

Poster Abstracts

The International Symposium on Biomass Refinery: From Biomass Crops to Chemicals and Fuels

Organized by the Global Station for Food, Land and Water Resources as well as co-organized by the Graduate School of Global Food Resources, the Research Faculty of Agriculture, and the Faculty of Engineering

Date: February 5th (Mon) and 6th (Tue), 2018

Venue: Akira Suzuki Hall, Hokkaido University (North 13 West 8, Kita-ku, Sapporo)

Offered Posters

P-1

Genetic polymorphism of Ghd7 in heading date among *Miscanthus sinensis* from Asia
Zhihui Guo, Hironori Nagano, Erik J. Sacks, Toshihiko Yamada

P-2

Photosynthetic performance of intergeneric hybrids between *Saccharum* spp. and *Miscanthus* spp. compared with their parents
Kar Suraj, Zhang Na, Nakashima Taiken, Yamada Toshihiko

P-3

Effects of plant defensive substances on growth and CAZy production of wood decay fungus *Pereniporia fraxinea* that infects living tree
Chiaki Hori, Ruy Matsumoto, Toshizumi Miyamoto, Kengo Shigetomi

P-4

Dynamic changes of intracellular monomer levels regulate block sequence of polyhydroxyalkanoates in engineered *Escherichia coli*
Ryunosuke Fujii, Ken'ichiro Matsumoto, Chiaki Hori, Masahiro Takaya, Takashi Ooba, Seiichi Taguchi, Toshihiko Ooi, Takuya Isono, and Toshifumi Satoh

P-5

An unprecedented glutamate epimerase for bacterial peptidoglycan biosynthesis
Ruoyin Feng, Yasuharu Satoh, Yasushi Ogasawara, Tohru Yoshimura, Tohru Daiiri

P-6

Functional analysis of 3-ketoacyl reductase and dehydratase domains in polyunsaturated fatty acid synthases
Shohei Hayashi, Yasuharu Satoh, Yasushi Ogasawara, Tetsuro Ujihara, Tohru Daiiri

Interim reports by students of Graduate School of Global Food Resources

- GFR-1** The effect of the timing of maize and clover residue applications to a soil on microbial activity and community
Tsukino Ito
- GFR-2** Genotype-screening tool for water stress tolerance of bioenergy plants
Tzu-Ya Weng
- GFR-3** Composition analysis of a novel lignocellulosic biomass crop (Miscane)
Kiko Eguchi
- GFR-4** Analysis of microbial flora about vineyard soil in Hokkaido
Marina Ema

- GFR-5** Proteomic and biochemical analyses of plant biomass-degrading capabilities from novel insect-associated cellulolytic *Streptomyces*
Keisuke Ohashi
- GFR-6** The historical changes of rural Communities and agriculture under the political power-Case study of Sri Lanka-
Saori Kanaba
- GFR-7** Research on microbial endophytes isolated from wine grapes in Hokkaido
Tomohiko Kimura
- GFR-9** Studies on mechanisms of non-enzymatic of wine reductive characters in bottle
Sasaki Kohei
- GFR-10** Recovering potassium from cow urine
Ryo Shigahara
- GFR-11** Survey for the norm to human excreta
Makoto Shigei
- GFR-12** Study of bacteriostatic mechanism of SO₂ in wine production
Xiao Zihao
- GFR-13** Studies on productivity of Happy Farmhouse in China
Tomoki Hayashi
- GFR-14** Fate of pharmaceuticals in forward osmosis technology
Shingo Harashima
- GFR-15** Development of technology for non-destructive rice constituent contents determination using near-infrared spectroscopy
Miki Matsuo
- GFR-16** Damming-up effect of drainage ditches on groundwater table of small peat bog
Minoru Yokochi
- GFR-17** Evaluation of heavy metal Adsorption property of alginic acid-graphene composite electrode
Shuang Li