



Final Programme

Wednesday 21 May 2025

9:30 Poster mounting

9:45 Introduction

10:00 WG1 session

10:00 keynote lecture. **Natacha Bodenhausen** (FiBL, Switzerland) - *Microbiome-Driven Agriculture: From Synthetic Communities to Predictive Soil Indicators*

10:30 keynote lecture. **Claire Stanley** (Imperial, UK) - *SOIL-ON-A-CHIP: Exploring below-ground interactions using microfluidic technology*

11:00 **Matheus Nicoletti Marascalchi** (Czech Republic) - *Towards a Comprehensive AMF Reference Sequence Database: Insights from 2.5kb rDNA Amplicon Sequencing*

11:15 **Mahreen Yahya** (Germany) - *Microbial Engineering for Climate-Resilient Wheat: Enhancing Phosphorus Uptake and Stress Tolerance*

11:30 - 12:00 coffee break

12:00 **Irena Maček** (Slovenia) - *Succession of arbuscular mycorrhizal fungal communities in remediated soils after inoculation*

12:15 **Steffen Kolb** (Germany) - *Microbiomes in Cereal Crop production*

12:30 **Emma Fuller** (Ireland) - *Exploring Root-Associated Microbes to Combat Phytophthora alni-Induced Alder Dieback*

12:45 **Pascale Flury** (Switzerland) - *Understanding the compost-mediated suppression of soilborne diseases: The value of high resolution sequencing*

1:00 - 2:00 Lunch

2:00 WG2 session

2:00 keynote lecture. **Sofie Goormachtig** (VIB-Ghent University, Belgium) - *How do rhizobacteria promote plant growth? All roads lead to Rome*

2:30 keynote lecture. **Rene Geurts** (WUR, The Netherlands) - *Evolution of a NIN-LIKE PROTEIN into a Master Regulator of Nitrogen-Fixing Nodulation*

3:00 **Loukia Kellari** (Greece) - *A Fusarium solani root-colonizing fungus used for the dissection and exploitation of beneficial plant-fungal interactions*

3:15 **Valerio Mattei** (Italy) - *Investigating the interaction of streptomycetes with plants using omics approaches: from the efficacy to the mode of action.*

3:30 - 4:00 coffee break

4:00 **Florian Frugier** (France) - *Local and systemic regulation of nodulation in Medicago truncatula*

4:15 **Jorge Martín-García** (Spain) - *Trichoderma-chickpea interaction: induction of systemic hormonal and metabolomic responses for effective control of rabies (Ascochyta rabiei)*

4:30 **Victor Flors** (Spain) - *Mycorrhiza-Induced Resistance: a story of resilience*

4:45 **María Soledad Sacristán Benayas** (Spain) - *Role of benzoxazinoids in maize colonization and growth promotion by the fungal endophyte Colletotrichum tofieldiae*

5:00 **Didier Reinhardt** (Switzerland) - *Sanctioning of inefficient rhizobia by Medicago truncatula*

Dinner in Berlin



Thursday 22 May 2025

9:30 WG3 session

9:30 keynote lecture. **Thomas Kuyper** (WUR, The Netherlands) - *Ecosystem services provided by arbuscular mycorrhizal fungi: economic versus ecological valuation*

10:00 keynote lecture. **Vítor João Pereira Domingues Martinho** (Polytechnic Institute of Viseu, Portugal) - *Economic evaluation of beneficial microbes and ecosystem services: Methodologies, challenges and examples*

10:30 **Sharon Zytynska** (UK) - *Uncovering functional diversity in plant-beneficial rhizobacteria: enhancing plant defences and multitrophic interactions*

10:45 **Sabina Jafarzadeh** (Azerbaijan) - *Evaluating Ecosystem Services of Arbuscular Mycorrhizal Fungi: Economic vs. Ecological Perspectives in Root Systems*

11:00 - 11:30 coffee break

11:30 **Jan Jansa** (Czech Republic) - *On the interactions between arbuscular mycorrhizal fungi and nitrification microorganisms in soils*

11:45 **Georgios Leventis** (Greece) - *Community-based plant specific microbial consortia: a microbiome-based tool to enhance plant fitness and soil functions in ecosystem restoration of quarry deposits in Milos (Greece)*

12:00 **Jelena Lazarević** (Montenegro) - *Beneficial fungi in pine forests on upper tree line under the climate change*

12:15 **Fevzi Elbasan** (Turkey) - *Microbial Allies in the Drought Battlefield: Reviving Nitrogen Metabolism in Maize*

12:30 - 1:30 Poster session

1:30 - 2:30 Lunch

2:30 WG4 session

2:30 keynote lecture **Vasils Kokkoris** (Vrije Universiteit Amsterdam) - *Cell and Network Dynamics in Arbuscular Mycorrhizal Fungi*

3:00 keynote lecture **Birgit Mitter** (Ensemo GmbH) *From Lab to Market: How We Applied Scientific Knowledge to Drive Innovation*

3:30 **Myrto Tsiknia** (Greece) - *Investigating the application of single, mixed and whole community microbial inocula to improve plant performance and fitness and to restore soil functions of degraded ecosystems.*

3:45 **Juan Ignacio Vilchez** (Portugal) - *Environmental and Human Safety Index (EHSI): A harmonized biosafety protocol for Plant Growth-Promoting Bacteria*

4:00 - 4:30 coffee break

4:30 **Isabel Brito** (Portugal) - *Crop Management Strategies for Enhancing Soil Microorganisms and Sustainable Food Production*

4:45 **Effimia Papatheodorou** (Greece) - *The effects of microbial inoculants on plant growth and rhizosphere microbial communities*



5:00 **Leo van Overbeek** (The Netherlands) - *The search for molecular markers indicating root growth stimulation by microbes*

5:15 **Ibrahim Ortaş** (Turkey) - *Plant root growth and mycorrhizal infection capacities of zinc (zn) deficient and tolerant wheat genotypes*

5:30 **Ayrton Andre Rosado Huaynasi** (Sweden) - *Beneficial root-associated microorganisms and the Law: Insights from the European Union legal framework towards a sustainable agriculture*

5:45 General information about the Action

6:15 Closing and poster removal