The International Phytobiomes Conference 2018 will bring together about 250 international researchers and scientists from the public and private sector to collectively advance a newly-emerging field of agricultural research: phytobiomes.

Plants grow in association and interaction with complex communities of organisms, environmental conditions, and management practices. The term “Phytobiomes” encompasses all of this complexity. It refers to a plant (“phyto”) in a distinct geographical unit (“biome”) – a field, grassland, greenhouse, garden, or forest. A phytobiome includes the plant itself, all micro- and macro-organisms living in, on, or around the plant – such as microbes, animals, insects and other plants – and the environment, including soil, air, water, weather, and climate.

Understanding entire systems of Phytobiomes will be critical to ensuring sustainable global food security in the next decades in the context of population growth, climate change, and the necessity to preserve biodiversity and natural resources.

Over two and half days, public and private sector agronomists, plant pathologists, geneticists, microbiologist, soil scientists, data scientists, biostatisticians, plant physiologists, nutrient management experts, weather/climate scientists – to name only some disciplines – will present their research, discuss, and share their expertise to advance knowledge on how phytobiome components interact and affect each other.

**CONFERENCE WEBSITE**
phytobiomesconference.org

**IMPORTANT DATES**
- 31 August 2018 – Abstract submission for oral & poster presentations
- 15 September 2018 – Early-bird registration
- 15 October 2018 – Abstract submission for posters only
- 30 November 2018 – Late registration

**VENUE**
The Corum Conference Center
Esplanade Charles De Gaulle – BP 2220
34000 Montpellier France
montpellier-events.com/en/The-Corum

**REGISTRATION FEES**

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**REGISTRATION**
phytobiomesconference.org/registration

**CONTACT**
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Tel: +1.715.894.7436

4-6 December 2018
Montpellier - France
www.phytobiomesconference.org
### SECTIONS

**Exploring interactions within phytobiomes**
- Climate, weather and agriculture: Modelling and predicting impacts
- Soil, plant and insect microbiomes: Discoveries and technological advances
- Exploring microbiomes in natural habitats to better understand their functions and assembly processes

**Integrating phytobiome systems-based knowledge**
- Optimizing soil and ecosystem health through nutrient management and nutrient use efficiency
- Exploiting interactions within phytobiomes to optimize plant health, fitness and productivity

**Phytobiome engineering**
- Engineering plant, insect and microbial communities to promote agroecosystem health and productivity

**Applying phytobiome-based solutions for NexGen agriculture**
- Advances in precision agriculture
- Applying big-data analytics to understand phytobiomes
- Diversifying our approach to crop production: urban and indoor agriculture

**Transforming phytobiome discoveries into products**
- Translating complexity into products: biologicals for agriculture

### KEYNOTE SPEAKER

**Gary Felton**, Pennsylvania State University  
*The role of microbes in mediating plant-insect interactions – Benefit or betrayal?*

### INVITED SPEAKERS

- **Jonathan Adams**, Cranfield University, UK  
- **Natalie Breakfield**, NewLeaf Symbiotics, US  
- **Eoin Brodie**, University of California, Berkeley, US  
- **Trevor Charles**, University of Waterloo, CA  
- **Sally Flies**, The Fertilizer Institute, US  
- **Paolina Garbeva**, The Netherlands Institute of Ecology, NL  
- **Larry Halverson**, Iowa State University, US  
- **Jay-Ram Lamichhane**, INRA, FR  
- **Tim Mauchline**, Rothamsted Research, UK  
- **Andrea Molt**, BASF, DE  
- **Claudia Preininger**, AIT Austrian Institute of Technology, AT  
- **Angela Sessitsch**, AIT Austrian Institute of Technology, AT  
- **Steven Vandeneabeele**, Aphea.Bio, BE  
- **Lisa Wingate**, INRA, FR

### ORGANIZERS & COMMITTEES

#### ORGANIZERS
- International Alliance for Phytobiomes Research
- French National Institute for Agricultural Research (Institut National de la Recherche Agronomique – INRA)
- French National Research Institute for Sustainable Development (Institut de Recherche pour le Développement – IRD).

#### SCIENTIFIC COMMITTEE
- **Kellye Eversole**, Phytobiomes Alliance  
- **Jan Leach**, Colorado State University  
- **Gwyn Beattie**, Iowa State University  
- **Matthieu Barret**, INRA  
- **Gilles Béna**, IRD  
- **Natalie Breakfield**, NewLeaf Symbiotics  
- **Magalie Guilhabert**, Bayer CropScience  
- **Christophe Mougel**, INRA  
- **Matthew Ryan**, CABI  
- **Angela Sessitsch**, AIT Austrian Institute of Technology  
- **Corrine Vacher**, INRA  
- **Valérie Verdier**, IRD

### PLATINUM PARTNERS

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### SILVER PARTNERS

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### GOLD PARTNERS

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