

Program

March 27

- 12:30- Registration
13:00-13:10 Welcome address by Jian Feng MA and Yi ZHENG

Chairman: **Toru Fujiwara** (The University of Tokyo)

- 13:10-13:35 **Naoko NISHIZAWA** (Ishikawa Prefectural University)
Phytosiderophore efflux transporters crucial for iron acquisition in plants
13:35-14:00 **Shao Jian ZHENG** (Zhejiang University)
Fe-deficiency-induced response and its regulation in strategy I plants
14:00-14:20 **Takanori KOBAYASHI** (The University of Tokyo)
Regulatory mechanism of iron deficiency response by the transcription
factor IDEF1
14:20-14:40 Coffee Break

Chairman: **Shao Jian Zheng** (Zhejiang University)

- 14:40-15:00 **Rellan-Alvarez RUBEN** (CSIC)
Iron xylem transport, the long and short of it
15:00-15:15 **Ryoichi ARAKI** (Suntory Foundation for Life Sciences)
Study of iron sensing focusing on primary root elongation in Arabidopsis
15:15-15:30 **Luqing ZHENG**
OsYSL16 is a transporter of Cu-nicotianamine complex for Cu
translocation in rice
15:30-15:45 **Akiko MARUYAMA** (Kyusyu University)
Roles of sulfur-responsive *cis*-acting elements in uptake and root to shoot
transport of sulfate
15:45-16:05 Coffee Break

Chairman: **Jun WASAKI** (Hiroshima University)

- 16:05-16:30 **Guohua XU** (Nanjing Agricultural University)
Expression and functional characterization of putative high affinity nitrate
transporters in rice
16:30-16:55 **Miyako KUSANO** (RIKEN Plant Science Center)
Metabolomics data reveal a crucial role of cytosolic glutamine synthetase
1;1 in coordinating metabolic balance in rice
16:55-17:20 **Yi ZHENG** (Yunnan Agricultural University)
Nitrogen application and the rhizosphere microbe flora changes in wheat
and faba bean intercropping system

- 17:20-17:35 **Kuni SUEYOSHI** (Niigata University)
Nitrate transporters in barley
- 17:35-17:50 **Jun MURATA** (Suntory Foundation for Life Sciences)
Regulation of plant growth by bacterial volatile
- 18:00- Welcome party at Kurashiki Kokusai Hotel

March 28

Chairman: **Guohua XU** (Nanjing Agricultural University)

- 9:00-9:25 **Jun WASAKI** (Hiroshima University)
Plant strategies of phosphorus uptake from unavailable forms
- 9:25 -9:50 **Tomoaki HORIE** (Shinshu University)
HKT transporter-mediated K⁺ homeostasis in *Oryza sativa* plants
- 9:50-10:15 **Takuro SHINANO** (National Agricultural Research Center for Hokkaido Region)
Ionome analysis with global climate change
- 10:15-10:30 Coffee Break

Chairman: **Naoko NISHIZAWA** (Ishikawa Prefectural University)

- 10:30-10:55 **Toru FUJIWARA** (The University of Tokyo)
A novel mechanism of Boron-dependent regulation of gene expression: degradation of NIP5;1 mRNA through 5'UTR
- 10:55-11:20 **Junpei TAKANO** (Hokkaido University)
Polar localization and endocytic degradation of boron transporters in *Arabidopsis thaliana*
- 11:20-11:35 **Kyoko MIWA** (Hokkaido University)
Roles of 5'UTR in B-dependent translation of boron transporter in *Arabidopsis thaliana*
- 11:35-11:50 **Takuya SAKAMOTO** (The University of Tokyo)
DNA damages are major cause of B toxicity and condensin II is required for reducing the damages
- 11:50-13:00 Group photo and lunch

Chairman: **Yongchao LIANG** (Chinese Academy of Agricultural Sciences)

- 13:00-13:15 **Yingshi LIANG** (The University of Tokyo)
Functional study of boron in root elongation of *Arabidopsis mur1*, a fucose-deficient mutant
- 13:15-13:30 **Shinichi INOUE** (Nagoya University)
Isolation and characterization of mutants exhibiting the low activity of the plasma membrane H⁺-ATPase in *Arabidopsis* roots
- 13:30-13:45 **Tomo TSUZUKI** (Nagoya University)

- Characterization of open-stomata mutant *rtII* exhibiting ABA-insensitive phenotype in stomatal guard cells
- 13:45-14:00 **Yuki HAYASHI** (Nagoya University)
Characterization of *in vitro* phosphorylation and dephosphorylation of the plasma membrane H⁺-ATPase
- 14:00-14:20 Coffee Break

Chairman: **Takuro SHINANO** (National Agricultural Research Center for Hokkaido Region)

- 14:20-14:45 **Yongchao LIANG** (Chinese Academy of Agricultural Sciences)
Silicon in agriculture – from laboratory to field
- 14:45-15:00 **Naoki YAMAJI** (Okayama University)
Preferential Si distribution to the panicles mediated by transporters for inter-vascular transfer at rice node
- 15:00-15:15 **Namiki MITANI** (Okayama University)
Isolation and functional characterization of silicon transporters in two pumpkin cultivars contrasting in silicon accumulation
- 15:15- 15:30 **Maki KATSUHARA** (Okayama University)
Water transport and its transporters in rice and barley
- 15:30-15:45 **Jiye Rhee** (Okayama University)
Effects of nutrient deficiencies on the water relation in Figleaf gourd cellular level
- 15:45-16:05 Coffee Break

Chairman: **Yi ZHENG** (Yunnan Agricultural University)

- 16:05 - 16:25 **Daisei UENO** (Kochi University)
OsHMA3, a transporter limiting Cd accumulation in rice
- 16:25-16:40 **Kengo YOKOSHO** (Okayama University)
Citrate-transporting MATE proteins play two different physiological roles in plants
- 16:40-16:55 **Jianli YANG** (Zhejiang University)
The role of cell wall polysaccharides in Al toxicity/resistance in plants
- 16:55-17:10 **Hiroki OSAWA** (The University of Tokyo)
The roles of flavonoid accumulation on strong aluminum-resistance in roots of woody plants

Chairman: **Junpei TAKANO** (Hokkaido University)

- 17:10 -17:25 **Tomokazu TSUTSUI** (Okayama University)
Identification of a cis-acting element for ART1, a transcription factor for Al tolerance in rice

- 17:25 - 17:40 **Ji Xing XIA** (Okayama University)
A gene encoding a cysteine-rich peptide is involved in rice Al tolerance
- 17:40-18:05 **Jian Feng MA** (Okayama University)
Aluminium transporters in rice
- 18:05-18:10 Concluding remark
- 18:20- Workshop dinner at Ivy square hotel

March 29

9:00-11:00 Discussion (震災復興支援について)

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