



**SESSION 1:**

**9:00 – 10:30:** Talks I Actin (*Chair: Katerina Schwarzerova*)

9:00-9:20 Fatima Cvrčková (*Charles University, Prague*): Formins: shaping the endomembrane system and beyond

9:20-9:40 Patrick Duckney (*Durham University*): Actin-membrane interactions coordinate responses of organelle compartments to extracellular signals

9:40-10:00 Vera Wagner (*Martin-Luther University, Halle*): Regulatory lipids at the actin-membrane interface of polar growing plant cells

10:00-10:20 Andreas De Meyer (*VIB-UGent*): Filling the GAPs in endocytosis

10:20-10:50: Coffee break

**10:50 -12:30:** Talks II Actin / Poster flash talks (*Chair: Peter Nick*)

10:50-11:10 Barbora Jelínková (*Charles University, Prague*): Role of ARP2/3 protein complex in endomembrane dynamics regulation and cell wall building

11:10-11:30 Jan Martinek (*Charles University, Prague*): Role of ARP2/3 complex in pollen tube growth

11:30-11:50 Rene Schneider (*University of Potsdam*): A novel phenotyping tool for secondary cell walls of proto- and meta-xylem vessels

11:50-12:30 Flash talks I (8 total)

12:30-14:00 Lunch break + discussions

**SESSION 2:**

**14:00-15:30:** Talks I Cell division (*Chair: Katharina Bürstenbinder*)

14:00-14:20 Magalie Uyttewaal (*INRAE - Institut Jean-Pierre Bourgin*): Tight control of division plane orientation is necessary to optimize the growth capacity of tissues and organs in *Arabidopsis thaliana*

14:20-14:40 Pradeep Dahiya (*Leibniz Institute for Plant Biochemistry, Halle*): Function of IQD scaffolds at the phragmoplast and cell plate

14:40-15:00 Camila Goldy (*RDP - RNS de Lyon*): Analysis of spatial dynamics of lipid signaling and cytoskeleton in dividing plant cells

15:00-15:20 Paul Trevorrow (*Wiley – Cytoskeleton*): A new era of publishing; publishing strategy discussion

15:20-16:00: Coffee break

**16:00-17:45:** Talks II/Poster flash talks (*Chair: Einat Sadot*)

16:00-16:20 Pantelis Livanos (*University of Erlangen-Nuremberg*): POK2 polarization: Cortical microtubules template and phospholipids safeguard specificity

16:20-16:40 Shu Yao Leong (*Tübingen University*): The C-terminus of the Phragmoplast Orienting Kinesin 2 binds microtubules and lipids

- 16:40-17:00 Henrik Buschmann (*Mittweida Technical University*): Cell division in the algae to land plant transition: the evolution of microtubule binding in AIR9 and TANGLED1
- 17:00-17:40 Flash Talks II (8 total)
- 17:35-19:00 Discussion of posters with drinks
- Dinner

## Friday, June 30<sup>th</sup>

### SESSION 3:

#### 9:00-10:30: Talks I –Microtubules (*Chair: Jessica Erickson*)

- 9:00-9:20 Peter Nick (*Karlsruhe Institute of Technology*): A motor acting as signal
- 9:20-9:40 Ellen Allwood (*University of Sheffield*): An auxin-sensitive kinesin involved in development
- 9:40-10:00 Syamala Inumella (*Institute of Science and Technology Austria*): Cytokinin induced modulation of the cortical microtubule array
- 10:00-10:20 Zsofia Winter (*University of Neuchâtel*): Channeling your inner self: the role of MAP70-2 during lateral root formation

10:20-11:00: Coffee break

#### 11:00-12:30: Talks II (*Chair: Jan Martinek*)

- 11:00-11:20 Jessica Erickson (*Leibniz Institute for Plant Biochemistry, Halle*): A comparative analysis of XopLs from distantly related Xanthomonas strains reveals how effector localisation to plant microtubules influences functionality
- 11:20-11:40 Sebastian Schornack (*University of Cambridge, Sainsbury Laboratory*): A molecular basis for functional specificity of Medicago SCAR/WAVE genes
- 11:40-12:00 Joris Sprakel (*Wageningen University*): An actin mechanostat regulates the mechanics of plant penetration by a pathogen
- 12:00-12:20 Einat Sadot (*Volcani Institute*): Dissecting the contribution of phosphorylation sites in the tail of myosin XI to its function in organelle movement and cell division

12:20-13:30 Lunch break

#### 13:30-15:00 Talks III (*Chair: Katerina Schwarzerova and Katharina Bürstenbinder*)

- 13:30-13:50 Serapion Pyrpasopoulos (*University of Tübingen*): Microtubules as mechanosensors
- 13:50-14:10 Gillis Dupouy (*IBMP-CNRS*): Cytoskeleton role in nuclear morphodynamics in Arabidopsis thaliana root cells
- 14:10-14:30 Isabella Østerlund (*University of Copenhagen*): GraFT - Robust spatiotemporal filament disentanglement using a network theoretic framework
- 14:30-14:50 **Final discussion, poster and presentation awards, ending remarks.**

End - (Participants are invited to stay a bit longer for individual discussions)

## **Poster flash talks**

### **Session I**

Rajdeep Gosh (*Charles University, Prague*): Formin FH2 in callose deposition in Arabidopsis root

Toranj Rahpeyma (*Karlsruhe Institute of Technology*): Puzzling stromules: The Enigmatic Pathways of Plant Cellular Transport

Maria Voloshina (*Charles University, Prague*): ARP2/3 and the secretory pathway

Samuel Haluska (*Charles University, Prague*): Can the preprophase band grow a cell plate?

Choy Kriechbaum (*Universität Erlangen*): Insights into the spatiotemporal regulation of PHRAGMOPLAST ORIENTING KINESINS

Alexander Strohmayr (*TU München*): Role of the Arabidopsis TRAPP II tethering complex in division plane establishment

Katerina Schwarzerova (*Charles University, Prague*): Analysis of Snowy Cotyledon 3 localization to microtubules

Leia Colin (*Copenhagen University*): Unraveling the role of Cellulose-microtubule uncoupling proteins (CMUs) in plant physiology

### **Session II**

Annemarie Bok (*Wageningen University*): Biophysical-chemistry of catch bonds from walled cells

Amelie Bauer (*ENS Lyon*): Mechanical control of seed shape in Arabidopsis

Annalisa Bellandi (*ENS Lyon*): Glutamate as a spatio-temporal integrator between mechanosensing and microtubule behaviour

Yingrui Ma (*IPK Gatersleben*): Maintaining the organelle band via actin dynamics in male meiosis in Arabidopsis

Lea Maria Mayer/Javier Garcia (*Karlsruhe Institute of Technology*): Stromules and Terpenes: Unraveling the Intriguing Cross Talk in Plant Biochemical Pathways

Adrienn Kelemen (*University of Debrecen*): Cyanotoxin induced microtubular alterations that also affect the development of plant roots

Joanna Strohmeier (*MPI Golm*): The role of class II formin in Arabidopsis thaliana root hair elongation

Martin Hartmut Schattat (*MLU Halle-Wittenberg, Halle*): MoClo compatible toolbox for plant cell biology