

Program for the 5th European Workshop on Peptide Signalling in Plants 2017: “Plant peptides & receptors”

Wednesday September 6th

- 12:00 Arrival and Lunch buffet
- 13:00 Welcome
- Topic
- 13:10-13:55 **Jijie Chai**
Structural basis for recognition of plant signaling peptides by their receptors
- 13:55-14:15 **Peter DiGennaro**
Tertiary structures of diverse plant peptides share a conserved core, with distinct molecular dynamics and receptor binding characteristics
- 14:15-14.35 **Christian S. Hardtke**
Perception of root-active CLE peptides requires CORYNE function in the phloem vasculature
- 14:35-15:10 **Coffee break**
- 15:10-15:30 **Sarina Schulze**
BIR family receptor kinases – negative regulators of LRR-RKs and more
- 15:30-15:50 **Li-Jia Qu**
Two receptor-like kinases regulates pollen tube integrity by perceiving two pollen-specific peptides in Arabidopsis

New methods and approaches

- 15:50-16.10 **Judith Fliegmann**
A Golden Gate-based LRR domain library as a tool for structure-function analyses of plant pattern recognition receptors
- 16:10-16:30 **Elwira Smakowska-Luzan**
An extracellular networks of Arabidopsis leucine-rich repeat receptor kinases control plant development and defenses
- 16:30-16:50 Short break
- 16:50-17:10 **Ive De Smet**
(Phospho)proteome profiling to gain insight in peptide signaling cascades
- 17:10-17:30 **Nils Stührwohldt**
Biogenesis of plant peptides by post-translational modifications
- 17:30- Future funding opportunities, discussion
- 18:30 Dinner

Thursday September 7th

7:00- Breakfast

Peptide signalling in plant immunity

9:00-9:45 **Markus Albert**

Peptidic signatures of the plant parasite Cuscuta and recognition thereof in hosts

9:45-10:05 **Kay Gully**

Regulation of plant development and defense response by fireman, a new small endogenous peptide.

10:05-10:25 **Frank L.H. Menke**

Monitoring phosphorylation and ubiquitination in pattern recognition receptor signaling

10:25-11:00 **Coffee break**

11:00-11:20 **Lei Wang**

Two related receptor kinases SYR1 and SYR2 of tomato act as high and low affinity receptors for the plant peptide hormone systemin

11:20-11:40 **Antonio Molina**

SignWALLing: Plant immunity regulated by cell wall-derived MAMPs/DAMPs

11:40-12:00 **Martin Stegmann**

The receptor kinase FER is a RALF-regulated scaffold controlling plant immune signaling

12:00-13:00 **Lunch buffet**

13:00-13:45 **Youssef Belkhadir,**

Phytosulfokine and Danger peptide signaling relies on an expanded range of modulatory LRR-RKs

Peptides and signalling

13:45-14:05 **Umberto Salvagnin**

Secreted peptide hormones and their receptors participate to the regulation of peach ripening

14:05-14:20 **Nick Vangheluwe**

Peptide signaling during plant development, an emerging story from the roots

14:20-14:50 **Coffee break**

14:50-15:10 **Anja Fuglsang**

RALF mediated inactivation of H⁺ pumping is calcium regulated

15:10-15:30 **Thomas de Bang**
Genome-wide Annotation and Transcriptomic Analysis Identifies Small Secreted Peptides with Nodule- and Macronutrient-Responsive Expression in Medicago truncatula

16:00-18:00 Poster session

18.30 **Dinner**

19.30 Poster session continued (with refreshments)

Friday September 8th

8:00- Breakfast

Development

9:00-9:45 **Naoyuki Uchida**
Versatile control of growth and development by ERECTA-family receptor signaling

9:45-10:05 **Barbara Berckmans**
Identifying the signaling network that regulate root stem cell homeostasis

10:05-10:25 **Michael A Djordjevic.**
CEP3 levels affect G1/S-phase transition in Arabidopsis in the root meristem in response to nitrogen and carbon limitation and alter overall root architecture

10:25-11:00 **Coffee break**

11:00-11:20 **Satoshi Fujita,**
SCHENGENs produce radicals: Localized ROS production by peptide-receptor signaling module during Casparian strip formation

11:20-11:40 **Pauline Anne,**
CLERK - a new Receptor Like Kinase involved in protophloem development

11:40-12:00 **Closing remarks**

12:00 Lunch buffet

End of meeting