

Program of SymbiPhyt 2026
February, 2-3-4 2026
Saint-Martin-de-Londres

Monday, Feb. 2nd

- 13:00 | Arrival and registration
- **14:00 – 15:20 | Session I | Evolution and mechanisms of plant–microorganism interactions, part 1**
 - o Triana Ramirez (LIPME) | *Investigating the role of bacterial cellulose in a vertically transmitted symbiosis in the phyllosphere*
 - o Benoît Alunni (IJPB) | *Terminal bacteroid differentiation in the legume–rhizobium symbiosis: Evolution of NCR peptides and BacA transporters*
 - o Julian Rubio-Pulido (LIPME) | *Strain-dependent bacteroid differentiation of Mimosa pudica symbionts*
 - o Jean Keller (LRSV) | *Unravelling the molecular mechanisms of intracellular symbioses*
- 15:20 Coffee break
- **15:40 – 17:10 | Round table**
 - Led by
 - Marc Lepetit, ISA Sophia-Antipolis.*
 - Benoit Lefebvre, LIPME Toulouse.*
 - Guests
 - *Celine Masclaux-Daubresse, IJPB Versailles, cheffe de département adjointe BAP*
 - *Bruno Favery, ISA, Sophia Antipolis, chef de département adjoint SPE*
 - *Denis Vile, LEPSE, Montpellier, chef de département adjoint AgroEcoSystem (online)*
 - *Marc Buée, IAM, Nancy, département ECODIV (online)*
- 17:10 | Break
- **18:00 - 19:00 | Discussion on career development**
 - led by
 - o *Bruno Favery, Chef de département adjoint INRAE Santé des Plantes et Environnement (SPE).*
 - o *Fernanda de Carvalho-Niebel, LIPME Toulouse & nominated member of the CNRS, section 25*
 - o *Pierre Frendo, ISA Sophia-Antipolis & member of the Conseil National des Universités, section 66*
 - o *Sandra Bensmihen, LIPME Toulouse & member of the CSS2 of IRD*
- 19h30 | Dinner (*Only for hotel guests*)

Tuesday, Feb. 3rd

- **09:00 – 10:20 | Session II | Evolution and mechanisms of plant–microorganism interactions, part 2**
 - o Anaïs Delers (LIPME) | *The role of DIX-domain polarity proteins in legume–rhizobia symbioses*
 - o Jean-François Arrighi (PHIM) | *A constitutively activated infection pathway underlies the rhizobial Nod-independent symbiosis in Aeschynomene evenia*
 - o Yara Noureddine (LIPME, ISA) | *Deciphering NF-YA1 transcription factor targets in nodule and gall formation*
 - o Anthony Calonne (LRSV) | *Evolution of nodule determinacy in legumes*
- 10:20 | Coffee break
- **10:40 – 12:30 | Session III | Symbioses and biotic and abiotic environment, part 1**
 - o Fang Xie (CAS Shanghai) | *NLP1 SUMOylation Integrates Nitrate Signaling and Nodulation*
 - o Guilhem Reyt (LIPME) | *Radial nutrient transfer during arbuscular mycorrhizae*
 - o Benjamin Gourion (LIPME) | *Stories involving rhizobia, legumes and pathogens (not all stories require three players)*
 - o Nicolas Pauly (LRSV) | *MtRBOHF at the crossroad of symbiotic and abiotic stress responses in Medicago truncatula*
 - o Colin Pellerin (PHIM) | *The non-canonical histidine kinase AeHK5 drives lateral root and nodule organogenesis in the tropical legume Aeschynomene evenia*
- 12:30 – 14:00 | Lunch
- **14:00 – 15:00 | Session IV | Symbiotic communities, part 1**
 - o Martina Januskova (Institute of Botany, Prague) | *Do arable soils select for less mutualistic arbuscular mycorrhizal fungi?*
 - o Raphael Boussageon (Agroscope Zürich) | *Engineer the soil microbiome to improve strawberry fruit quality*
 - o Elisa Taschen (Eco&Sol) | *Contrasting biotic and abiotic drivers of Glomeromycotina and Mucoromycotina mycorrhizal associations in a durum wheat field experiment*
- 15:00 | Break
- **15:20 – 17:00 | Workshop**
 - led by Marion Prudent (Agroécologie), with guests:
 - SymbiPhyt : Marc Lepetit, ISA /Aurélien Carlier, LIPME /Pierre-Emmanuel Courty, Agroécologie
 - MoDip : Maud Bernoux, LIPME
 - PlantCom : Germain Montazeaud, AGAP (présentiel)
 - RhizoPhile : Philippe Nacry, IPSIM
 - RhizosPhare : Agnès Attard, ISA
 - ENVIE : Mathilde Fagard, IJPB
- 18:00 - 19h30 | Wine tasting (*Only for hotel guests*)
- 19h30 | Dinner (*Only for hotel guests*)

Wednesday Feb. 4th

- **09:00 – 10:00 | Session V | Symbiotic communities, part 2**
 - o Marco Cosme (UPJV) | *Mycorrhizas drive the evolution of plant adaptation to drought*
 - o Célien Durney (Agroécologie) | *Arbuscular mycorrhizal fungal species diversity in vineyards: effects of soil physico-chemical properties and vineyard management practices*
 - o Benoît Alunni (IJPB) | *Maize microbiota engineering as a lever to improve nitrogen use efficiency and reduce chemical fertilization*

- 10:00 | Coffee break

- **10:20 – 11:30 | Session VI | Symbioses and biotic and abiotic environment, part 2**
 - o Marion Prudent (AgroEcologie) | Plant x rhizobia interactions at the heart of legume resilience to water deficit
 - o Yangyang Su (IPS2) | Impact of nutrient availability on the systemic regulation of symbiotic root nitrogen-fixing nodulation in *Medicago truncatula*
 - o Bruno Guillotin (IPS2) | Discovery of novel active peptides involved in nodule development in legumes
 - o Tom Laloum (ISA) | Post-transcriptional control of drought stress responses during nodulation
 - o Kevin Magne (IJPB) | Physiology of maize nitrogen nutrition under maize-soybean intercropping considering biological nitrogen fixation and common mycorrhizal network

- 11:30 – 12:00 | Closing remarks

12:00 | Lunch and departure