



## Final program PPRM2025 Edinburgh 8-10<sup>th</sup> September 2025

### Monday, September 8<sup>th</sup>

8:00-9:30 Welcome and registration

9:30-9:45 Welcome by Frank Menke

#### Session I: Reproduction

Chair: Lisa Smith

9:45 – 10:25

**THE EMBO KEYNOTE LECTURE: UELI GROSSNIKLAS  
CELLULAR SIGNALING DURING PLANT REPRODUCTION**

10:25 – 10:45

Phillip Denninger: Balancing intracellular signaling during pollen germination of *Arabidopsis thaliana*

10:45 – 11:00

Flash talks: even numbers - part 1 (6 talks)

11:00 11:25

Coffee Break

#### Session II Symbiosis

Chair: Stefanie Ranf

11:25 – 11:55

Invited speaker: Lena Mueller

**Molecular control of beneficial plant-fungus interactions by  
CLAVATA signaling modules**

11:55 – 12:15

Bich Luu: Engineering of Lysin motif receptor-like kinases to enable Nod factor perception in cereal crops

12:15 – 12:35

Pierre Gautrat: The sTDIF signaling peptide modulates the root stele diameter and primary metabolism to accommodate symbiotic nodulation

12:35 – 13:30

Lunch

#### Session III: Development I

Chair: Peter Etchells

13:30 – 14:00

invited speaker: Ora Hazak

**Non-Cell-Autonomous Peptide Signaling Drives Xylem  
Maturation**

14:00 – 14:20	Francisco Gordillo-Canton Evolution of SERK-mediated signaling in plant development and immunity
14:20 – 14:40	Agnieszka Gladala-Kostarz: Modified function of a stem cell regulator in monocots and dicots
14:40 – 15:00	Christoph Ringli: The CATION CALCIUM EXCHANGER 4 (CCX4) regulates LRX1-related root hair development through modulating Ca <sup>2+</sup> homeostasis
15:00- 15:30	Coffee break

#### **Session IV: Immunity I**

Chair: Christine Faulkner

15:30 – 16:00	Invited Speaker: Renier van der Hoorn <b>Elicitor release and degradation in the apoplast of <i>Nicotiana benthamiana</i></b>
16:00 – 16:20	Henriette Leicher: Endogenous RALF peptide function is required for powdery mildew host colonization
16:20 – 16:40	Mengzhu Zeng: The receptor-like protein RXEG1 confers broad-spectrum resistance in plants by recognizing microbial glycoside hydrolase 12 proteins
16:40 – 17:00	Urooj Fatima: Leaf rust ligand induces receptor kinase-mediated non-host resistance in barley
17:00 – 17:15	Flash talks: even numbers - part 2 (6 talks)
17:15 – 19:30	Poster session

### **Tuesday, September 9<sup>th</sup>**

#### **Session V Development II**

Chair Frank Menke

9:00 – 9:40	<b>KEYNOTE SPEAKER: KEIKO TORII</b> <b>PEPTIDE LIGAND - RECEPTOR KINASE SIGNALING PATHWAY ENSURING STOMATAL PATTERNING: SIGNAL ACTIVATION, ATTENUATION, AND SPECIFICITY</b>
9:40 – 10:00	Peter Etchells: A receptor kinase complex refines cambium activity in Arabidopsis
10:00 – 10:20	Faith Kanana Pace yourself! A novel, evolutionarily conserved peptide controls cell division
10:20 – 10:40	Flash talks: Odd numbers - part 1 (6 talks)
10:40 – 11:00	Coffee Break

#### **Session VI: Cell Wall and Apoplastic Space**

Chair: Martin Stegman

11:00 – 11:30	Invited Speaker: Thorsten Hamann <b>The role of cell wall integrity signaling in regulating mechanical properties of plant cell walls</b>
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11:30 – 11:50	Michaela Ticha: Hormonal responses to cell wall damage and osmotic stress: a potential role of CLE peptides
11:50 – 12:10	Pedro Jimenez: A membrane receptor kinase functions as a cell wall sentinel to prime plant immunity
12:10– 12:30	Mariana Schuster: Investigating proteolytic processing as a mechanism of regulation of the function of receptor-like kinases
12:30 – 12:45	Flash talks: Odd numbers - part 2 (6 talks)
12:45 – 14:00	Lunch

### **Session VII: Signalling I**

Chair: Irene Guzman-Benito

14:00 – 14:30	Invited speaker: Julien Gronnier <b>Membrane-based regulation and evolution of cell surface signaling</b>
14:30 – 14:50	Lei Wang: A Phytocytokine Antagonist in Tomato
14:50 – 15:10	Chuanyou Li: Antagonistic Systemin Receptors Integrate the Attenuation with Activation of Systemic Wound Signaling
15:10 – 15:45	Coffee Break

### **Session VIII: Technological Advances**

Chair: Markus Draeger

15:45 – 16:15	invited speaker: Ari Sadanadom <b>SUMO connects immune responses and temperature dependant growth control through FLS2 PRR and BRI1 BR receptor DeSUMOylation</b>
16:15 – 16:35	Caroline Martin: A transcriptional atlas of early Arabidopsis seed development suggests mechanisms for inter-tissue coordination
16:35 – 16:55	Long Wang: A Plant Cell-to-Cell Communication Atlas Empowered by Receptor Kinase-Ligand Interactome
16:55 – 17:15	Ann-Katherin Roessling: From the Cell Wall to the Vacuole: FERONIA's Role in Regulation Cellular
17:15 – 19:15	Poster session
19:30-24:00	Conference diner and party

**Wednesday, September 10<sup>th</sup>**

### **Session IX: Immunity II**

Chair: Jack Rhodes

9:00-9:30	invited speaker: Gitta Coaker <b>Predicting and Enhancing Plant Immune Perception of Pathogen Epitopes</b>
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09:30 – 09:50	Mung Hsia Foo: The origin and evolution of LysM RLKs in plants
09:50 – 10:10	Isabel Monte: The single CrRLK1L in the liverwort <i>Marchantia polymorpha</i> is a negative regulator of immunity
10:10-10:30	Guido Van den Ackerveken: Analysis of a lettuce cell surface immune receptor mediating nlp-triggered immunity
10:30-11:00	Coffee break

## Session X: **Signaling II**

Chair: Henriette Leicher

11:00-11:30	Invited Speaker: Yan Wang <b>Effectors: probes to decoding <i>Phytophthora</i>-plant interactions in the apoplast</b>
11:30 – 11:50	Irene Guzmán-Benito: Rooting for Specificity: FLS2 and SGN3 Conversations in the Endodermis
11:50 – 12:10	Simon Snoeck: $\alpha$ -sheet stabilization of the island domain underlies ligand-induced LRRP activation of plant immune signaling
12:10 – 12:30	Yoonyoung Lee: Characterisation of SCOOP-induced late ROS responses
12:30 – 13:00	Poster and talk prizes and closing remarks (Frank)
13:00 – 14:00	Lunch and departure

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