International workshop on plant mineral transport

Date: Jan. 16, 2024

Place: Ohara Conference Room

13:00 **Welcome address by Jian Feng Ma**

**Chair: Naoki Yamaji**

13:05 Renfang Shen (The Institute of Soil Science, CAS)

**Application of attapulgite in improving crop growth in acid soils**

13:25 Ryo Ishikawa (Kobe University)

**Role of qGZn9a in controlling grain zinc concentration in rice, *Oryza sativa* L.**

13:40 Guijie Lei (Yunnan University)

**Functional characterization of two MTP transporter genes in rice**

13:55 Sheng Huang (IPSR, Okayama University)

**Role of OsNramp5 in local distribution of manganese to leaf sheath in rice**

14:10 Tomoaki Horie　(Shinshu University)

**Ion-conducting aquaporin (icAQP) in rice: ion permeability and physiological roles**

14:25 Jing Che (The Institute of Soil Science, CAS)

**A single-cell transcriptome atlas of rice node**

14:40 **Coffee break**

Chair: Namiki Mitani-Ueno

14:55 Mika Nomura (Kagawa University)

**Microbial diversity of sugarcane for production of Wasanbon sugar in Kagawa, Japan**

15:10 Gen Sakurai (NARO)

**Developing mathematical models for plant mineral transportation from root to leaf**

15:25 Takaaki Miyaji (Okayama University)

**The universal evaluation system of plant mineral transporters by purification and reconstitution into liposomes**

15:40 Keitaro Tanoi (University of Tokyo)

 **Altered magnesium uptake and movement in rice due to mutations in the RZF1 zinc-finger protein.**

15:55 Shinichiro Inoue (Nagoya University)

 **Magnesium transport to the vacuoles in guard cells is involved in stomatal opening**

16:10 Yasunori Saito (Okayama University)

**High resolution CryoEM single particle analysis of OsNramp5**

16:25 **Coffee break**

Chair: Noriyuki Konishi

16:45 Namiki Mitani-Ueno (IPSR, Okayama University)

 **Functional analysis of SIET5 in rice**

17:00 Peng Wang (Nanjing Agricultural University)

**Trace Elements in Soil-Plant System: Biogeochemistry, Plant Accumulation, and Human Health**

17:20 **Closing remark**

18:00 **Welcome party (Premier restaurant, 7,000 yen)**