



Program of the fourth PLANTCOM meeting



Location: [Occitanie - Toulouse INRAE center](#) Marc Ridet conference room

GPS coordinates: 43.52784, 1.50003

November 15th

12:30 am: 1:30 pm: Lunch at the Toulouse INRAE center (financed by the PLANTCOM network)

GPS coordinates: 43.52724, 1.49915

2:00 pm - 2:15 pm: Introduction – Fabrice Roux

2:15 pm - 3:00 pm: Samuel Wüst (Agroscope, Wädenswil, Switzerland)

New ways to understand and utilize positive biodiversity effects

3:00 pm - 3:30 pm: Pierre Casadebaig & Noémie Gaudio (AGIR, Toulouse, France)

Data science for studying cereal-legume intercrops

3:30 pm - 4:00 pm: break

4:00 pm - 4:30 pm: Matthias Benoit & Mathieu Hanemian (LIPME, Toulouse, France)

Exploring the genetic mechanisms regulating the interaction between Arabidopsis and legumes

4:30 pm - 5:00 pm: Marie Invernizzi (LIPME, Toulouse, France)

Molecular bases of plant-plant interactions: identification of the molecular pathways depending on ESC-1, an RLK involved in the competitive response in Arabidopsis thaliana.

5:00 pm - 5:30 pm: Michel-Pierre Faucon (Institut Polytechnique Uni LaSalle, Beauvais, France)

Soil fertility and heterogeneity modulate plant-plant interactions

5:30 pm - 6:00 pm: Kévin Robe (Université de Genève, Genève, Switzerland)

Coumarins: highly versatile secondary metabolites



08:00 pm: Dinner at the restaurant Les Caves de la Maréchale (downtown Toulouse, financed by the PLANTCOM network) *GPS coordinates: 43.60237, 1.44402*

November 16th

9:00 am – 9:45 am: Robert Papa (Università Politecnica delle Marche, Ancona, Italy)

Participatory and decentralized science coupled with population genomics approaches to understand co-adaptation in intraspecific and interspecific mixtures.

9:45 am - 10:15 am: Laura Mathieu (PHIM, Montpellier, France)

Genetic determinants of plant-plant interactions in wheat intraspecific mixtures

10:15 am - 10:45 am: break

10:45 am – 11:15 am: Ute Höcker (Institute for Plant Sciences, Cologne, Germany)

Adaptive potential of light signaling genes in Arabidopsis plant-plant interactions

11:15 am – 11:45 am: Oumayma Mhamdi (IJPB, Versailles, France)

Identification of genes and metabolites controlling plant-plant interaction (Allelopathy)

11:45 am – 12:15 am: Léa Frachon (Agroécologie, Dijon, France)

Putative signals of generalist plant species adaptation to local pollinator communities and abiotic factors

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Map of the Occitanie – Toulouse INRAE center

