DAY 1 | 23. Nov. | 12^{A.M.} – 6^{P.M.}

10:00 – 12:00	Arrival, registration, lunch
12:00 – 12:15	WELCOME
12:15 – 12:45	OPENING STATEMENT Jeroen Meeussen (EU Minor Uses Coordination Facility, FR) How to integrate microbial solutions in sustainable agriculture
12:45 – 13:30	OPENING LECTURE Joseph Kloepper (Auburn University, US) Current Agricultural Uses and Research Directions for Microbial Inoculants
SESSION 1 13:30 – 14:30	SfAM SESSION: SUCCESSFUL MICROBIAL PRODUCTS
13:30 – 14:00	Ilaria Pertot (Fondazione Edmund Mach, IT) Can microbial biofungicides play better than chemicals?
14:00 – 14:30	Linda Johnson (AgResearch Ltd, NZ) The exploitation of <i>Epichloë</i> endophytes for agricultural advantage
14:30 – 15:00	Coffee break
SESSION 2 15:00 – 16:00	NEED FOR MICROBIAL SOLUTIONS
15:00 – 15:30	Stéphane Declerck (Université catholique de Louvain, BE) Microbial solutions to agro-environmental challenges in a changing world
15:30 – 15:45	Fabricio Cassán Use of bio-products to improve crop productivity. The success model of Argentina
15:45 – 16:00	Friederike Trognitz Plant-associated microorganisms as bioherbicides: A sustainable alternative for weed management



SESSION 3 16:00 – 18:15	COLONIZATION AND MECHANISMS OF BENEFICIAL PLANT-MICROBE INTERACTIONS
16:00 – 16:30	Marc Ongena (Gembloux Agro-Bio Tech/University of Liège, BE) Impact of root-Bacillus molecular interactions on the production of biocontrol metabolites
16:30 – 17:00	Choong-Min Ryu (KRIBB, KR) Functional metagenome mining for prompting plant systemic defense
17:00 – 17:30	Stéphane Compant (AIT Austrian Institute of Technology, AT) Endophytic bacteria: ecology, niches, colonization behavior, and use for biofertilizer/biocontrol approaches
17:30 – 17:45	Magnus Karlsson The glyoxylate and methylcitrate cycles are involved in antagonism, root colonisation and induction of plant systemic defence in the fungal biocontrol agent <i>Trichoderma atroviride</i>
17:45 – 18:00	Walter Patricio Luzuriaga loaiza Elicitation of host immunity by plant beneficial bacilli: insights into the molecular basis of surfactin perception
18:00 – 18:15	Eddie Cytryn Novel genomic tools for evaluating and tracking rhizosphere competence in biocontrol and plant growth promoting rhizobacterial strains
18:30 – 20:30	WELCOME RECEPTION



DAY 2 | 24. Nov. | 9^{A.M.} – 6:30^{P.M.}

SESSION 3 09:00 – 10:30	COLONIZATION AND MECHANISMS OF BENEFICIAL PLANT-MICROBE INTERACTIONS
09:00 - 09:15	Andrea Campisano Can insect pests be vectors of beneficial endophytes?
09:15 - 09:30	Henry Müller Employing multi-omics to elucidate beneficial traits of the plant- associated bacteria Stenotrophomonas rhizophila and Pseudomonas poae
09:30 - 09:45	Anton Hartmann Rhizobium radiobacter F4, the endomycotic bacterium in the plant growth promoting fungus Piriformospora indica, is an endophytic PGPB itself
09:45 – 10:00	Thomas Ledger Arabidopsis thaliana growth and salinity tolerance induction by Burkholderia phytofirmans PsJN: specific plant responses to bacterial emission of a blend of volatile signals
10:00 - 10:30	POSTER TALKS: Adam Schikora: The beneficial effect of plant-associated bacteria are based on quorum sensing molecules Cecilia Taulé: Characterization of sugarcane (native) plant growth promoter strains Jesús Mercado-Blanco: Pseudomonas fluorescens PICF7, an olive root endophyte with biocontrol and plant-growth promotion abilities Giulia Molinatto: Features of Bacillus amyloliquefaciens S499 involved in rhizosphere interactions: a genomic approach Gajender Aleti: A gene cluster coding for iturin like lipopeptide from Paenibacillus polymyxa Jaka Razinger: Exploiting rhizosphere competence of entomopathogenic or insect associated fungi to enhance crop resistance to soil pests
10:30 - 11:00	Coffee break
SESSION 4 11:00 – 12:00	INVOLVEMENT OF MULTITROPHIC AND MICROBIOME INTERACTIONS
11:00 – 11:30	Jos Raaijmakers (Netherlands Institute of Ecology, NL) Back to the roots: microbiology and chemistry at the root-soil interface
11:30 – 12:00	Kornelia Smalla (Julius-Kühn-Institute, DE) Environmental factors influencing fate and activity of bacterial inoculants and their effect on the indigenous microbial community in the rhizosphere
12:00 – 14:00	Lunch break & Poster session 1



SESSION 4 14:00 – 16:00	INVOLVEMENT OF MULTITROPHIC AND MICROBIOME INTERACTIONS
14:00 – 14:15	Lionel Moulin Soil, wheat genotype and their interaction impact patterns of PGP properties of culturable endophytic bacteria
14:15 – 14:30	Sebastian Baier Rhizosphere and endophytic microbial communities and plant transcriptome response in rose replant disease
14:30 – 14:45	Tom Viaene Exploration and exploitation of the maize endosphere
14:45 – 15:00	Matthieu Barret Diversity and dynamics of seed-associated microbial assemblages
15:00 – 15:15	Olaf Tyc The influence of inter-specific bacterial interactions on secondary metabolite production and antimicrobial activity
15:15 – 15:30	Armin Erlacher Novel insights into the microbiomes of leafy greens and the key role of Enterobacteriaceae
15:30 – 16:00	Poster talks: <u>Paula Baptista</u> : Relationships between endophytic fungal communities and olive tree resistance to anthracnose <u>Christina Morauf</u> : Host-specific composition of Alphaproteobacteria in the Vitis phyllosphere reveals potential for antagonistic candidates against Plasmopara viticola <u>Cátia Pinto</u> : Grapevine microbiome: a challenge to identify beneficial microorganisms for grapevine protection <u>Christin Zachow</u> : Decoding the sugar beet seed and rhizosphere microbiome for biocontrol of Rhizoctonia solani <u>Milko Jorquera</u> : Contribution of bacterial consortia on salt stress tolerance of avocado (Persea americana Mill.) seedlings grown in a commercial orchard Luhua Yang: Active community profile of bacterial endophytes in barley root
16:00 – 16:30	Coffee break
SESSION 5 16:30 – 18:30	MICROBIAL APPLICATIONS FROM LAB TO FIELD (including Bioprospection)
16:30 – 17:00	Christopher Franco (Flinders University, AU) Ground reality: do endophytes offer an advantage in the field?
17:00 – 17:30	Gabriele Berg (Graz University of Technology, AT)



Microbiome control: translating innovations from lab to field

17:30 - 17:45 **John Caradus**

Deciphering fungal behaviour – the link between endophyte biology and efficacious biological control agents

17:45 – 18:00 **Kelly Craven**

Sebacina vermifera: a unique root symbiont with vast agronomic potential

18:00 – 18:15 **David Ezra**

The use of the endophytic fungus *Daldinia concentrica* and its volatiles as a biocontrol agent

18:15 – 18:30 **Wisnu Adi Wicaksono**

Bioprospecting of endophytic bacteria from a native New Zealand medicinal plant, *Leptospermum scoparium*: bioactive and transmissibility to commercial plants

18:45 – 23:00 **SOCIAL EVENT: Sightseeing bus tour + Dinner in Vienna Townhall (separate registration necessary)**



DAY 3 | 25. Nov. | 9^{A.M.} – 5:30^{P.M.}

SESSION 5 09:00 – 10:00	MICROBIAL APPLICATIONS FROM LAB TO FIELD (including Bioprospection)
09:00 - 09:15	Mette H. Nicolaisen New isolation technique for enhanced in situ performance of 2 nd generation plant growth promoting microorganisms
09:15 – 09:30	Soumitra Paul Chowdhury Interactions of Bacillus amyloliquefaciens FZB42 with Rhizoctonia solani in the lettuce rhizosphere: from lab to the field and back
09:30 – 10:00	Adnan Akhter: Development of Fusarium oxysporum f. sp. lycopersici, mycorrhization and alteration in root exudation of tomato in compost and biochar amended soil Hatice Özactan: The using possibilities of bacterial endophytes as biostimulant and biopesticide in cucumber growing Peteh Mehdi Nkebiwe: Placement of Pseudomonas sp. PRORADIX around NH4 [†] -based fertilizer depots in maize stimulates root exploitation of the fertilizer depot Beatriz Ramos Solano: From the lab to the field: root inoculated Bacillus triggers plant defensive metabolism compromising blackberry (Rubus var. Loch Ness) fruit yield improvement upon pathogen attack Siegrid Widhalm: Isolation and functional characterization of bacteria associated to common ragweed and their utilization as biocontrol agent László Kredics: BioeGO: a new soil inoculant based on the combined application of beneficial bacteria and fungi
SESSION 6 10:00 – 11:00	APPLICATION TECHNOLOGIES AND FORMULATIONS
10:00 - 10:30	Yoav Bashan (CIBNOR, MX and Auburn University, US) Inoculant formulations are essential for successful inoculation with plant growth-promoting bacteria
10:30 – 11:00	Sebastian Håkansson (Swedish University of Agricultural Sciences /Captigel, SE) Trials and tribulations of microbial formulation
11:00 – 11:30	Coffee break

SESSION 6 11:30 – 12:00

APPLICATION TECHNOLOGIES AND FORMULATIONS



11:30 – 11:45	Ana Bejarano Desiccation: a major issue. How to maintain cell viability during storage in dry formulations?
11:45 – 12:00	Desiree Jakobs-Schönwandt Application techniques of fungal biocontrol endophytes
12:00 – 12.15	Birgit Mitter EndoSeed [™] : A new technology to generate endophyte-improved seed
12:15 – 14:00	Lunch & Poster session 2
14:00 – 15:00	ROUNDTABLE DISCUSSION BENEFITS AND POTENTIAL CONCERNS FOR CONSUMERS AND FARMERS
	With representatives from companies, national and international policy makers, NGOs, and farming associations
SESSION 7 15:00 – 15:30	REGISTRATION REQUIREMENTS OF MICROBIAL PRODUCTS
13.00 13.30	
15:00 – 15:30	Falko Feldmann (Julius-Kühn -nstitute Berlin, DE) Registration of microbial products
	• •
15:00 – 15:30	Registration of microbial products
15:00 – 15:30 15:30 – 16:00	Registration of microbial products Coffee break CLOSING LECTURE Ben Lugtenberg (Leiden University, NL) Role of microbes in sustainable crop production: challenges and

