

Program

September 13 (Sat) at Okazaki Conference Center (<http://www.orion.ac.jp/occ-e/index.html>)

8:45- Registration at the Main hall, Okazaki Conference Center

9:15-9:20 Opening Remarks Kiyotaka Okada (Director-General, NIBB)

Session 1 Plant Cell

Chairs: Paul Knox and Ikuko Hara-Nishimura

9:20-10:00 **“Plant Cell Walls, Pectic Arabinans and Plant Growth”**
Paul Knox (Univ. Leeds, UK)

10:00-10:30 **“Different Vacuole-Mediated-Defense Strategies Against Invading Viral and Bacterial Pathogens”**
Ikuko Hara-Nishimura (Kyoto Univ., Japan)

10:30-10:45 **“Light-Dependent Mitochondrial Intracellular Positioning in *Arabidopsis thaliana* Mesophyll Cells”**
Md. Sayeedul Islam (Osaka Univ., Japan), Poster # P24

Session 2 Phytohormones

Chairs: Stefan Kepinski and Moto Ashikari

10:45-11:25 **“Quantitative and Contextual Modelling of Transcriptional Responses to Auxin”**
Stefan Kepinski (Univ. Leeds, UK)

11:25-11:55 **“Regulation in Ethylene Signaling Allows Rice to be Aquatic”**
Moto Ashikari (Nagoya Univ., Japan)

11:55-12:10 **“Polyamine-Dependent Control of Stem Elongation in *Arabidopsis*”**
Taku Takahashi (Okayama Univ., Japan), Poster # P30

12:10-13:30 *Lunch*

13:30-14:30 **Poster Session** (odd numbers)

Session 3 Systems Biology and Evo-Devo

Chairs: Gerrit T.S. Beemster and Takahiro Yamaguchi

14:30-15:10 **“Systems Biology Approaches to Leaf Development”**
Gerrit T.S. Beemster (Ghent Univ., Belgium)

15:10-15:40 **“Evolutionary Developmental Studies on Unifacial Leaves in Monocots”**
Takahiro Yamaguchi (NIBB, Japan)

15:40-15:55 **“Profiling of Regulatory Network Governing *Arabidopsis* Leaf Development”**
Frederik Coppens (Ghent Univ., Belgium)

15:55-16:10 **“Gene Losses in the Cultivated Rice Unveiled by Comparative Analysis with Wild Relatives”**
Hiroaki Sakai (Nat’l Inst. Agrobiol. Sci., Japan), Poster # P02

16:10-16:25 *Coffee break*

Session 4 Leaf Development

Chairs: Jose Luis Micol and Yasunori Machida

16:25-17:05 **“Lessons from a Search for Leaf Mutants in *Arabidopsis thaliana*”**
Jose Luis Micol (Univ. Miguel Hernandez, Spain)

17:05-17:35 **“Roles of *ASYMMETRIC LEAVES2 (AS2)* and *ASYMMETRIC LEAVES1 (AS1)* of *Arabidopsis thaliana* in Leaf Development”**
Yasunori Machida (Nagoya Univ., Japan)

17:35-17:50 **“Growth Coordination is Essential for Arabidopsis Leaf Flatness”**
Jose Manuel Perez-Perez (Univ. Miguel Hernandez, Spain)

17:50-18:05 **“Analysis of *enlarged fil-expression domain1 (enf1)* Mutant Defective in Establishment of the Adaxial-Abaxial Axis in Leaves”**
Koichi Toyokura (Kyoto Univ. / NIBB, Japan), Poster # P45

18:10- *Banquet*

September 14 (Sun)

Session 5 Flower Induction Mechanism

Chairs: George Coupland and Antonis Giakountis

9:00-9:40 **“Seasonal Control of Flowering in Annual and Perennial Plants”**
George Coupland (Max Planck Inst., Germany)

9:40-9:55 **“Molecular-Genetic Analysis of Natural Variation in Day Length Perception for Flowering in *Arabidopsis*”**
Antonis Giakountis (Max Planck Inst., Germany)

9:55-10:10 **“Intragenic Elements and the Evolution of the Floral C-Function”**
Barry Causier (Univ. Leeds, UK)

10:10-10:25 **“*APETALAI* Homolog Expression is Induced Immediately by a Single Short-Day in *Pharbitis nil*”**
Ryuta Sasaki (Univ. Tsukuba, Japan), Poster # P29

10:25-10:45 *Coffee break*

Session 6 **New Model Plants and Engineering**

Chairs: Hiroshi Ezura and Yoshikazu Tanaka

- 10:45-11:15 **“Comprehensive Resources for Tomato Functional Genomics Based on the Miniature Model Tomato Micro-Tom”**
Hiroshi Ezura (Univ. Tsukuba, Japan)
- 11:15-11:45 **“Engineering Metabolic Pathway in Floricultural Species to Achieve Novel Colour Flower and Water Remediation”**
Yoshikazu Tanaka (Suntory Ltd., Japan)
- 11:45-12:00 **“The Liverwort *Marchantia polymorpha* L. as an Unique Model Plant”**
Kimitsune Ishizaki (Kyoto Univ., Japan), Poster # P13
- 12:00-13:30 *Lunch*
- 13:30-14:30 **Poster Session** (even numbers)

Panel Discussion: Frontiers of Plant Science in the 21st Century

14:30-17:00 Organizing Chair
Tsuyoshi Aoyama (NIBB / Sokendai)

Discussion Chair
Seiji Takeda (NAIST)
Christian Breuer (RIKEN Plant Sci. Center)

Panelist
Tsuyoshi Aoyama (NIBB / Sokendai)
Barry Causier (Univ. Leeds, UK)
Frederik Coppens (Ghent Univ., Belgium)
Antonis Giakountis (Max Planck Inst., Germany)
Yasunori Ichihashi (Univ. Tokyo / NIBB)
Jose M. Perez-Perez (Univ. Miguel Hernandez, Spain)
Bo Sun (National Univ. Singapore, Singapore)
Toshiaki Tameshige (Kyoto Univ. / NIBB)

September 15 (Mon)

Session 7 **Meristem Organization**

Chairs: Venugopala R. Gonehal and Toshiro Ito

- 9:00-9:40 **“A Gene Expression Map of the Shoot Apical Meristem Stem-Cell Niche of *Arabidopsis thaliana*”**
Venugopala Reddy Gonehal (UC Riverside, USA)
- 9:40-10:10 **“Downstream Activities of the Homeotic Protein AGAMOUS in *Arabidopsis* Flower Development ”**
Toshiro Ito (National Univ. Singapore, Singapore)

10:10-10:25 **“How Homeotic Protein AGAMOUS Controls Floral Meristem Determinacy in *Arabidopsis*”**
Bo Sun (National Univ. Singapore, Singapore)

10:25-10:40 **“Molecular Dissection of CLV3 Peptide Signalling”**
Shigeyuki Betsuyaku (Univ. Tokyo, Japan), Poster # P39

10:40-11:00 *Coffee break*

Session 8 Intercellular Signaling and Epigenetics

Chairs: Yoshikatsu Matsubayashi and Tetsuji Kakutani

11:00-11:30 **“Novel Approaches to Identify Peptide Hormone Candidates in *Arabidopsis*”**
Yoshikatsu Matsubayashi (Nagoya Univ., Japan)

11:30-12:00 **“Genetics of DNA Methylation in the *BONSAI* Locus”**
Tetsuji Kakutani (NIG, Japan)

12:00-12:15 **“RNAi-Mediated Crop Improvement for Sustainable Resistance to Plant-Parasitic Nematodes”**
Richard Collins (Univ. Leeds, UK)

12:15-12:30 **“*ANXURI* and 2, Sister Genes to *FERONIA/SIRENE* are Male Factors for Coordinated Fertilization”**
Saori Miyazaki (NIBB, Japan), Poster # P43

12:30-13:30 *Lunch*

Session 9 Plant-Microbe Interaction

Chairs: Paul Schulze-Lefert, Masayoshi Kawaguchi and Ko Shimamoto

13:30-14:00 **“Long-Distance Control of Nodulation in *Lotus japonicus*”**
Masayoshi Kawaguchi (Univ. Tokyo, Japan)

14:00-14:40 **“Natural Chemical Diversity in the Brassicaceae: A Novel Glucosinolate Degradation Pathway Mediates Broad-Spectrum Antifungal Defense”**
Paul Schulze-Lefert (Max Planck Inst., Germany)

14:40-15:10 **“Defensome Model for Rice Innate Immunity”**
Ko Shimamoto (NAIST, Japan)

15:10-15:25 **“Signal Integration between MAMP-Triggered Immunity and Abiotic Stress Responses”**
Yusuke Saijo (Max Planck Inst., Germany)

15:25-15:40 **“Nonhost Resistance of *Arabidopsis* to Anthracnose Fungi”**
Yoshitaka Takano (Kyoto Univ., Japan), Poster # P05

15:40-15:45 Closing Remarks Hirokazu Tsukaya (Univ. Tokyo / NIBB, Japan)
