2:00pm - 4:00pm

REGISTRATION

Auditorium 2 Foyer

2:00pm - 4:00pm

POSTER BROWSING

Sports Hall 2 (Zone A), Sports Hall 2 (Zone B)

4:00pm - 6:00pm

OPENING KEYNOTE 1

Cell Biology of Mechanical Response in the Shoot Apical Meristem

Auditorium 2

Elliot Meyerowitz

California Institute of Technology (CALTECH), USA

OPENING KEYNOTE 2

Connecting NLR Resistosome-Mediated Ca2+ Influx to the Execution of Effector-Triggered Immunity

Auditorium 2

Xinnian Dong

Duke University, USA

6:00pm - 8:00pm

RECEPTION

Auditorium 2 Foyer

Programme is subject to changes without prior notice

9:00am - 8:00pm

POSTER BROWSING

Sports Hall 2 (Zone A), Sports Hall 2 (Zone B)

9:00am - 10:30am

PLENARY 1 - PLANT DEVELOPMENT

Auditorium 2

Tetsuya Higashiyama
University of Tokyo, Japan

Centering stomatal biology
Dominique Bergmann
Stanford University, USA

How the FLOWERING LOCUS T locus manages to be both highly responsive to environmental cues and restrained
Franziska Turck
Max Planck Institute, Germany

10:30am - 11:00am

COFFEE / TEA BREAK

Auditorium 2 Foyer

11:00am - 12:30pm

CONCURRENT 1-4

Concurrent Session 1
Auditorium 2
Plant Cell Biology
Chair: Yvon Jaillais

11:00am - 11:20am *20 mins*
From membrane nanodomains to polar domains: the regulation of Rho GTPase membrane dynamics and their impact on signal specificity output
Yvon Jaillais
Ecole Normale Supérieure de Lyon, France

11:20am - 11:40am *20 mins*
New insight into BRI1 regulation and BRI1-mediated signaling
Gregory Vert
Toulouse, France

11:40am - 12:00pm *20 mins*
Interplay between Membrane Dynamics and Plant Selective Autophagy
Xiaohong Zhuang
CUHK, Hong Kong

12:00pm - 12:15pm *15 mins*
Cellulose Synthase Complexes and Remorins Mediate Stress Resilience Through Cell Wall-Plasma Membrane Attachments
Yue Rui
Stanford University, USA

12:15pm - 12:30pm *15 mins*
Reodermis: A de novo epidermal barrier for wound repair in mature leaves
Yuree Lee
Seoul National University, Korea

Concurrent Session 2
Auditorium 1
Single-cell and Spatial Biology
Chair: Jiawei Wang

11:00am - 11:20am *20 mins*
ID-seq: Rapid Perturbations of Cell Identity and Single Cell RNA-seq
Kenneth Birnbaum
New York University, USSA

11:20am - 11:40am *20 mins*
High-resolution Spatiotemporal Multi-omics in Arabidopsis and Beyond
Xun Xu
BGI, China

11:40am - 12:00pm *20 mins*
A Developmental Viewpoint of Plant Inflorescence Evolution at Single-Cell Resolution
Xiaosa (Jack) Xu
University of California Davis, USA

12:00pm - 12:15pm *15 mins*
A ploidy-resolved single-nucleus atlas reveals multi-layered epigenome remodeling during Arabidopsis leaf development
James Walker
Salk Institute for Biological Studies, USA

12:15pm - 12:30pm *15 mins*
From cell atlas to control logic: How are cell-type specific gene regulatory networks linked to physiological traits ?
Arthur Korte
University of Wuerzburg, Germany

Concurrent Session 3
LT50
Plant Beneficial Microbiome
Chair: Jiahui Lin and Sanjay Swarup

11:00am - 11:20am *20 mins*
Sanjay Swarup
National University of Singapore, Singapore

11:20am - 11:40am *20 mins*
Plant immunity reshapes bacterial lifestyles toward host benefit
Kenichi Tsuda
Huazhong Agriculture University, China

11:40am - 12:00pm *20 mins*
An endophytic fungus establishes selective cooperation with beneficial bacteria to promote plant growth under low-nitrogen conditions
Tan Anh Nhi Nguyen
The University of Tokyo, Japan

12:00pm - 12:15pm *15 mins*
The Arabidopsis cytochrome P450 71B12 functions in camalexin detoxification
Erich Glawischnig
TU Munich, Germany

12:15pm - 12:30pm *15 mins*
Soil bacteria accelerate the ontogeny of the plant root immune system
Elhanan Tzipilevich
Tel Hai Academic College, Israel

Concurrent Session 4
LT51
Synthetic Engineering in Plants
Chair: Daisuke Urano

11:00am - 11:20am *20 mins*
Structural mechanism of CCM bicarbonate transport and insights for plant photosynthetic engineering
Peng Zhang
Chinese Academy of Science, China

11:20am - 11:40am *20 mins*
Gefei Hao
Guizhou University, China

11:40am - 12:00pm *20 mins*
C2-centric Dual-cycle Increases Photosynthesis, Oil production, and Plant Growth
Kuan-Jen Lu
Agricultural Biotechnological Research Center, Academia Sinica, China

12:00pm - 12:15pm *15 mins*
Engineered bacterial effector allows for ubiquitin-independent degradation of custom targets
Federico G. Mirkin
John Innes Centre, Argentina

12:15pm - 12:30pm *15 mins*
2-Oxoglutarate-Dependent Dioxygenases Drive the Diversification of Clastokines in Solanaceae
Kohei Shigeta
Kobe University, Japan

12:30pm - 2:00pm

LUNCH BREAK

Auditorium 2 Foyer

2:00pm - 3:30pm

PLENARY 2 - BIOTIC INTERACTIONS

WILEY ADVANCED — SPONSORED AND CHAIRED BY WILEY ADVANCED PORTFOLIO

Auditorium 2

ARGONAUTE10 orchestrates trans-species RNA interference as an immune response
Wenbo Ma
The Sainsbury Laboratory, UK

Mechanisms of plant-microbe symbiosis and applications
Ertao Wang
Shanghai Institute of Plant Physiology and Ecology, CAS, China

Naweed Naqvi
Temasek Life Sciences Laboratory, Singapore

3:30pm - 4:00pm

COFFEE / TEA BREAK

Auditorium 2 Foyer

4:00pm - 5:30pm

CONCURRENT 5-8

Concurrent Session 5
Auditorium 2
Phytohormone
Chair: Claus Schwechheimer

04:00pm - 04:20pm *20 mins*
AGC1 Kinases and The Power of Movement in Plants
Claus Schwechheimer
Technical University of Munich

04:20pm - 04:40pm *20 mins*
TurboID Reveals a broad DELLA Regulatory Network
Tai-ping Sun
Duke University, USA

04:40pm - 05:00pm *20 mins*
Recent Advances in Strigolactone Biosynthesis in Arabidopsis thaliana
Salim Al-Babili
KAUST, Saudi-Arabia

05:00pm - 05:15pm *15 mins*
Elucidating the physiological and molecular function of the biphasic effect of ABA on root system architecture
Nir Sade
Tel Aviv University, Israel

05:15pm - 05:30pm *15 mins*
A Brassicaceae-specific intronic enhancer in the Arabidopsis PIN-FORMED 3 integrates developmental and cold signals to control auxin-mediated stomatal development
Zimin Zhou
National University of Singapore, Singapore

Concurrent Session 6
Auditorium 1
Molecular Condensation in Plant Signalling
Chair: Yansong Miao and Guoyong Xu

04:00pm - 04:20pm *20 mins*
Tissue-Scale Crowding Gradients Controls Biomolecular Condensation with Cell Specificity
Yansong Miao
Nanyang Technological University, Singapore

04:20pm - 04:40pm *20 mins*
From harm to healing: Targeted protein-condensate degradation restores disease tolerance
Guoyong Xu
Wuhan University, China

04:40pm - 05:00pm *20 mins*
Protein quality and dynamics of thermoperception
Panagiotis Moschou
Swedish University of Agricultural Sciences, Sweden

05:00pm - 05:15pm *15 mins*
MAPK-regulated condensates in development and defence pathways
Justin Lee
Leibniz Inst of Plant Biochemistry, Germany

05:15pm - 05:30pm *15 mins*
Phosphorylation of eIF2α by SPA1 Kinase Integrates Light and Heat Stress Signals to Enhance Thermotolerance in Plants
Hui-Fsien Chang
National Taiwan University, Taiwan

Concurrent Session 7
LT50
AI in Plant Science
Chair: Marek Mutwil

04:00pm - 04:20pm *20 mins*
Gene function prediction with knowledge graphs
Marek Mutwil
University of Copenhagen, Denmark

04:20pm - 04:40pm *20 mins*
Kinetic parameter prediction using neural networks identifies limitations to C4 photosynthesis
Zoran Nikoloski
Max-Planck-Institut für Molekulare Pflanzenphysiologie, Germany

04:40pm - 05:00pm *20 mins*
PlantGraph: A Multi-Omic Reasoning Engine for Arabidopsis
Ehsan Estaji
UMEA University, Sweden

05:00pm - 05:15pm *15 mins*
Decoding Phase Separation Evolution in Signaling via AI and System Biology
Qiyu Liang
Nanyang Technological University, Singapore

05:15pm - 05:30pm *15 mins*
Structure-guided discovery of protein functions in plants
Ronghui Pan
Zhejiang University, China

Concurrent Session 8
LT51
Light Signalling and Development
Chair: Enamul Huq

04:00pm - 04:20pm *20 mins*
Role of reversible phosphorylation of transcription factors in light signaling pathways in Arabidopsis
Enamul Huq
The University of Texas at Austin, USA

04:20pm - 04:40pm *20 mins*
The Arabidopsis blue-light photoreceptor CRY2 is turned off and on by blue light to balance competing growth processes
Hongtao Liu
Shenzhen University, China

04:40pm - 05:00pm *20 mins*
Christian Fankhauser
UNIL, Switzerland

05:00pm - 05:15pm *15 mins*
ABA regulates root thermomorphogenesis via a columella-localized DEAR4 module
Sanghwa Lee
Yonsei University, Korea

05:15pm - 05:30pm *15 mins*
The UV-B photoreceptor UVR8 interacts with LOX1 enzyme to promote stomatal closure through the LOX-derived oxylipin pathway
Xi Huang
Xiamen University, China

6:00pm - 8:00pm

POSTER PRESENTATION

Sports Hall 2 (Zone A), Sports Hall 2 (Zone B)

9:00am - 8:00pm

POSTER BROWSING

Sports Hall 2 (Zone A), Sports Hall 2 (Zone B)

9:00am - 10:30am

PLENARY 3 - ABIOTIC INTERACTIONS

Frontiers in Plant Science — A journal by frontiers

SPONSORED BY FRONTIERS IN PLANT SCIENCE

Auditorium 2

Cold Resilience: Translation Insights from Arabidopsis to Maize

Shuhua Yang
China Agricultural University, Beijing, China

Natural temperature profiles recorded through antisense co-transcriptional sensitivity

Caroline Dean
John Innes Centre, UK

Is there "temperature signalling" in plants?

Sureshkumar Balasubramanian
Monash University, Australia

10:30am - 11:00am

COFFEE / TEA BREAK

Auditorium 2 Foyer

11:00am - 12:30pm

CONCURRENT 9-12

Concurrent Session 9 — Auditorium 2

Plant-pathogen Interactions
Chair: Eunyoung Chae

11:00am - 11:20am *20 mins*
Understanding and exploiting plant immune receptor mechanisms
Jonathan Jones
The Sainsbury Laboratory, UK

11:20am - 11:40am *20 mins*
Primary metabolism underpins immune-associated plasmodesmal closure
Christine Faulkner
John Innes Centre, UK

11:40am - 12:00pm *20 mins*
Guard cell-mediated local and systemic immunity
Tiancong Qi
Tsinghua University , China

12:00pm - 12:15pm *15 mins*
Structural basis of activation of signaling by a canonical TIR-NLR and biochemical characterization of TIR domain-containing proteins in plant innate immunity
Natsumi Maruta
University of Queensland, Australia

12:15pm - 12:30pm *15 mins*
Multivalent Oligomerisation of DM3, an Alpha/Beta Hydrolase, Modulates Metabolic and Immune Signalling Pathways
Wei-Lin Wan
National University of Singapore, Singapore

Concurrent Session 10 — Auditorium 1

Plant Technology and Innovation
Sponsored by Molecular Plant / Plant Communications
Molecular Plant | Plant Communications
Chair: Tedrick Lew

11:00am - 11:20am *20 mins*
Peptide-mediated gene delivery system for plant organellar modifications
Keiji Numata
Kyoto University, Japan

11:20am - 11:40am *20 mins*
Intercept Plant Communication by Soft "Wearable" Sensors
Qingshan Wei
North Carolina State University, USA

11:40am - 12:00pm *20 mins*
Advanced Nanotechnology for In Vivo Plant Monitoring and Precision Tissue Culture
Seonyeong Kwak
Seoul National University, Korea

12:00pm - 12:15pm *15 mins*
Precision Plant Genome Editing: Combining DNA Repair insights and Rational Cas9 Engineering
Feng Zhang
University of Minnesota, USA

12:15pm - 12:30pm *15 mins*
Transcriptomic and imaging approaches implicate root redox dynamics as biomarkers of beneficial microbes efficacy for plant stress resilience
Tao-Ho Chang
National Chung Hsing University, Taiwan

Concurrent Session 11 — LT50

Plant Nutrition
Chair: Yi-Fang Tsay

11:00am - 11:20am *20 mins*
Nitrate on the Move: Coordinating Subcellular Allocation and inter-organ Transport at Dusk for Efficient Utilization
Yi-Fang Tsay
Institute of Molecular Biology, Academia Sinica, Taiwan

11:20am - 11:40am *20 mins*
Spatiotemporal analysis of the nitrate response for leaf growth
Rodrigo A Gutiérrez
Pontifical Catholic University of Chile, Chile

11:40am - 12:00pm *20 mins*
Zinc mediates control of nitrogen fixation via transcription factor filamentation
Jieshun Lin
National University of Singapore, Singapore

12:00pm - 12:15pm *15 mins*
Decoding Phosphorus Cues in Plant Developmental Decisions
Hatem Rouached
Michigan State University, USA

12:15pm - 12:30pm *15 mins*
Nanodomain-localized formin gates symbiotic microbial entry in legume and Solanaceous plants
Pengbo Liang
China Agricultural University, China

Concurrent Session 12 — LT51

Cellular Reprogramming and Organ Regeneration
Chairs: Momoko Ikeuchi and Charles Melnyk

11:00am - 11:20am *20 mins*
All roads lead to dome: multicellular dynamics during shoot regeneration
Momoko Ikeuchi
EMBO
EMBO Young Investigator Lecture
NAIST, Japan

11:20am - 11:40am *20 mins*
Understanding fate determination during plant grafting
Charles Melnyk
Swedish University of Agricultural Sciences (SLU), Sweden

11:40am - 12:00pm *20 mins*
How does GSH regulate cell cycle progression in plants?
Laura Lee
The University of North Carolina at Chapel Hill, USA

12:00pm - 12:15pm *15 mins*
WUSCHEL modulates jasmonate signaling to control the balance between growth and defense in the shoot apical meristem
Pengfei Fan
Centre for Organismal Studies Heidelberg, Germany

12:15pm - 12:30pm *15 mins*
Proline transporters balance the salicylic acid-mediated trade-off between regeneration and immunity in plants
Li Yang
University of Georgia, USA

12:30pm - 2:00pm

LUNCH BREAK

Auditorium 2 Foyer

2:00pm - 3:30pm

CONCURRENT 13-16

Concurrent Session 13 — Auditorium 2

Abiotic Stress Biology
Chair: Prakash Kumar

02:00pm - 02:20pm *20 mins*
RNA turnover modulates plant response to warm temperatures
Rodrigo Reis
University of Bern, Switzerland

02:20pm - 02:40pm *20 mins*
Plant cell wall mechanics at the intersection of development and drought resistence
Thorsten Hamann
Norwegian University of Science and Technology, Norway

02:40pm - 03:00pm *20 mins*
MAP4K1 and MAP4K2 regulate ABA-induced and Ca2+-mediated stomatal closure in Arabidopsis
Taishi Umezawa
Tokyo University of Agriculture and Technology, Japan

03:00pm - 03:15pm *15 mins*
Hub Genes Linking Growth and Development & Stress Response: Exploration and Breeding Application from Arabidopsis to Rice
Shiyong Song
Zhejiang University, China

03:15pm - 03:30pm *15 mins*
Dynamic Gene Regulatory Programs Underlying Temporal and Organ-Specific Stress Responses in Arabidopsis
Alessandra Boccaccini
Università Campus Bio-Medico di Roma. Italy

Concurrent Session 14 — Auditorium 1

RNA Biology
Chair: Lisha Shen

02:00pm - 02:20pm *20 mins*
The functional regulation of RNA modification m6A in plant transcription and mRNA metabolism
Guifang Jia
Peking University, China

02:20pm - 02:40pm *20 mins*
Unravelling the Complexity of mRNAs Long-Distance Transport
Friedrich Kragler
Max-Planck-Institut für Molekulare Pflanzenphysiologie, Germany

02:40pm - 03:00pm *20 mins*
Decoding RNA language in plants
Yiliang Ding
John Innes Centre, UK

03:00pm - 03:15pm *15 mins*
The expending roles of RNA modifications in plant-microbe interaction
Chengguo Duan
Sun Yat-Sen University, China

03:15pm - 03:30pm *15 mins*
Multifaceted Roles of RNA-Binding Proteins in Flowering Regulation
Lisha Shen
Temasek Life Sciences Laboratory, Singapore

Concurrent Session 15 — LT50

Bioinformatics Workshop
Chair: Tanya Berardini and Nicholas Provart

02:00pm - 02:20pm *20 mins*
Reactivity-based proteomics in Arabidopsis uncovers ATP-induced proteome remodelling
Brian Mooney
University of Oxford, UK

02:20pm - 02:40pm *20 mins*
Mapping Single-Cell Transcriptomic and Morphogenesis in Arabidopsis Root Development via 3D Spatial Transcriptomics
Che-Wei Hsu
California Institute of Technology, USA

02:40pm - 03:00pm *20 mins*
A hybrid machine learning framework for deciphering temporal regulatory dynamics in plant immunity
Richalynn Leong
Leiden University, Institute of Biology, Netherlands

03:00pm - 03:15pm *15 mins*
Updates to the Bio-Analytic Resource
Nicholas Provart
University of Toronto, Canada

03:15pm - 03:30pm *15 mins*
TAIR in 2026: the TAIR12 reannotation and AI integration
Tanya Berardini
TAIR/Phoenix Bioinformatics, USA

Concurrent Session 16 — LT51

Plant Mechanobiology
Chair: Yuchen Long

02:00pm - 02:20pm *20 mins*
Coordinated biomechanical and hydraulic regulations in plant growth and development
Yuchen Long
National University of Singapore, Singapore

02:20pm - 02:40pm *20 mins*
Cell wall patterning regulates plant stem cell dynamics
Weibing Yang
CEPAMS, China

02:40pm - 03:00pm *20 mins*
How endoreduplication impacts multiscale growth coordination in plants
Mateusz Majda
University of Lausanne, Switzerland

03:00pm - 03:15pm *15 mins*
Beyond damage control: how the cell wall integrity network calibrates growth and stress responses
Laura Bacete
Umeå University, Sweden

03:15pm - 03:30pm *15 mins*
Force-responsive symmetric cell divisions orient stomata along global tissue axes
Andrew Muroyama
UCSD, USA

3:30pm - 4:00pm

COFFEE / TEA BREAK

Auditorium 2 Foyer

4:00pm - 6:00pm

FREE AND EASY

6:00pm - 9:00pm

CONFERENCE DINNER

Flower Dome - Gardens by the Bay

9:00am - 8:00pm

POSTER BROWSING

Sports Hall 2 (Zone A), Sports Hall 2 (Zone B)

9:00am - 10:30am

PLENARY 4 - TRANSLATIONAL RESEARCH

Auditorium 2

From Arabidopsis immunity to disease resistance in crops plants

Jian-Min Zhou

Inst of Genetics and Dev Biology, Chinese Academy of Sciences, China

Phased, secondary siRNAs in plant reproduction

Blake Meyers

University of California, Davis, USA

Agriculture under global climate change: the challenges of stress resilience and nutritional losses

Dominique Van Der Straeten

Ghent University, Belgium

10:30am - 11:00am

COFFEE / TEA BREAK

Auditorium 2 Foyer

11:00am - 12:30pm

CONCURRENT 17-20

Concurrent Session 17

Auditorium 2

Vegetative Development

Sponsored by Development

Chair: Adrienne Roeder

11:00am - 11:20am
20 mins
How to grow a flat leaf and leaf giant cells in Arabidopsis
Adrienne Roeder
Cornell University, USA

11:20am - 11:40am
20 mins
Trinh Duy Chi
University of Science and Technology of Hanoi (USTH), Vietnam

11:40am - 12:00pm
20 mins
Cell fate determination and tissue organization in leaf development
Kimmy Ho

EMBO

EMBO Global Investigator Lecture
IPMB, Taiwan

12:00pm - 12:15pm
15 mins
The outermost layer of callus facilitates pluripotency acquisition through VLCFA-mediated inter-layer communication
Yuki Doll
Nara Institute of Science and Technology, Japan

12:15pm - 12:30pm
15 mins
From Bulge to Branch: The Making Of A Trichome
Constance Le Gloanec
National University of Singapore, Singapore

Concurrent Session 18

Auditorium 1

Epigenetics

Chair: Danhua Jiang

11:00am - 11:20am
20 mins
Tiny Transposons, Big Effects: How MITEs Organize Chromatin to Shape Gene Expression
Pablo Manavella
Institute for Mediterranean and Subtropical Horticulture (IHSM) in Malaga, Spain

11:20am - 11:40am
20 mins
Frederic Berger
Austrian Academy of Sciences, Austria

11:40am - 12:00pm
20 mins
RNA G-quadruplex senses sodium and drives ALBA-mediated salt tolerance in Arabidopsis
Jingqiu Lan
Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, China

12:00pm - 12:15pm
15 mins
TOP1st stabilizes CYP82C4 G4 DNA to repress lateral root initiation in Arabidopsis
Chunli Chen
Huazhong Agricultural University, China

12:15pm - 12:30pm
15 mins
Aphid Small RNAs Exploit Host RNA Silencing Pathways to Promote Insect Performance
Junlin Chen
Swedish University of Agricultural Sciences, Sweden

Concurrent Session 19

LT50

Plasmodesmata: Gating mechanisms and developmental Control

Chair: Leor Williams

11:00am - 11:20am
20 mins
Untangling plant cell walls and building bridges for communication
Yoselin Benitez-Alfonso
University of Leeds, UK

11:20am - 11:40am
20 mins
An emerging tobamovirus reveals a crossroad between viral movement and plant immunity
Ziv Spiegelman
Volcani Institute, ARO, Israel

11:40am - 12:00pm
20 mins
New "in sights" into plasmodesmal gating during virus infection
Tessa M Burch-Smith
Donald Danforth Plant Science Center, USA

12:00pm - 12:15pm
15 mins
From cell layers to the phloem: routes of mobile mRNA trafficking
Tien-Shin Yu
Institute of Plant and Microbial Biology, Taiwan

12:15pm - 12:30pm
15 mins
Mobile AT-Hook Proteins Interface with Auxin Signaling in the Root Apical Meristem
Ji-Young Lee
Seoul National University, Korea

Concurrent Session 20

LT51

Evolution and Genomics

Chair: Magnus Nordborg

11:00am - 11:20am
20 mins
Magnus Nordborg
Austrian Academy of Sciences, Austria

11:20am - 11:40am
20 mins
Standing variation as an important factor in the domestication and range expansion of adzuki bean (Vigna angularis)
Cheng-Ruei Lee
National Taiwan University, Taiwan

11:40am - 12:00pm
20 mins
Extensive Post-Polyploid Genome Evolution in Maize and Its Wild Relatives
Matthew B Hufford
Iowa State University, USA

12:00pm - 12:15pm
15 mins
A high-latitude Scandinavian Arabis alpina accession carries a weak TFL1 allele that promotes floral induction without affecting inflorescence architecture
Yoonkeum Oh
Max Planck Institute for Plant Breeding Research, Germany

12:15pm - 12:30pm
15 mins
Divergent paralog regulation underlies temporal cold responses in Brassica rapa
Kathleen Greenham
University of Minnesota, USA

12:30pm - 2:00pm

LUNCH BREAK

Auditorium 2 Foyer

2:00pm - 3:30pm

PLENARY 5 - TECHNOLOGY & TOOLS

Auditorium 2

A unified mechanism of NLR-mediated immune signaling in plants -from resistosomes to second messengers

Jijie Chai

Westlake University, China

Dissecting plant-microbe interactions at the single-cell and spatial resolution

Tatsuya Nobori

The Sainsbury Laboratory, UK

Cellular decision making in plant environmental responses

Alexander Jones

Sainsbury Lab, Cambridge, UK

3:30pm - 4:00pm

COFFEE / TEA BREAK

Auditorium 2 Foyer

4:00pm - 5:30pm

CONCURRENT 21-24

Concurrent Session 21

Auditorium 2

Plant Reproductive Development

Chair: Toshiro Ito

04:00pm - 04:20pm
20 mins
Imprinted Antagonism of Polycomb in Reproductive Development
Toshiro Ito
NAIST, Japan

04:20pm - 04:40pm
20 mins
Embryonic resetting of epigenetic 'memory of winter cold' in plants
Yuehui He
Peking University, China

04:40pm - 05:00pm
20 mins
Calcium binding by arabinogalactan-proteins is required for pollen development and pollen tube growth in Arabidopsis
Silvia Coimbra
University of Porto, Portugal

05:00pm - 05:15pm
15 mins
Novel actin isovariant controls nuclear dynamics during coenocytic endosperm development and contributes to seed size determination in Arabidopsis thaliana
Tomokazu Kawashima
University of Kentucky, USA

05:15pm - 05:30pm
15 mins
Dissecting the molecular mechanisms underlying AGL62 function during endosperm development in Arabidopsis
Dongfang Wang
Spelman College, USA

Concurrent Session 22

Auditorium 1

From Arabidopsis to Crops

Chair: Naveed Naqvi

04:00pm - 04:20pm
20 mins
Decoding Accession-Specific Transcriptomic Responses to Compound Heat-Drought Stress in Brassica rapa
Eunyoung Chae
University of Oxford, UK

04:20pm - 04:40pm
20 mins
Trans-kingdom RNAi and Interspecies RNAs-from basic research to application
Huishan Guo
University of Chinese Academy of Sciences, China

04:40pm - 05:00pm
20 mins
Combined Inbreeding And Outcrossing: Proof-of-concept in Arabidopsis for F1 hybrid breeding in self-incompatible species
Lynette Brownfield
University of Otago, New Zealand

05:00pm - 05:15pm
15 mins
Multi-omics Identification of Key Flowering Genes for Accelerating the Life Cycle of Semi-winter Brassica napus
Yang Zhu
Zhejiang University, China

05:15pm - 05:30pm
15 mins
Metabolic programming of growth heterosis: the FZR-folate axis drives leaf expansion in Brassica rapa hybrids
Cheng-yen Chen
Temasek Life Sciences Laboratory, Singapore

Concurrent Session 23

LT50

Plant Lipid Metabolism and Signalling

Chair: Wei Ma

04:00pm - 04:20pm
20 mins
ICAR abstract_ Plant Lipids Chapman final
Kent Chapman
University of North Texas, USA

04:20pm - 04:40pm
20 mins
Phospholipid metabolism-mediated phosphate use efficiency in plant
Liang Guo
Yazhouwan National Laboratory, China

04:40pm - 05:00pm
20 mins
Membrane lipid oscillation in plant growth and development
Yuki Nakamura
RIKEN Centre for sustainable Resource Science, Japan

05:00pm - 05:15pm
15 mins
Redirecting Cytosolic PEP into Plastids via PPT1 Boosts Fatty Acid Accumulation in Sugar-Rich Tissues
Li-Qing Chen
University of Illinois at Urbana-Champaign, USA

05:15pm - 05:30pm
15 mins
A role for lipid droplets in the apical root meristem during the phosphate depletion response
Cédric Schindfessel
Ghent University, Belgium

Concurrent Session 24

LT51

Stomatal Development

Sponsored by New Phytologist Foundation.

New Phytologist Foundation

Chair: Andrew Muroyama

04:00pm - 04:20pm
20 mins
Guard cell form and function: a combined experimental and modelling approach
Andrew Fleming
University of Sheffield, UK

04:20pm - 04:40pm
20 mins
Juan Dong
Texas A&M University, USA

04:40pm - 05:00pm
20 mins
Margot Smit
University of Tübingen, Germany

05:00pm - 05:15pm
15 mins
Stomatal lineage cells regulate substomatal cavity formation through inter-tissue signaling during leaf development
Chynthia Hartono
IPMB-Academia Sinica, Taiwan

05:15pm - 05:30pm
15 mins
Evidence for a DREAM-like regulatory complex involving PLP in stomatal development
Masaki Ito
Kanazawa University, Japan

6:00pm - 8:00pm

POSTER PRESENTATION

Sports Hall 2 (Zone A), Sports Hall 2 (Zone B)

9:00am - 10:30am

PLENARY 6 - SIGNAL TRANSDUCTION

Auditorium 2

The roles of parental of origin genes in fertilization and embryogenesis

Meng-xiang Sun

University of Wuhan, China

Vasculature as an Information Hub: JULGI-Mediated Post-transcriptional Regulation Coordinates Growth and Patterning

Ildoo Hwang

Pohang University of Science and Technology, Korea

Stuck in Place, Ready for Anything: Deciphering the SUMO Code for Climate Resilient Plants

Ari Sadanandom

Durham University, UK

10:30am - 11:00am

COFFEE / TEA BREAK

Auditorium 2 Foyer

11:00am - 1:00pm

KEYNOTE 3

Root barrier formation: Walking the line between protection and exchange

Auditorium 2

Niko Geldner

University of Lausanne, Switzerland

KEYNOTE 4

Precision Genome Engineering: From Molecular Mechanisms to Programmable Crop Design

Auditorium 2

Caixia Gao

Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, China

CLOSING REMARKS

Auditorium 2

12:00pm

POSTER REMOVAL

Sports Hall 2 (Zone A), Sports Hall 2 (Zone B)