

KAAB International Symposium 2014
Poster session Program

- P-1 **Recovery of Heavy Metals by phytoremediation along with biosurfactant and chelating agent application**
Lidi Gao^{1,2}, Shuang Zhang¹, Meiling Pang¹, Naoki Kano³, Hiroshi Imaizumi³
¹ Graduate School of Science and Technology, Niigata Univ., Niigata, Japan;
² Dept. of Chem. and Chem. Eng., Qiqihar Univ., Qiqihar, China;
³ Dept. of Chem. and Chem. Eng., Fac. of Eng., Niigata Univ., Niigata, Japan
- P-2 **Adsorption of Heavy Metal onto the Natural Materials Based on Some Biomass**
Meiling Pang¹, Liang Xu^{1,2}, Yanling Deng¹, Naoki Kano³, Hiroshi Imaizumi³
¹ Graduate School of Science and Technology, Niigata Univ., Niigata, Japan;
² Dept. of Chem. and Chem. Eng., Qiqihar Univ., Qiqihar, China;
³ Dept. of Chem. and Chem. Eng., Fac. of Eng., Niigata Univ., Niigata, Japan
- P-3 **Structure-based functional analysis of α -amylase from rice (*Oryza sativa*)**
Hiroshi Sugai¹, Akihito Ochiai¹, Masayuki Taniguchi¹, Toshiaki Mitsui¹
¹ Grad. Sch. Sci. Technol., Niigata Univ., Niigata, Japan
- P-4 **Biological control of white mold (*Sclerotinia sclerotiorum*) on mustard with antifungal *Bacillus* spp.**
M.M.E. Rahman^{1,2,3}, M.D. Hossain², Masanori Nonaka⁴ and Naoki Harada⁴
¹ Plant Pathology Division, Bangladesh Agricultural Research Institute, Gazipur, Bangladesh.
² Department of Plant Pathology, Bangladesh Agricultural University, Mymensingh, Bangladesh.
³ Graduate School of Science and Technology, Niigata University, Niigata, Japan
⁴ Institute of Science and Technology, Niigata University, Niigata, Japan
- P-5 **Knockout mutation of *Nucleotide Pyrophosphatase/Phosphodiesterase 1* gene stimulates accumulation of starch and photosynthesis**
Takahiro Masui¹, Takuya Inomata¹, Syotaro Wakui², Kentaro Kaneko², Toshiaki Mitsui²
¹ Grad. Sch. Sci & Tech. and ² Dept. Applied Biol. Chem., Niigata University, Japan
- P-6 **Antagonisms of *Trichoderma* spp. against collar rot of tomato seedlings caused by *Sclerotium rolfsii***
M.M. Islam^{1,2,3}, Delwar M Hossain², Masanori Nonaka⁴ and Naoki Harada⁴
¹ Department of Plant Pathology & Seed Science, Sylhet Agricultural University, Sylhet, Bangladesh
² Department of Plant Pathology, Bangladesh Agricultural University, Mymensingh, Bangladesh
³ Graduate School of Science & Technology, Niigata University, Niigata, Japan
⁴ Institute of Science and Technology, Niigata University, Niigata, Japan
- P-7 **Chromosome doubling of a colchicaceous intergeneric hybrid by spindle toxin treatments**
Miki YAMAKAWA¹, Tomonari KISHIMOTO¹, Tomoka SAITO¹, Takeru SATO¹ and Masaru NAKANO¹
¹ Niigata Univ., Niigata, Japan
- P-8 **Isolation and characterization of the flavonoid biosynthesis-related genes in *Tricyrtis* sp.**
Yusuke Kanemaki¹, Yoshiko FUNAYAMA¹, Masahiro OTANI¹ and Masaru NAKANO¹
¹ Niigata Univ., Niigata, Japan
- P-9 **Production of transgenic *Tricyrtis* sp. plants containing the anthocyanin-associated R2R3-MYB gene from *Arabidopsis thaliana***
Atsushi KANAMAKI¹, Moe IGARASHI¹, Masahiro OTANI¹ and Masaru NAKANO¹
¹ Niigata Univ., Niigata, Japan
- P-10 **Hybrid production between transgenic and non-transgenic plants in the genus *Tricyrtis***
Shoichi SATO¹, Mitsuyo ISHIBE¹, Masahiro OTANI¹ and Masaru NAKANO¹
¹ Niigata Univ., Niigata, Japan

- P-11 **Isolation and characterization of *LEAFY*-like genes from two *Tricyrtis* spp., *T. hirta* and *T. formosana* (Liliaceae)**
Masahiro OTANI¹, Nao OKUZUMI¹ and Masaru NAKANO¹
¹Niigata Univ., Niigata, Japan
- P-12 **Functional analysis of barley low-affinity nitrate transporter**
Daiki Nozawa, Masahiro Takada, Masato Shinohara, Norikuni Ohtake, Takuji Ohyama, and Kuni Sueyoshi
¹ Graduate School of Science and Technology, Niigata Univ., Niigata, Japan
- P-13 **Ammonium transporter, HvAMT1, in barley**
Masato Shinohara, Shinji Ishikawa, Norikuni Ohtake, Takuji Ohyama and Kuni Sueyoshi
¹ Graduate School of Science and Technology, Niigata Univ., Niigata, Japan
- P-14 **Knockout mutation of *NPP1* gene enhances starch accumulation and growth in rice seedlings under high temperature and high CO₂ concentration conditions**
Takuya Inomata¹, Kentaro Kaneko², Takahiro Masui¹, Kimiko Itoh¹, Javier Pozueta-Romero³, Toshiaki Mitsui^{1,2}
¹ Niigata University Graduate School of Science and Technology, Japan,
² Niigata University Department of Applied Biological Chemistry, Japan
³ CSIC, UPNA, Gobierno de Navarra, Instituto de Agrobiotecnología, Spain
- P-15 **Expression of *CDC10* gene in skeletal muscle and a novel SNP's association with growth-related traits in Japanese Black beef cattle**
Bin Tong¹, Seiki Sasaki², Tatsuo Fujita³ and Takahisa Yamada¹
¹ Department of Agrobiolgy, Faculty of Agriculture, Niigata University, Niigata, Japan.
² Division of Animal Genetics, Maebashi Institute of Animal Science, Livestock Improvement Association of Japan, Gunma, Japan.
³ Oita Prefectural Institute of Animal Industry, Oita, Japan.
- P-16 **A proteomic analysis of female *Nipponia nippon***
Mitsuru Oyanagi^{1,2,7}, Kentaro Kaneko², Yoshinori Kaneko³, Hideaki Yamashiro^{4,7}, Takahisa Yamada^{4,7}, Toshie Sugiyama^{4,7}, Maiko Sasaki², Chizuko Nishida⁵, Yoichi Matsuda⁶ and Toshiaki Mitsui¹
¹ Genome Research Center Faculty of Agri., Niigata Univ.
² Laboratory of Plant and Microbial Genome Control, Graduate School of Science and Technology, Niigata Univ.,
³ Sado Japanese Crested Ibis Conservation Center (SJCICC),
⁴ Department of Aerobiology, Faculty of Agri., Niigata Univ.,
⁵ Department of Natural History Sciences, Faculty of Science, Hokkaido Univ.,
⁶ Avian Bioscience Research Center (ABRC), Graduate School of Bioagricultural Sciences, Nagoya Univ.,
⁷ Center for Toki and Ecological Restoration, Niigata Univ.
- P-17 **L-β-Phenyllactic Acid (LPA) as a stimulator of rice (*Oryza sativa* L.) seedling growth**
Yusuke Adachi¹, Kazuhiko Kimura², Masahiko Saigusa³ and Hajime Watanabe¹
¹ Faculty of Agriculture, Niigata University, Ikarashi, Niigata, Japan
² School of Food, Agricultural and Environmental Sciences, Miyagi University, Sendai, Japan
³ Toyohashi University of Technology, Toyohashi, Aichi, Japan
- P-18 **Improvement of rice seedling growth in direct seeding culture by combined application of gibberellin and ethylene-releasing agent ethephon**
Yusuke Adachi and Hajime Watanabe
Faculty of Agriculture, Niigata University, Niigata, Japan

- P-19 **Rice cultivars with short panicle and low grain/straw ratio for whole-crop silage use**
Kei Matsushita^{1,2,3}, Takuro Ishii^{3,4}, Yoshihiro Sunohara^{3,5} and Hajime Watanabe¹
¹Graduate School of Science and Technology, Niigata Univ., Niigata, Japan;
²NARO Agricultural Research Center, Joetsu, Japan;
³NARO Western Region Agricultural Research Center, Fukuyama, Japan;
⁴NARO Institute of Crop Science, Tsukuba, Japan;
⁵NARO Hokkaido Agricultural Research Center, Sapporo, Japan
- P-20 **Light-Dependent Organelles Communication in Photosynthetic Tissues**
**Kazusato Oikawa¹, Maki Kondo², Shoji Mano², Wataru Sakamoto³, Takanori Iino⁴,
Yoichiro Hosokawa⁴, Toshiaki Mitsui¹, and Mikio Nishimura²**
¹Department of Applied Biological Chemistry, Faculty of Agriculture, Niigata Univ., Niigata, Japan;
²Department of Cell Biology, NIBB., Aichi, Japan;
³Institute of Plant Science and Resources, Okayama Univ., Okayama, Japan;
⁴Graduate School of Materials Science, Nara Institute of Science and Technology., Nara, Japan.
- P-21 **Effect of potassium application on radiocesium uptake of soybean**
Sayaka MOTOJIMA¹, Naoki HARADA², Masanori NONAKA²
¹Graduate school of Science and Technology, Niigata Univ., Niigata, Japan;
²Institute of Science and Technology, Niigata Univ., Niigata, Japan
- P-22 **Clarification of generating mechanism of chalky rice grains caused by high temperature during grain filling**
Nanako Kuribayashi¹, Kentaro Kaneko², Takeshi Shiraya³, Maiko Sasaki¹, Toshiaki Mitsui^{1,2}
¹Graduate School Science and Technology, Niigata Univ., Niigata, Japan;
²Department of Applied Biological Chemistry, Niigata Univ., Niigata, Japan;
³Niigata Agricultural Research Institute, Niigata, Japan
- P-23 **Chloroplast envelope membrane protein, *Oryza sativa* LACS9, is targeted through unknown vesicle traffic to chloroplast.**
Takeshi Takamatsu^{1,2}, Yuki Hamada¹, Tomoko Taniuchi¹, Namiko Ito¹, Toshiaki Mitsui^{1,2}
¹Grad. Sch. Sci & Tech. and ²Dept. Applied Biol. Chem., Niigata University, Japan
- P-24 **Study of subcellular Localization of rice SUMO3**
**Mamiko Fukushima¹, Natsuki Noguchi², Takuya Kushioka², Kentaro Kaneko¹, Attia Kotb²,
Toshiaki Mitsui^{1,2}, Kimiko Itoh²**
¹Fac.Agr.,Niigata-U,²Grad.Sch.Sci.Tech.,Niigata-U