molecular processing events and degradome pattern in *Oryza sativa subsp. Japonica* at different developmental stages**
¹Amr Elguoshy, ¹Toshiaki Mitsui
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- P-31 **Analysis of white-Core Kernels of the sake-brewing rice cultivars**
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- P-32 **Deciphering the molecular mechanisms toward systems biology perspectives involved in growth, starch over-accumulation and yield in Rice plants exposed to Volatile Compounds (VCs) emitted by *Aspergillus oryzae***
¹Riho Akatsuka, ^{1,2}Baslam Marouane, Javier Pozueta-Romero^{3,1,2}, ^{1,2}Toshiaki Mitsui
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- P-33 **Effect of black rice bran extract and its anthocyanin pigment cyanidin-3-O-glucoside on amyloid beta-induced neurotoxicity in SK-N-SH cells**
¹Mitsuhisa ISHIBASHI, ²Takashi HARA, ³Takeshi IKEUCHI, ⁴Sumiko NAKAMURA, ²Toshio JOH, ³Masatoyo NISHIZAWA, ⁵Akira YAMAZAKI, ⁵Atsushi KOBAYASHI, ⁴Ken'ichi OHTSUBO
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- P-34 **INFLUENCE OF NITROGEN NUTRITION ON PHOTOSYNTHETIC REDOX HOMEOSTASIS AND ENERGY BALANCE IN RICE PLANTS EXPOSED TO ELEVATED CO₂ CONDITION**
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- P-35 **MICROBIAL VOLATILES MODULATE RAPID RESPONSES IN ARABIDOPSIS THROUGH THIOL OXIDATION OF CYSTEINES AS REVEALED BY QUANTITATIVE SITE-SPECIFIC REDOX PROTEOMICS**
³Kinia Amezttoy-Del Amo, ^{1,2}Marouane Baslam, ²Kaneko Kentaro, ³Francisco José Muñoz, ³Ángela María Sánchez-López, ³Abdellatif Bahaji, ³Goizeder Almagro, ³Eduarne Baroja-Fernández, ^{1,2}Toshiaki Mitsui, ³Javier Pozueta-Romero
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- P-36 **EVIDENCE FOR THE OCCURRENCE OF STARCH DEGRADATION AND CYCLING IN ILLUMINATED ARABIDOPSIS LEAVES**
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P-37 **Function and Molecular Structure of *Oryza sativa* α -Amylase I -1**

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P-38 **PHYTOPATHOGENS: A GOOD OPPORTUNITY TO IMPROVE CROP YIELDS AND QUALITY UNDER CHANGING ENVIRONMENTAL CONDITIONS (POISE)**

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P-39 **TOWARDS A MULTI-APPROACH STUDY FOCUSED ON IMPROVING RESOURCE USE EFFICIENCY IN CEREALS UNDER CLIMATE CHANGE (IRUEC)**

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