

# International Workshop on Soil-Microbe-Plant Interaction

December 3-4, 2016 Kurashiki, Japan

## December 3

13:00 Welcome Address by Jian Feng Ma (岡山大学)

Chair: Fangjie Zhao

13:10 沈其荣 Qirong Shen (南京農業大学)

Development of bioorganic fertilizers and the acting mechanisms of functional microbes added into the products

13:35 沈仁芳 Renfang Shen (南京土壤研究所)

Strategies towards sustainable use of acid soils

14:00 小山博之 Hiroyuki Koyama (岐阜大学)

Transcriptional biomarker that can evaluate Al-toxicity in acid soil - A case study in a model plant Arabidopsis

14:20 荒尾知人 Tomohito Arao (農研機構)

Simultaneous decrease of arsenic and cadmium in rice grains in Japanese paddy field

14:40 Coffee break

Chair: Hiroyuki Koyama

15:00 趙方杰 Fangjie Zhao (南京農業大学)

Microbial processes mediating arsenic transformation in paddy soils

15:25 Won-Yong Song (POSTECH)

Engineering rice to reduce As accumulation in grain

15:45 严峰 Feng Yan (Justus Liebig University)

Use efficiency of phosphorus by crop plants

16:10 和崎淳 Jun Wasaki (広島大学)

Effects of exudates from cluster roots on the mineral ion uptake and microbial communities in the rhizosphere soil

Chair: Shao Jian Zheng

16:30 中尾淳 Jun Nakao (京都府立大学)

Aeolian-dust-derived micaceous minerals control radiocesium transfer from soil to plant in Andosols in Japan

16:50 古川純・野田祐作 Jun Furukawa・Yusaku Noda (筑波大学)

Correlation between seasonal change of cesium behavior and expression of potassium transport channels in poplar

17:10 野村美加 Mika Nomura (香川大学)

Iron-induced nitric oxide leads to an increase in the expression of ferritin in Lotus japonicus nodules

17:30 田野井慶太郎 Keitaro Tanoi (東京大学)

Radioisotope imaging technique for plant science

17:50 山地直樹 Naoki Yamaji (岡山大学)

Reducing phosphorus accumulation in rice grains with an impaired transporter in the node

18:20 Welcome party



## December 4

Chair: Tomohito Arao

8:30 封克 Feng Ke (揚州大学)

Potassium, sodium and carbon sources affecting the dynamics of fixed ammonium by clay minerals

8:55 矢内純太 Junta Yanai (京都府立大学)

Effects of inorganic ions and organic acids on the release of nonexchangeable potassium from K-bearing minerals - rhizosphere conditions can enhance nonex-K release from minerals

9:15 余鈴 Ling Yu (南京農業大学)

Two birds with one stone: How does a high affinity potassium transporter affect rice plant architecture?

9:40 小林高範 Takanori Kobayashi (石川県立大学)

Regulation of rice iron deficiency response and possible iron sensing by HRZ ubiquitin ligases

10:00 Coffee Break

Chair: Renfang Shen

10:20 唐昊冶 Haoye Tang (南京土壤研究所)

Ozone impacts on regional rice and wheat production

10:45 小林優 Masaru Kobayashi (京都大学)

Early responses of Arabidopsis plants to boron deprivation

11:05 高野順平 Junpei Takano (大阪府立大学)

Polar localization of boric acid transporters for efficient uptake of B from soil in Arabidopsis thaliana

11:25 三輪京子 Kyoko Miwa (北海道大学)

A novel strategy to identify genetic mutations to improve boron use efficiency in Arabidopsis thaliana

11:45 上野大勢 Daisei Ueno (高知大学)

The role of cation diffusion facilitators in manganese homeostasis in rice

12:05 Lunch

Chair: Junpei Takano

13:00 章文華 Wenhua Zhang (南京農業大学)

K and Na transporters involved in salt tolerance in rice and regulation by transcription factor and lipid signaling

13:25 堀江智明 Tomoaki Horie (信州大学)

Mechanisms of Na<sup>+</sup> exclusion from leaves in rice upon salinity stress

13:45 太治輝昭 Teruaki Taji (東京農業大学)

A single NLR immunity locus underlies species-wide variation in acquired osmotolerance in Arabidopsis thaliana

Chair: Feng Yan

14:05 石川亮 Ryo Ishikawa (神戸大学)

Identification of quantitative trait loci controlling seed-zinc concentration using Australian wild rice, *Oryza meridionalis*

14:25 櫻井玄 Gen Sakurai (農研機構)

Modeling mineral transportation and its control

14:45 鄭紹建 Shao Jian Zheng (浙江大学)

The integrative aluminum resistant mechanisms in rice bean

15:10 Closing remark by Qirong Shen (南京農業大学)

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