

DAY 1
22 Jun 2026 (Mon)

DAY 2
23 Jun 2026 (Tues)

DAY 3
24 Jun 2026 (Wed)

DAY 4
25 Jun 2026 (Thurs)

DAY 5
26 Jun 2026 (Fri)



2:00pm - 4:00pm
REGISTRATION
📍 Auditorium 2 Foyer



2:00pm - 4:00pm
POSTER BROWSING
📍 Sports Hall 2 (Zone A), Sports Hall 1 (Zone B)



4:00pm - 6:00pm
OPENING KEYNOTE 1
Chair: Prakash Kumar
Opening Remarks: Hao Yu
Conference Info and Announcements: On Sun Lau
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



9:00am - 8:00pm

POSTER BROWSING

📍 Sports Hall 2 (Zone A), Sports Hall 1 (Zone B)

9:00am - 10:30am

PLENARY 1 - PLANT DEVELOPMENT

Chair: On Sun Lau

📍 Auditorium 2

Zooming into the Mechanism of Pollen Tube Guidance

Tetsuya Higashiyama

University of Tokyo, Japan

Centering stomatal biology

Dominique Bergmann

Stanford University, USA

Perennial Growth Habit: From Model Species to Crops

Jiawei Wang

CAS, China



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	Concurrent Session 2 📍 Auditorium 1 Single-cell and Spatial Biology Chair: Jiawei Wang	Concurrent Session 3 📍 LT50 Plant Beneficial Microbiome Chair: Jieshun Lin and Sanjay Swarup	Concurrent Session 4 📍 LT51 Synthetic Engineering in Plants Chair: Daisuke Urano
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	11:00am - 11:20am 20 mins ID-seq: Rapid Perturbations of Cell Identity and Single Cell RNA-seq Kenneth Birnbaum New York University, USA	11:00am - 11:20am 20 mins From Signals to Consortia: Decoding Trans-Kingdom Communication to Engineer the Plant Microbiome for Sustainable Agriculture Sanjay Swarup National University of Singapore, Singapore	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 Cellulose Synthase Complexes and Remorins Mediate Stress Resilience Through Cell Wall-Plasma Membrane Attachments Yue Rui Stanford University, USA	11:20am - 11:40am 20 mins High-resolution Spatiotemporal Multi-omics in Arabidopsis and Beyond Xun Xu BGI, China	11:20am - 11:40am 20 mins Plant immunity reshapes bacterial lifestyles toward host benefit Kenichi Tsuda Huazhong Agriculture University, China	11:20am - 11:40am 20 mins Agrocheminformatics and plant growth regulator discovery Gefei Hao Guizhou University, China
11:40am - 12:00pm 20 mins Interplay between Membrane Dynamics and Plant Selective Autophagy Xiaohong Zhuang CUHK, Hong Kong	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	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	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 Paracrine auxin signaling coordinates adjacent cell-division orientation in plants Yi Zhang Fujian Agriculture and Forestry University, China	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	12:00pm - 12:15pm 15 mins The Arabidopsis cytochrome P450 71B12 functions in camalexin detoxification Erich Glawischnig TU Munich, Germany	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 Reoderms: A de novo epidermal barrier for wound repair in mature leaves Yuree Lee Seoul National University, Korea	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	12:15pm - 12:30pm 15 mins Soil bacteria accelerate the ontogeny of the plant root immune system Elhanan Tzipilevich Tel Hai Academic College, Israel	12:15pm - 12:30pm 15 mins 2-Oxoglutarate-Dependent Dioxygenases Drive the Diversification of Calystegines 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

Chair: Lei Lei

Auditorium 2



ARGONAUTE10 orchestrates trans-species RNA interference as an immune response

Wenbo Ma

The Sainsbury Laboratory, UK

Primary metabolism underpins immune-associated plasmodesmal closure

Christine Faulkner

John Innes Centre, UK

The lipid landscape of biotic interactions in plants

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	Concurrent Session 6 Auditorium 1 Molecular Condensation in Plant Signalling Chair: Yansong Miao and Guoyong Xu	Concurrent Session 7 LT50 AI in Plant Science Chair: Marek Mutwil	Concurrent Session 8 LT51 Light Signalling and Development Chair: Enamul Huq
04:00pm - 04:20pm 20 mins AGCI Kinases and The Power of Movement in Plants Claus Schwechheimer Technical University of Munich	04:00pm - 04:20pm 20 mins Tissue-Scale Crowding Gradients Controls Biomolecular Condensation with Cell Specificity Yansong Miao Nanyang Technological University, Singapore	04:00pm - 04:20pm 20 mins Gene function prediction with knowledge graphs Marek Mutwil University of Copenhagen, Denmark	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 TurboID Reveals a broad DELLA Regulatory Network Tai-ping Sun Duke University, USA	04:20pm - 04:40pm 20 mins From harm to healing: Targeted protein- condensate degradation restores disease tolerance Guoyong Xu Wuhan University, China	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	04:20pm - 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 Recent Advances in Strigolactone Biosynthesis in Arabidopsis thaliana Salim Al-Babli KAUST, Saudi-Arabia	04:40pm - 05:00pm 20 mins Protein quality and dynamics of thermoperception Panagiotis Moschou Swedish University of Agricultural Sciences, Sweden	04:40pm - 05:00pm 20 mins PlantGraph: A Multi- Omic Reasoning Engine for Arabidopsis Ehsan Estaji UMEA University, Sweden	04:40pm - 05:00pm 20 mins Christian Fankhauser UNIL, Switzerland
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	05:00pm - 05:15pm 15 mins MAPK-regulated condensates in development and defence pathways Justin Lee Leibniz Inst of Plant Biochemistry, Germany	05:00pm - 05:15pm 15 mins Decoding Phase Separation Evolution in Signaling via AI and System Biology Qiyu Liang Nanyang Technological University, Singapore	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 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	05:15pm - 05:30pm 15 mins Phosphorylation of eIF2 α by SPA1 Kinase Integrates Light and Heat Stress Signals to Enhance Thermotolerance in Plants Hui-Hsien Chang National Taiwan University, Taiwan	05:15pm - 05:30pm 15 mins Structure-guided discovery of protein functions in plants Ronghui Pan Zhejiang University, China	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 1 (Zone B)



9:00am - 8:00pm
POSTER BROWSING
Sports Hall 2 (Zone A), Sports Hall 1 (Zone B)



9:00am - 10:30am
PLENARY 3 - ABIOTIC INTERACTIONS
Frontiers in **Plant Science** SPONSORED BY FRONTIERS IN PLANT SCIENCE
A journal by frontiers

Chair: Lisha Shen
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	Concurrent Session 10 Auditorium 1 Plant Technology and Innovation Sponsored by Molecular Plant & Plant Communications Chair: Tedrick Lew	Concurrent Session 11 LT50 Plant Nutrition Chair: Yi-Fang Tsay	Concurrent Session 12 LT51 Cellular Reprogramming and Organ Regeneration Chair: Momoko Ikeuchi and Charles Melynk
11:00am - 11:20am 20 mins Understanding and exploiting plant immune receptor mechanisms Jonathan Jones The Sainsbury Laboratory, UK	11:00am - 11:20am 20 mins Peptide-mediated gene delivery system for plant organellar modifications Keiji Numata Kyoto University, Japan	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	11:00am - 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 Membrane Molecular Nanoclustering Orchestrates Plant Cell Surface Signaling Dynamics Ma Zhiming Yazhouwan National Laboratory	11:20am - 11:40am 20 mins Intercept Plant Communication by Soft "Wearable" Sensors Qingshan Wei North Carolina State University, USA	11:20am - 11:40am 20 mins Spatiotemporal analysis of the nitrate response for leaf growth Rodrigo A Gutiérrez Pontifical Catholic University of Chile, Chile	11:20am - 11:40am 20 mins Understanding fate determination during plant grafting Charles Melynk Swedish University of Agricultural Sciences (SLU), Sweden
11:40am - 12:00pm 20 mins Guard cell-mediated local and systemic immunity Tiancong Qi Tsinghua University, China	11:40am - 12:00pm 20 mins Advanced Nanotechnology for In Vivo Plant Monitoring and Precision Tissue Culture Seonyoung Kwak Seoul National University, Korea	11:40am - 12:00pm 20 mins Zinc mediates control of nitrogen fixation via transcription factor filamentation Jieshun Lin National University of Singapore, Singapore	11:40am - 12:00pm 20 mins How does GSH1 regulate cell cycle progression in plants? Laura Lee The University of North Carolina at Chapel Hill, USA
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	12:00pm - 12:15pm 15 mins Precision Plant Genome Editing: Combining DNA Repair insights and Rational Cas9 Engineering Feng Zhang University of Minnesota, USA	12:00pm - 12:15pm 15 mins Decoding Phosphorus Cues in Plant Developmental Decisions Hatem Rouached Michigan State University, 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 Multivalent Oligomerisation of DM3, an Alpha/Beta Hydrolase, Modulates Metabolic and Immune Signalling Pathways Wei-Lin Wan National University of Singapore, Singapore	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	12:15pm - 12:30pm 15 mins Nanodomain-localized formin gates symbiotic microbial entry in legume and Solanaceous plants Pengbo Liang China Agricultural University, China	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	Concurrent Session 14 📍 Auditorium 1 RNA Biology Chair: Lisha Shen	Concurrent Session 15 📍 LT50 Bioinformatics Workshop Chair: Tanya Berardini and Nicholas Provart	Concurrent Session 16 📍 LT51 Plant Mechanobiology Chair: Yuchen Long
02:00pm - 02:20pm 20 mins RNA turnover modulates plant response to warm temperatures Rodrigo Reis University of Bern, Switzerland	02:00pm - 02:20pm 20 mins The functional regulation of RNA modification m6A in plant transcription and mRNA metabolism Guifang Jia Peking University, China	02:00pm - 02:20pm 20 mins Reactivity-based proteomics in Arabidopsis uncovers ATP-induced proteome remodelling Brian Mooney University of Oxford, UK	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 Plant cell wall mechanics at the intersection of development and drought resistance Thorsten Hamann Norwegian University of Science and Technology, Norway	02:20pm - 02:40pm 20 mins Unravelling the Complexity of mRNAs Long-Distance Transport Friedrich Kragler Max-Planck-Institut für Molekulare Pflanzenphysiologie, Germany	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	02:20pm - 02:40pm 20 mins Cell wall patterning regulates plant stem cell dynamics Weibing Yang CEPAMS, China
02:40pm - 03:00pm 20 mins MAP4K1 and MAP4K2 regulate ABA-induced and Ca ²⁺ -mediated stomatal closure in Arabidopsis Taishi Umezawa Tokyo University of Agriculture and Technology, Japan	02:40pm - 03:00pm 20 mins Decoding RNA language in plants Yiliang Ding John Innes Centre, UK	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	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 Hub Genes Linking Growth and Development & Stress Response: Exploration and Breeding Application from Arabidopsis to Rice Shiyong Song Zhejiang University, China	03:00pm - 03:15pm 15 mins The expanding roles of RNA modifications in plant-microbe interaction Chengguo Duan Sun Yat-Sen University, China	03:00pm - 03:15pm 15 mins Updates to the Bio-Analytic Resource Nicholas Provart University of Toronto, Canada	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 Dynamic Gene Regulatory Programs Underlying Temporal and Organ-Specific Stress Responses in Arabidopsis Alessandra Boccaccini Università Campus Bio-Medico di Roma, Italy	03:15pm - 03:30pm 15 mins Multifaceted Roles of RNA-Binding Proteins in Flowering Regulation Lisha Shen Temasek Life Sciences Laboratory, Singapore	03:15pm - 03:30pm 15 mins TAIR in 2026: the TAIR12 reannotation and AI integration Tanya Berardini TAIR/Phoenix Bioinformatics, USA	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 1 (Zone B)



9:00am - 10:30am
PLENARY 4 - TRANSLATIONAL RESEARCH
Chair: Naweed Naqvi
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 Development Chair: Adrienne Roeder	Concurrent Session 18 Auditorium 1 Epigenetics Chair: Danhua Jiang	Concurrent Session 19 IT50 Plasmodesmata: Gating mechanisms and developmental Control Chair: Leor Williams	Concurrent Session 20 IT51 Evolution and Genomics Chair: Magnus Nordborg
11:00am - 11:20am 20 mins How to grow a flat leaf and leaf giant cells in Arabidopsis Adrienne Roeder Cornell University, USA	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 Mdlaga, Spain	11:00am - 11:20am 20 mins Untangling plant cell walls and building bridges for communication Yoselin Benitez-Alfonso University of Leeds, UK	11:00am - 11:20am 20 mins Towards an unbiased characterization of genetic polymorphism Magnus Nordborg Austrian Academy of Sciences, Austria
11:20am - 11:40am 20 mins New insight into BRI1 regulation and BRI1-mediated signaling Gregory Vert Toulouse, France	11:20am - 11:40am 20 mins Epigenetic control of transposons by chromatin Frederic Berger Austrian Academy of Sciences, Austria	11:20am - 11:40am 20 mins An emerging tobamovirus reveals a crossroad between viral movement and plant immunity Ziv Spiegelman Volcani Institute, ARO, Israel	11:20am - 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 Cell fate determination and tissue organization in leaf development Kimmy Ho EMBO EMBO Global Investigator Lecture IPMB, Taiwan	11:40am - 12:00pm 20 mins RNA G-quadruplex senses sodium and drives ALBA-mediated salt tolerance in Arabidopsis Jingju Lan Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, China	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	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 The outermost layer of callus facilitates pluripotency acquisition through VLCFA-mediated inter-layer communication Yuki Doll Nara Institute of Science and Technology, Japan	12:00pm - 12:15pm 15 mins TOP1α stabilizes CYP82C4 G4 DNA to repress lateral root initiation in Arabidopsis Chunli Chen Huazhong Agricultural University, China	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	12:00pm - 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 From Bulge to Branch: The Making Of A Trichome Constance Le Gloanec National University of Singapore, Singapore	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	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	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

Chair: **Daisuke Urano**
 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	Concurrent Session 22 Auditorium 1	Concurrent Session 23 LT50	Concurrent Session 24 LT51
Plant Reproductive Development Chair: Toshiro Ito	From Arabidopsis to Crops Chair: Naweed Naqvi	Plant Lipid Metabolism and Signalling Chair: Wei Ma	Stomatal Development Sponsored by New Phytologist Foundation  Chair: Andrew Muroyama
04:00pm - 04:20pm 20 mins Inprinted Antagonism of Polycomb in Reproductive Development Toshiro Ito <i>NAIST, Japan</i>	04:00pm - 04:20pm 20 mins Decoding Accession-Specific Transcriptomic Responses to Compound Heat-Drought Stress in Brassica rapa Funyoung Chae <i>University of Oxford, UK</i>	04:00pm - 04:20pm 20 mins Dynammin-related protein 1A interacts with Seipin1 and LDDP to modulate lipid droplet biogenesis Kent Chapman <i>University of North Texas, USA</i>	04:00pm - 04:20pm 20 mins Guard cell form and function: a combined experimental and modelling approach Andrew Fleming <i>University of Sheffield, UK</i>
04:20pm - 04:40pm 20 mins Embryonic resetting of epigenetic 'memory of winter cold' in plants Yuehui He <i>Peking University, China</i>	04:20pm - 04:40pm 20 mins Trans-kingdom RNAi and Interspecies RNAi-from basic research to application Huishan Guo <i>University of Chinese Academy of Sciences, China</i>	04:20pm - 04:40pm 20 mins Phospholipid metabolism-mediated phosphate use efficiency in plant Liang Guo <i>Yazhouwan National Laboratory, China</i>	04:20pm - 04:40pm 20 mins BPC factors couple chromatin dynamics to stomatal development Juan Dong <i>Texas A&M University, USA</i>
04:40pm - 05:00pm 20 mins Calcium binding by arabinogalactan-proteins is required for pollen development and pollen tube growth in Arabidopsis Silvia Coimbra <i>University of Porto, Portugal</i>	04:40pm - 05:00pm 20 mins Metabolic programming of growth heterosis: the tZR-folate axis drives leaf expansion in Brassica rapa hybrids Cheng-yen Chen <i>Temasek Life Sciences Laboratory, Singapore</i>	04:40pm - 05:00pm 20 mins Membrane lipid oscillation in plant growth and development Yuki Nakamura <i>RIKEN Centre for Sustainable Resource Science, Japan</i>	04:40pm - 05:00pm 20 mins Premature and partial maturation of stomatal cells during embryogenesis Margot Smit <i>University of Tübingen, Germany</i>
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 <i>University of Kentucky, USA</i>	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 <i>Zhejiang University, China</i>	05:00pm - 05:15pm 15 mins Redirecting Cytosolic PEP into Plastids via PPT1 Boosts Fatty Acid Accumulation in Sugar-Rich Tissues Li-Qing Chen <i>University of Illinois at Urbana-Champaign, USA</i>	05:00pm - 05:15pm 15 mins Stomatal lineage cells regulate substomatal cavity formation through inter-tissue signaling during leaf development Chynthia Hartono <i>IPMB-Academia Sinica, Taiwan</i>
05:15pm - 05:30pm 15 mins Dissecting the molecular mechanisms underlying AGL62 function during endosperm development in Arabidopsis Dongfang Wang <i>Spelman College, USA</i>	05:15pm - 05:30pm 15 mins Towards Understanding Starch Granule Crystallization: A Tale of Two Beta-Sheets Vinaya Röhr <i>ETH Zurich, Switzerland</i>	05:15pm - 05:30pm 15 mins A role for lipid droplets in the apical root meristem during the phosphate depletion response Cédric Schindfessel <i>Ghent University, Belgium</i>	05:15pm - 05:30pm 15 mins Evidence for a DREAM-like regulatory complex involving FLP in stomatal development Masaki Ito <i>Kanazawa University, Japan</i>



6:00pm - 8:00pm

POSTER PRESENTATION

Sports Hall 2 (Zone A), Sports Hall 1 (Zone B)

DAY 1
22 Jun 2026 (Mon)

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26 Jun 2026 (Fri)

9:00am - 10:30am

PLENARY 6 - SIGNAL TRANSDUCTION

Chair: Yuchen Long

📍 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

Chair: Miao Yansong

📍 Auditorium 2



12:00pm

POSTER REMOVAL

📍 Sports Hall 2 (Zone A), Sports Hall 1 (Zone B)