## 11th Plant Peptides and Receptors Meeting 2023

Lyon October 2nd-4th 2023

## Monday October 2<sup>nd</sup>

8:00-9:45 9:45-10:00	Registration Opening remarks	
Session: REPRO	DDUCTION Chair: Stefanie SPRUNCK	
10:00-10:30 Guidance	Tetsuya HIGASHIYAMA. Imaging Approaches for Peptide Signaling in Pollen Tube	
10:30-10:45	Daphne GORING. Arabidopsis LRR VIII-2 Receptor-Like Kinases regulate intra- and inter-species pollen-pistil interactions.	
10:45-11:00	Leon KUTZNER. From a Proteomic Dataset to Characterization of a Novel Plant Peptide	
11:00-11:15	Patricia SEITZ. The Pollen Tube Highway – Functional characterization of novel CRPs during fertilization in <i>Zea mays</i>	
Session: IMMU	NITY 1 Chair: Stefanie RANF	
11:15-11:30	Lin-Jie SHU. Capturing 3-hydroxy fatty acid: Characterization of the immune receptor LORE in Brassicaceae	
11:30-11:45	Jakub RZEMIENIEWSKI. CEP signaling coordinates cell surface immunity with nitrogen limitation	
11:45-12:00	Flash talks, 90 seconds each	
12:00-13:45	Lunch	
13:45-14:15	Jack RHODES. Phytocytokine signalling at the plant-environment interface	
14:15-14:30	Xu WANG. Characterization of a small family of systemin-like peptides in Solanum lycopersicum	
14:30-14:45 14:45-15:00	Lei WANG. CLE peptide signaling regulates induced volatile emissions in maize Francisco Manuel GORDILLO CANTON. Evolution of SERK-mediated specificity in plant development and immunity	
15:00-15h15	Maurice KÖNIG. From an ancestral viral infection of Zea to the release of Zip1 – a maize specific phytocytokine	
15h:15-15:30	Markus DRAEGER. Growing Strong or Fighting Back: One MAPK Kinase Kinase to Balance It All	
15:30-16:00	Coffee break	
Session: IMMU	NITY 2 Chair: Yan MA	
16:00-16:30 different	Christine FAULKNER. Immune receptor signaling at plasmodesmata: similar but	
16:30-16:45	Julian MAROSCHEK. MIK2 RLKs generally act as Fusarium elicitor receptors in diverse plant families	

16:45-17:00	Louis-Philippe MAIER. Peptides derived from insect egg-shells are perceived as
	signals of imminent herbivore attack
17:00-17h15	Vahid FALLAHZADEH. The Arabidopsis TNL CONSTITUTIVE SHADE AVOIDANCE 1
	(CSA1) reveals activation of PTI and ETI responses downstream of the pattern
	recognition co-receptor BAK1
17:15-17:30	Keran ZHAI. The receptor kinase MIK2 links cell wall integrity sensing to pattern-
	triggered immunity
17:30-20:00	Poster session 1 with Dinatory Cocktail – Odd numbers

## Tuesday October 3<sup>rd</sup>

Session: ABIOT	IC INTERACTIONS	Chair: Santosh SATBHAI
9:00-9:30 by long-range r	Yoshikatsu MATSUBAYA nobile peptide signals	SHI. Plant adaptation to fluctuating nitrogen environments
9:30-9:45	Rebecca JOHN. (Recepto transporters	r) Kinase signaling modules involved in regulation of nitrate
9:45-10:00		F1-PLT2 regulatory network maintains primary root phosphate environments.
10:00-10:15		Deciphering the mechanism for brassinosteroid receptor ant adaption to drought stress

	kinase protein BRL3 in plant adaption to drought stress	
Session: Symbi	osis Chair: Franck MENKE	
10:15-10:30	Lea PEDINOTTI. Functional study of CLE peptides regulating arbuscular mycorrhizal symbiosis	
10:30-10:45	Flash talks 90 seconds each	
10:45-12:30	Poster session 2 with coffee – Even numbers	
12:30-14:00	Lunch	
14:00-14:30 legume symbio	Clare GOUGH. Medicago truncatula SOBIR1 controls specificity in the Rhizobium- osis	
14:30-14:45 14:45-15:00	Katarzyna PARYS. Genetic and functional diversity of Lotus malectin-like domain leucine-rich repeat receptor kinases in root endosymbiosis Juliette TEYSSENDIER DE LA SERVE. Signaling peptides regulating root endosymbioses in the model legume Medicago truncatula	

15:00-15:15	Kaltra XHELILAJ. Towards an atlas of REMORIN-nanodomains associated functions
15:15-15:30	Jingyi HAN. Balancing cell proliferation and differentiation in the vascular cambium
15:30-15:45	Liam ELLIOTT. A self-regulatory receptor module involved in edge-based control of
	plant growth

Session: Development 1 Chair: Zach NIMCHUK

15:45-19:00 Free time

19:00-23:00 Gala dinner

## Wednesday October 4<sup>th</sup>

9:00-9:30 root cell division	Jaimie VAN NORMAN. Which side are you on? Linking polarized receptor kinases to on control	
9:30-10:45	Alberto CAREGNATO. Molecular basis for differential CIF peptide sensing by the receptor kinase GSO1 and GSO2/SGN3	
9:45-10:00	Irene GUZMÁN-BENITO. Uncovering the role of PBLs in signalling specificity in the endodermis	
10:00-10:15	David MOLINA. The SCHENGEN Pathway Orchestrates the Protective Barrier of the Periderm	
10:15-10:30	Penelope LINDSAY. Regulation of maize ear development by a CLAVATA-related receptor complex	
10:30-11:00	Coffee break	
Session: Development 2 Chair: Christine MIEGE		
11:00-11:30 responses	Melinka BUTENKO. The IDA signaling pathway: cell separation and biotic stress	
11:30-11:45	Zengxiang GE. Mutual regulation of canalization by CLE peptides and auxin in Arabidopsis	
11:45-12:00	Esther IZQUIERDO ALEGRE. Role of hormone peptides in the systemic regulation of white lupin cluster roots development	
12:00-12:15	Nelson SERRE. Dynamic remodeling of the anionic lipid landscape by RALF peptides	
12:15-12:30	Rebecca BURKART. Optogenetic approach to study stem cell fate regulation via Calcium-fluxes within the root of Arabidopsis thaliana	
12:30-13:00	Closing remarks Poster and talk prizes	