

## ICAR 2018 Preliminary programme (detailed)

### Monday June 25

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12:00 Registration starts

14:00-15:30 Workshops

**Introducing INDEPTH: Impact of nuclear domains on gene expression and plant traits**

Organizer: Geraint Parry

**Reach-out with the Arabidopsis movie and symphonic score**

Organizer: Sander van der Krol

**Chemical regulation in plant stress Tolerance**

Organizers: Ryuong Shin, Khurram Bashir

16:00

**Welcome**

Conference chair **Michael Wrzaczek** and co-chair **Jaakko Kangasjärvi**

**Laura Raaska**, PhD, Academy of Finland

16:30-17:30

16:30 Keynote lecture **Alison Smith** (John Innes Centre Norwich, UK)

Chair: Jaakko Kangasjärvi

17:30-18:30

17:30 Keynote lecture **Dominique Bergmann** (Stanford University, USA)

Chair: Ykä Helariutta

19:00

Welcome reception

## Tuesday June 26

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### 09:00-10:30 Plenary Session I: Growth and Development 1: Shoot

Session chairs: Doris Wagner, John Bowman

- 09:00-09:25 **Michael Lenhard** (Potsdam University, Germany)  
09:25-09:50 **Doris Wagner** (University of Pennsylvania, USA)  
09:50-10:15 **John Bowman** (Monash University, Australia)  
10:15-10:30 **Tom Bennett** (University of Leeds, UK)  
[443] Gene regulatory network of epidermal and sub-epidermal cell population enriched transcription factors revealed regulatory hierarchies underlying cell proliferation and differentiation

10:30-11:00 Coffee break

### 11:00-12:30 Plenary Session II: Environmental Interactions I: Abiotic

Session chairs: Jim Whelan, Jian-Kang Zhu

- 11:00-11:25 **Jim Whelan** (LaTrobe University, Australia)  
11:25-11:50 **Caroline Dean** (John Innes Centre Norwich, UK)  
11:50-12:15 **Jian-Kang Zhu** (Shanghai Centre for Plant Stress Biology, China)  
12:15-12:30 **Takashi Hirayama** (Okayama University, Japan)  
[57] A novel short peptide regulates the iron-deficiency response genes in *Arabidopsis*

12:30-14:00 Lunch and poster viewing

14:00-16:00 Concurrent sessions

#### Organelle Biology

Chairs: Toshiharu Shikanai, Julian Hibberd

- 14:00-14:20 **Toshiharu Shikanai** (Kyoto University, Japan)  
14:20-14:40 **Julian Hibberd** (Cambridge University, UK)  
14:40-14:55 **Bernhard Grimm** (Humboldt University Berlin, Germany)  
[623] Multiple posttranslational mechanisms of glutamyl-tRNA reductase to control 5-aminolevulinic acid synthesis for the appropriate supply of chlorophyll  
14:55-15:10 **Chun Pong Lee** (University of Western Australia, Australia)  
[228] DIC2 is mitochondrial malate carrier that regulates cellular 2-oxoglutarate homeostasis  
15:10-15:25 **Tom Theeuwien** (Wageningen University, Netherlands)  
[696] A new approach to study cyto-nuclear interactions in *Arabidopsis thaliana*  
15:25-15:40 **Magda Grabsztunowicz** (University of Turku, Finland)  
[562] Novel chloroplast acetyltransferase nsi is involved in state transition in *Arabidopsis thaliana*  
15:40-15:45 **Peter Gollan** (University of Turku, Finland)  
[593] Understanding the effects of photosystem I photoinhibition on photosynthesis, metabolism and signalling  
15:45-15:50 **Boon Leong Lim** (University of Hongkong, Hong Kong)  
[293] Mature Chloroplasts of *Arabidopsis thaliana* do not import ATP efficiently  
15:50-15:55 **Moona Rahikainen** (University of Turku, Finland)  
[618] Abundance of *Arabidopsis* Aconitase 3 is modulated by phosphorylation of serine 91 and connected to accumulation of alternative oxidase in mitochondria  
15:55-16:00 **Alexey Shapiguzov** (University of Helsinki, Finland)  
[635] Nuclear protein RCD1 on the crossroads of mitochondrial and chloroplastic signalling pathways

## Biotic Interactions

Chairs: Clara Sanchez-Rodriguez, Kirk Overmyer

- 14:00-14:20 **Clara Sanchez-Rodriguez** (ETH Zurich, Switzerland)
- 14:20-14:40 **Suayib Üstün** (Swedish University of Agricultural Sciences SLU, Sweden)  
[321] Autophagy: Both friend and foe in *Pseudomonas* infection
- 14:40-14:55 **Rosa Lozano-Duran** (Shanghai Center for Plant Stress Biology, Chinese Academy of Sciences, China)  
[624] Pathogen effectors as probes for plant functions: a multifunctional viral protein sheds light on the cell-to-cell spread of RNAi and chloroplast-mediated defences
- 14:55-15:10 **Stefanie Ranf** (Technical University of Munich, Germany)  
[423] LORE-mediated immune sensing of bacterial lipopolysaccharide
- 15:10-15:25 **Simon Stael** (VIB Ghent, University of Ghent, Belgium)  
[377] Damage activates calcium-dependent metacaspases for release of plant immunomodulatory peptides
- 15:25-15:40 **Thorsten Hamann** (NTNU, Norway)  
[436] Plant cell wall integrity maintenance and immune signalling cooperate to control defence responses in *Arabidopsis thaliana*
- 15:40-15:45 **Maria Derkacheva** (The Sainsbury Laboratory, UK)  
[663] Dynamic interplay between phosphorylation and ubiquitination during plant receptor kinase-mediated immunity
- 15:45-15:50 Ido Vlaardingerbroek (University of Copenhagen, Denmark) **To be confirmed**  
[258] Plants produce distinct populations of exosomes
- 15:50-15:55 **Daniel Lüdke** (Georg-August-University Goettingen, Germany)  
[313] The truncated nlr protein TN13 interacts with importin- $\alpha$ 3 and is required for disease resistance in *Arabidopsis*
- 15:55-16:00 **Sachie Kimura** (University of Helsinki, Finland)  
[685] functional analysis of *Arabidopsis thaliana* Cysteine-rich receptor-like kinase CRK2

## Systems Biology

Chairs: Siobhan Brady, Andrew Millar

- 14:00-14:20 **Siobhan Brady** (University of California Davis, USA)
- 14:20-14:40 **Andrew Millar** (University of Edinburgh, UK)
- 14:40-15:00 **Wolf Frommer** (Heinrich-Heine University, Germany)
- 15:00-15:15 **Ammarah Anwar** (Universitz of Wuerzburg, Germany)  
[604] Natural variation of gene regulatory networks in *Arabidopsis thaliana*
- 15:15-15:30 **Melina Altmann** (Helmholtz Centre Munich, Germany)  
[52] Extensive crosstalk between phytohormone signaling pathways revealed by a systematic network map
- 15:30-15:45 **Kristiina Himanen** (University of Helsinki, Finland)  
[430] Phenomic screens for ubiquitin signaling upon perturbations
- 15:45-15:50 **Anna Klepikova** (The Institute for Information Transmission Problems, Russia)  
[477] The detailed analysis of meristem and leaf transcriptome of *Arabidopsis thaliana* during transition to flowering
- 15:50-15:55 **Maja Ilievska** (University of Helsinki, Finland)  
[671] Data integration for inference of gene regulatory networks
- 15:55-16:00 **Stijn Dhondt** (VIB Ghent, Ghent University, Belgium)  
[512] Taking the next hurdle: management of *Arabidopsis* phenotypic data with PIPPA
- 16:00-16:30 Coffee break

16:30-18:00 Workshops

**Stress and CO<sub>2</sub> perception and signaling in guard cells**

Organizers: Maija Sierla, Hannes Kollist

**Microscopy methods for multiscale functional imaging in Arabidopsis**

Organizers: Alexis Maizel, Yvonne Stahl

**Construction of Gene Regulatory Networks in Arabidopsis**

Organizer: Wen-Hsiung Li

**Beyond Arabidopsis: advantages and challenges of emerging plant models**

Organizers: Kaisa Kajala, Michael T. Raissig

**Energy organelle functions and signalling**

Organizers: Olivier van Aken, Alexey Shapiguzov

**Publishing for Posterity: How to make your published data Findable, Accessible, Interoperable and Reusable**

Organizer: Leonore Raiser

18:00-18:30 Coffee break

18:30-21:00 Poster session I with refreshments

## Wednesday June 27

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### 09:00-10:30 Plenary Session III: Growth and Development 2: Root

Session chairs: Sabrina Sabatini, Tom Beeckmann

- 09:00-09:25 **Tom Beeckmann** (VIB Ghent, Belgium)  
09:25-09:50 **Ken Birnbaum** (New York University, USA)  
09:50-10:15 **Sabrina Sabatini** (Sapienza University, Italy)  
10:15-10:30 **Tonni Andersen** (University of Lausanne, Switzerland)  
[185] The Endodermal Passage Cell - Just Another Brick in The Wall?

10:30-11:00 Coffee break

### 11:00-12:30 Plenary Session IV: Environmental Interactions 2: Biotic

Session chairs: Joy Bergelson, Cyril Zipfel

- 11:00-11:25 **Juliette de Meaux** (University of Cologne, Germany)  
11:25-11:50 **Joy Bergelson** (University of Chicago, USA)  
11:50-12:15 **Cyril Zipfel** (The Sainsbury Laboratory, Norwich, UK/University of Zurich, Switzerland)  
12:15-12:30 **Brian Rutter** (Indiana University, USA)  
[280] Arabidopsis extracellular vesicles mediate the interkingdom transport of proteins and RNA

12:30-14:00 Lunch and poster viewing

14:00-16:00 Concurrent sessions

#### Evolution and Ecology

Chairs: Angela Hancock, Marcus Koch

- 14:00-14:20 **Angela Hancock** (Max-Planck Institute for Plant Breeding Research, Germany)  
14:20-14:40 **Marcus Koch** (University of Heidelberg, Germany)  
14:40-14:55 **Wangsheng Zhu** (Max-Planck-Institute for Developmental Biology, Germany)  
[268] A new gene family modulating naturally occurring hyper-immunity in Arabidopsis identified by GWAS  
14:55-15:10 **Nader Aryamanesh** (University of Oulu, Finland)  
[560] Dissecting the genetic and plastic component of transcriptome and methylome variation of locally adapted *Arabidopsis lyrata* populations  
15:10-15:25 **Aleksia Vaattovaara** (University of Helsinki, Finland)  
[638] Evolution of the DUF26-containing gene family in plants  
15:25-15:40 **Gonda Bujis** (Wageningen University, Netherlands)  
[99] The molecular aspects of seed dormancy cycling under field conditions in *Arabidopsis thaliana*  
15:40-15:45 **Laura Perez Martin** (Universitat Autònoma de Barcelona, Spain)  
[125] Natural adaptation of *Arabidopsis thaliana* to soils with moderate carbonate levels  
15:45-15:50 **Eunyoung Chae** (Max Planck Institute for Developmental Biology, Germany)  
[502] Number of RPW8 repeats predicts NLR-dependent hybrid performance  
15:50-15:55 **Argyris Zardilis** (University of Edinburgh, UK)  
[132] A multi-model Framework for the Arabidopsis life cycle  
15:55-16:00 TBA

## Photobiology

Chairs: Stacey Harmer, Christian Fankhauser

- 14:00-14:20 **Stacey Harmer** (University of California Davis, USA)
- 14:20-14:40 **Christian Fankhauser** (University of Lausanne, Switzerland)
- 14:40-14:55 **Theresa Wiessner** (University of Tuebingen, Germany)  
[403] The central energy sensor SNRK1 affects light- and sugar-mediated alternative splicing
- 14:55-15:10 **Matt Jones** (University of Essex, UK)  
[79] The accumulation of 3'-phosphoadenosine 5'-phosphate delays circadian period
- 15:10-15:25 **Ullas Pedmale** (Cold Spring Harbor Laboratory, USA)  
[426] Vegetative shade controls root growth by activating stress responses
- 15:25-15:40 **Takato Imaizumi** (University of Washington, Seattle, USA)  
[93] Molecular mechanisms of florigen induction in photoperiodic flowering under natural long-day conditions
- 15:40-16:00 **Julin Maloof** (University of California Davis, USA)  
[711] Multiple salicylic acid pathway components are required for Arabidopsis shade avoidance

## Genomes and Chromatin

Chairs: Franziska Turck, Crisanto Gutierrez

- 14:00-14:20 **Franziska Turck** (Max Planck Institute for Plant Breeding Research, Germany)
- 14:20-14:40 **Cristanto Gutierrez** (Centro de Biología Molecular Severo Ochoa, CSIC-UAM, Spain)
- 14:40-15:00 **Kevin Mayer** (University of Wisconsin-Madison, USA)  
[393] A core histone deacetylase complex directs pleiotropic development and regulates stress-responsive gene expression
- 15:00-15:15 **Kalyanikrishna Kalyanikrishna** (Free University of Berlin, Germany)  
[451] Role of epigenetic regulation at the nuclear envelope in Arabidopsis
- 15:15-15:30 **Orit Shau** (Bar-Ilan University, Israel)  
[621] Control of RNA stability in Arabidopsis by the nonsense-mediated mRNA decay (NMD) pathway
- 15:30-15:45 **Veronique Hugovieux** (University Grenoble Alpes, CNRS, INRA, France)  
[611] Investigating the molecular mechanisms of SEPALLATA3 in flower development
- 15:45-15:50 **Kyuha Choi** (Postech, Korea)  
[645] Sequencing of SPO11-1-oligonucleotides in h2a.z deposition mutant in Arabidopsis
- 15:50-15:55 **Xiuli Bi** (University of Tuebingen, Germany)  
[262] Plant lamin-like proteins and non-CG methylation mediate chromatin tethering at the nuclear periphery
- 15:55-16:00 **Maria Luz Annacondia Lopez** (Swedish University of Agricultural Sciences SLU, Sweden)  
[320] Epigenetic sensitive expression of ALTERED MERISTEM PROGRAM 1 (AMP1) links translational repression and epigenetic regulation
- 16:00-16:05 **Ana Sofia Madeira** (Centro de Biología Molecular Severo Ochoa, CSIC, Spain)  
[108] Role of Histone HTR6 in the abiotic stress response of *Arabidopsis thaliana*

16:00-16:30 Coffee break

16:30-18:30 Poster session II

18:30 Boat trip

## Thursday June 28

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### 09:00-10:30 Plenary Session V: Signal transduction

Session chairs: Elizabeth Haswell, Ildoo Hwang

09:00-09:25 **Elizabeth Haswell** (Washington University In St. Louis, USA)

09:25-09:50 **Edward Farmer** (University of Lausanne, Switzerland)

09:50-10:15 **Ildoo Hwang** (Postech, Korea)

10:15-10:30 **Kris Hill** (University of Tuebingen, Germany)

[109] Gating of small RNA movement at defined cell-cell interfaces governs their impact as positional signals

10:30-11:00 Coffee break

### 11:00-12:30 Plenary Session VI: Plant hormones

Session chairs: Eva Benkova, Ottoline Leyser

11:00-11:25 **Eva Benkova** (IST Austria, Austria)

11:25-11:50 **Ottoline Leyser** (Sainsbury Laboratory Cambridge, UK)

11:50-12:15 **Caren Chang** (University of Maryland, USA)

12:15-12:30 **Debora Gasperini** (Leibniz Institute of Plant Biochemistry, Germany)

[629] Wound-induced shoot-to-root transport of jasmonates

12:30-14:00 Lunch and poster viewing

14:00-16:00 Concurrent sessions

#### Abiotic stress

Chairs: Inhwan Hwang, Saijaliisa Kangasjärvi

14:00-14:20 **Inhwan Hwang** (Postech, Korea)

14:20-14:40 **Venkatesh Periyakavanam Thirumalai Kumar** (Max-Planck Institute of Molecular Plant Physiology, Germany)

[59] Investigating the regulatory role of NBR1 for thermomemory in *Arabidopsis thaliana*

14:40-14:55 **Amnon Lers** (Volcani Center, Israel)

[316] MiR827 and GeBP-like alpha factor are involved in a regulatory circuit of senescence and phosphate homeostasis in Arabidopsis

14:55-15:10 Ping Lan (Institute of Soil Science, Chinese Academy of Sciences, China) **To be confirmed**

[364] Ectopic expression of ACYL CARRIER PROTEIN5 enhances salt stress tolerance in Arabidopsis

15:10-15:25 **Estee Tee** (Australian National University, Australia)

[323] The role of the chloroplast signal 3'phosphoadenosine 5'phosphate, in stomatal closure

15:25-15:40 **Maija Sierla** (University of Helsinki, Finland)

[600] The receptor-like pseudokinase GHR1 regulates stomatal closure

15:40-15:45 **Sho Takahashi** (Kyushu University, Japan)

[197] Characterization of a mutant, pist1, that has increased stomatal response to CO<sub>2</sub> when treated with phosphatidylinositol 4-kinase inhibitor, PAO

15:45-15:50 Jong-Myong Kim (Kanto Gakuin Univ. College of Science and Engineering, Japan) **To be confirmed**

[482] Acetate-jasmonate signalling network is a novel essential mechanism for plant drought tolerance

15:50-15:55 **Julia Richter** (University of Natural Resources and Life Sciences, Austria)

[592] The role of catharanthus roseus receptor like kinases in growth adaptation triggered by metal ions

15:55-16:00 **Laura Martins** (Université de Perpignan, France)

[260] The iron-sulfur glutaredoxin GRXS17 is a redox-dependent chaperone

## Reproduction

Chairs: Gwyneth Ingram, Daphné Autran

- 14:00-14:20 **Gwyneth Ingram** (ENS Lyon, France)
- 14:20-14:40 **Daphné Autran** (Institut de Recherche pour le Développement, France)
- 14:40-14:55 **Chao Yang** (University of Hamburg, Germany)  
[458] Shifting the on-off balance-the role of ASY1 phosphorylation on chromosome axis formation during meiosis
- 14:55-15:10 **Sergio Galindo-Trigo** (University of Sheffield, UK)  
[528] CrRLK1L receptor-like kinases ANJEA1 and ANJEA2 are female determinants of pollen tube reception
- 15:10-15:25 **Dawit Girma Tekleyohans** (University of Bremen, Germany)  
[396] Three parentage as a cause of polyploidization
- 15:25-15:40 **Martin Bayer** (Max Planck Institute for Developmental Biology, Germany)  
[326] A *Brassicaceae*-specific gene duplication event links fertilization with the early embryonic patterning process in Arabidopsis.
- 15:40-15:45 **Guang-Yuh Jauh** (Institute of Plant and Microbial Biology, Academia Sinica, Taiwan)  
[450] Mutation of Arabidopsis SAURs impairs the efficient translation of transcripts essential for pollen tube elongation
- 15:45-15:50 **Masahiro Kanaoka** (Nagoya University, Japan)  
[385] Structural and functional analysis of LURE proteins for species-specific pollen tube guidance
- 15:50-15:55 **Anja Schmidt** (University of Heidelberg, Germany)  
[468] Transcriptional analysis to study the acquisition of reproductive fate in sexual and apomictic *Boechera*
- 15:55-16:00 **Lucie Riglet** (Ecole Normale Supérieure de Lyon, France)  
[588] Alteration of the female microtubule/cell wall network affects pollen tube growth behavior

## Cell biology

Chairs: Karin Schumacher, Moritz Nowack

- 14:00-14:20 **Karin Schumacher** (University of Heidelberg, Germany)
- 14:20-14:40 **Moritz Nowack** (VIB Ghent, University of Ghent, Belgium)
- 14:40-15:00 **Yoselin Benitez-Alfonso** (University of Leeds, UK)  
[460] The role of callose and cell walls in the regulation of symplastic intercellular transport
- 15:00-15:15 **Guido Grossmann** (University of Heidelberg, Germany)  
[625] Spatiotemporal mapping of the growth machinery during polarization of root hairs reveals landmark for rop recruitment
- 15:15-15:30 **Yan Gong** (Stanford University, USA)  
[157] Discovery and characterization of asymmetric protein localization regulators in the stomatal lineage
- 15:30-15:45 **Antia Rodriguez-Villalon** (ETH Zurich, Switzerland)  
[126] Lipid signaling in root vascular differentiation
- 15:45-15:50 **Yu Luo** (Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, China)  
[312] CP gene regulates cytokinesis in Arabidopsis root cells
- 15:50-15:55 **Kai Dünser** (University of Natural Resources and Life Sciences, Austria)  
[535] LRX- and FER-dependent extracellular sensing coordinates vacuolar size for cytosol homeostasis
- 15:55-16:00 **Hugo Zheng** (McGill University, Canada)  
[669] A kinesin protein REN9 links the ER to microtubules for generation of fine ER in growing root hair cells
- 16:00-16:05 **Chen Liu** (Swedish University of Agricultural Sciences, Sweden)  
[659] Joint force: a plasma membrane-cytoskeleton nexus involving the Kinesin-Separase Complex (KISC) linking proteolysis with plant development



16:00-16:30 Coffee break

16:30-18:00 Workshops

**Findable, Accessible, Interoperable and Reusable, aka. FAIR Arabidopsis phenotyping data?**

Organizers: Roland Pieruschka, Markku Keinänen, Kristiina Himanen

**Seeing the invisible – young researchers presenting fluorescent based sensors as potent analytical tools**

Organizers: Maike Breiden, Vilde Olsson

**Modeling of Plant Metabolic Networks**

Organizers: Samuel Seaver, Zoran Nikoloski

**Vascular Development**

Organizers: Ari Pekka Mähönen, Laura Ragni

**Communicating Science in the Age of Fake News: Broadening Your Impact**

Organizers: Roger Innes

## Friday June 29

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### 09:00-10:30 Plenary Session VII: Epigenetic regulation

Session chairs: Claudia Köhler, Fred Berger

- 09:00-09:25 **Claudia Köhler** (University of Uppsala, Sweden)  
09:25-09:50 **Fred Berger** (Gregor-Mendel-Institute Vienna, Austria)  
09:50-10:15 **Steven Jacobsen** (University of California Los Angeles, USA)  
10:15-10:30 **German Martinez Arias** (Swedish University of Agricultural Sciences, Sweden)  
[378] Uncovering the Role of tRNA-derived small RNAs in Pollen Development

10:30-11:00 Coffee break

11:00-13:00 Concurrent sessions

### Development

Chairs: Reidunn Aalen, Ari-Pekka Mähönen

- 11:00-11:20 **Reidunn Aalen** (University of Oslo, Norway)  
11:20-11:40 **Marcus Heisler** (University of Sydney, Australia)  
[286] Organising the formation of leaves using dorsal-ventral cell type boundaries  
11:40-11:55 **Laura Ragni** (University of Tuebingen, Germany)  
[266] Lateral root and periderm formation: two sides of the same coin?  
11:55-12:10 **Anne Vatén** (Stanford University, USA)  
[682] Modulation of asymmetric division diversity through cytokinin and speechless regulatory interactions  
12:10-12:25 **Léa Rambaud-Lavigne** (ENS de Lyon, France)  
[40] The genetics and mechanics of shoot apical stem cells  
12:25-12:30 **Hirokazu Tsukaya** (University of Tokyo, Japan)  
[29] Visualization of signaling molecules using genetically encoded fluorescent indicators

### Model to crop

Chairs: Dave Jackson, Sean Cutler

- 11:00-11:20 **Dave Jackson** (Cold Spring Harbor Laboratories, USA)  
11:20-11:40 **Sean Cutler** (University of California Riverside, USA)  
11:40-11:55 **Michael Raissig** (University of Heidelberg, Germany)  
[370] A developmental innovation allows grasses to "breathe" more efficiently  
11:55-12:10 **Kaisa Kajala** (Utrecht University, Netherlands)  
[107] Tomato roots in drought - from big data to regulation of cell type development  
12:10-12:25 **Judith van Dingenen** (Max Planck Institute of Molecular Plant Physiology, Germany)  
[270] Limited N availability delays flowering in Arabidopsis and potato and has cultivar-dependent effects on tuber yield and quality traits  
12:25-12:30 **Marcos Egea-Cortines** (Universidad Politécnica de Cartagena, Spain)  
[677] Commonalities and divergences between the Arabidopsis and petunia circadian clock

### Post-translational control

Chairs: Waltraud Schulze, Michael Wrzaczek

- 11:00-11:20 **Waltraud Schulze** (University of Hohenheim, Germany)  
11:20-11:40 **Ive de Smet** (VIB Ghent, Ghent University, Belgium)  
[339] High ambient temperature signalling network identifies novel regulators of thermomorphogenesis  
11:40-11:55 **Marie Boudsocq** (Institute of Plant Sciences Paris-Saclay, France)

- 11:55-12:10 [462] Deciphering CDPK functions through identification of substrates  
**Beatriz Orosa** (University of Edinburgh, UK)
- 12:10-12:25 [668] Specific ubiquitin linkages may regulate plant immunity  
**Hannah Tedds** (University of Birmingham, UK)
- 12:25-12:30 [133] VERNALIZATION2 is an oxygen- and nitric oxide- regulated substrate of the N-end rule pathway of proteolysis  
**Julia Krasensky** (University of Helsinki, Finland)
- [563] Multiple signal integration - How light affects stress responses

**13:00-14:00 Lunch and poster viewing**

**14:00-15:30 Plenary Session VIII: Metabolism and nutrients**

Session chairs: Barbara Halkier, Wolf Frommer

- 14:00-14:25 TBA
- 14:25-14:50 **Barbara Halkier** (University of Copenhagen, Denmark)
- 14:50-15:15 **Cheng-Hsun Ho** (Institute of Plant and Microbial Biology, Academia Sinica, Taiwan)  
[446] Molecular diagnostics-identification of novel regulators for nitrogen transporters in Arabidopsis
- 15:15-15:30 **Saija Kangasjärvi** (University of Turku, Finland)  
[627] Post-translational regulation of trans-methylation reactions and formation of deterring indole glucosinolates
- 15:30-16:30 16:30 Keynote lecture **Tetsuya Higashiyama** (ITbM, Nagoya University, Japan)  
Chair: Michael Wrzaczek
- 16:30-17:00 Announcement of ICAR2019 and ICAR2020, Poster Prizes, Farewell