

Posters Table

Poster Table – Poster Session 1, Mon. July 15, 18:30 – 20:00

Poster Session 1: Bringing microbial applications into practice		
PS1-S1-PP01	Katarzyna Góralska	Microorganisms support of nitrogen fertilization reduction in agriculture
PS1-S1-PP02	Ginger Korosi	Microbial solution for soil carbon sequestration in a broadacre agricultural setting - An Australian experience with LoamBio's CarbonBuilder
PS1-S1-PP03	Günter Brader	Pseudo solid state fermentation – a very real cultivation method for biopesticidal fungi
PS1-S1-PP04	Natacha Bodenhausen	Predicting arbuscular mycorrhizal fungi inoculation success with soil fungal indicators
PS1-S1-PP05	Stefania Morales	Manure as substrate for cultivation of plant-growth promoting micro-organisms
PS1-S1-PP06	Jagoda Szydło	Exploring the plant growth promoting potential of bacterial strains to improve the growth of annual and perennial wheat varieties
PS1-S1-PP08	Shenali S. Herath D.	<i>Medicago</i> crop wild relative seed microbiome hosts a more multifaceted microbial community compared to domesticated lucerne (<i>Medicago sativa</i> L) of Australian origin
PS1-S1-PP09	Inga Tamošiūnė	A role of <i>Rhodiola rosea</i> associated microbiota in adaptation of in vitro propagated plants
PS1-S1-PP10	Noadya Monnier	Combining PGPR based products for reliable biostimulant effects: living <i>Pseudomonas</i> strain and optimized <i>Bacillus</i> supernatant
PS1-S1-PP11	Maddalena del Gallo	Improving the efficiency of soil nutrient release by PGPBs: the case study of 'Fucino' <i>Solanum tuberosum</i>
PS1-S1-PP12	Lisa Joos	Field history matters: The effect of spatiotemporal dynamics and management practices on the soil bacterial and fungal communities in two agricultural fields
PS1-S1-PP13	Eliane Gomes	Bioinoculant containing strains of P solubilizing microorganisms: an example of a successful case in Brazil
PS1-S1-PP14	Jurgita Vinskienė	The effect of cryopreservation on sweet cherry microbiome composition and shoot adaptation in vitro
PS1-S1-PP15	Matevz Papp-Rupar	Microbial challenges and solutions for increasing sustainability in soft fruit production
PS1-S1-PP16	Dominika Thiem	Selection of bacterial endophytes from perennial crops support plant growth in sustainable agriculture
PS1-S1-PP17	Viktoria Stagl	Microbial sprays with enhanced rainfastness for effective treatment of <i>Phytophthora infestans</i>
PS1-S1-SF01	Mara Tabea Kraft	Phoma 2.0: A compromise between efficacy and applicability – or can farmers have both?
PS1-S1-SF02	Licinio Díaz	Performing from inside: a successful agronomical case of the use of endophytic N ₂ fixing bacterium <i>Azotobacter salinestris</i> CECT 9690
PS1-S1-SF03	Nuria Sierras	A symbiotic biostimulant: combining pro- and pre-biotics to face the current Agricultural challenges
Poster Session 1: Climate change, plant microbiomes and plant abiotic stress tolerance		
PS1-S2-PP01	Anton Govednik	Permanent grass cover in vineyards promotes abundance of nitrogen fixing bacteria and soil organic carbon content
PS1-S2-PP02	Amal Alghamdi	Mangrove-associated bacteria enhancing rice yield and salt tolerance
PS1-S2-PP03	Juliana Jäggle	Exploring metabolic profiles and plant-microbe associations of winter wheat under different water regimes in conventional and organic cropping systems.
PS1-S2-PP04	Cintia Mayr	MICROBES-4-CLIMATE: The Horizon Europe Project to unveil the intricate connections between soil, microorganisms, plants, and the environment to address climate changes
PS1-S2-PP05	Svitlana Arslan	Green synthesis of silver nanoparticles with bacterial metabolites as bioreductants and evaluation of antibacterial activity. Approach to evaluation potential environmental risk
PS1-S2-PP06	Ana García-Villaraco	Modeling the optimization of CO ₂ sequestration in a forest system through plant-microorganism interaction.
PS1-S2-PP07	Elena Kost	Microbial resistance and resilience to drought under organic and conventional farming
PS1-S2-PP08	Hamed Azarbad	Impact of soil microbiomes with different farming and climate histories on wheat traits under water stress
PS1-S2-PP09	Adriana Giongo	Microbial inoculants support the recruitment of beneficial rhizosphere microorganisms under drought conditions
PS1-S2-PP10	David Labarga	Organic mulches modify the fungal diversity of the vineyard soil in the long term but do not have a regular effect at different locations

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PS1-S2-PP11	Sonia Mazzarino	Compositional shift in the root microbiota of tomato and rice plants upon drought stress and its recovery
PS1-S2-PP12	Olga Podolich	Effects of long-term radiation on symbiotic plant-microbe interactions and genomic adaptations
PS1-S2-PP13	Tania Galindo	SOILGUARD: Measuring the impact of drought and soil management on soil biodiversity and multifunctionality at seven sites across Europe.
PS1-S2-PP14	Sonia Garcia Mendez	Boosting drought tolerance in key cereals in the era of climate change
PS1-S2-PP15	Simon Masson	Soil microbial diversity in urban parks under different vegetation covers
PS1-S2-PP16	Max Kolton	The impact of soil microplastic accumulation on seed production, root-associated microbial communities, and ecosystem functioning
PS1-S2-PP17	Sasiwimon Siricharoen	Growth substrate influences seed endophytic bacteria community and seed germination in three successive <i>Arabidopsis</i> generations
PS1-S2-PP18	Gianluca Grasso	Diversity of ancient rhizosphere microbial communities preserved in herbaria, a paleomicrobiological approach
PS1-S2-PP19	Joana Fernandes	Tackling the cultivation bias: insights from wheat-associated microorganisms
PS1-S2-PP20	Ubiraci Lana	Isolation, characterization and genomic analysis of drought-tolerant <i>Bacillus</i> strains efficient in plant growth promotion
PS1-S2-PP21	Lukas Pucher	The influence of wheat microbiomes on drought stress resilience
PS1-S2-PP22	Friederike Trognitz	The role of endophytes in cryopreservation of potato
PS1-S2-PP23	Maria Laura Amenta	Enhancing wheat crop resilience to drought stress through endophytic bacteria isolated from African rice
PS1-S2-PP24	Sonia Szymańska	Selective filtration of bacteria from soil by <i>Salicornia europaea</i> is modulated by climate and soil parameters
PS1-S2-PP25	Eliane Santarém	Tolerance of <i>Streptomyces</i> spp. to water stress and their potential for mitigating drought effects on maize (<i>Zea mays</i> L.)
PS1-S2-PP26	Ling Gu	Assemblage and function of rhizosphere microbiome under drought stress during heterosis manifestation in maize
PS1-S2-SF01	Roland Berdaguer	Root metabolites shape the rhizosphere microbiome of Solanaceae plants under drought
PS1-S2-SF02	Beatriz Ramos-Solano	The plant-curated microbiome from a saline environment includes isolates that enhance tomato growth, triggering different adaptive mechanisms
PS1-S2-SF03	Irma Milanese	Enhancement of cold tolerance of tomato plants using endophytic bacteria isolated from cold-adapted plants
PS1-S2-SF04	Marta Acin-Abiaco	Short impact on soil microbiome of a <i>Bacillus amyloliquefaciens</i> QST713 based product that correlates with higher potato yield across USA

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Poster Table – Poster Session 2, Tue. July 16, 13:20 – 15:20

Poster Session 2: Microbiomes and plant nutrition		
PS2-S3-PP01	Silvia Schrey	Effects of arbuscular mycorrhizal fungi and <i>Sebacina vermifera</i> on wheat growth and phosphorus uptake from algal biofilms produced on municipal wastewater effluent
PS2-S3-PP02	Marina Monserrat Diez	A fast-track assay and a targeted metagenomics approach to screen for the activity and community effects of Biological Nitrification Inhibitors, a plant-microbiome based solution to the Nitrogen problem
PS2-S3-PP03	Arman Shamshitov	Characterization of the Microbial Community Response to Wheat Residue Decomposition Under Different Tillage Practices
PS2-S3-PP04	Stéphane Firmin	Influence of soil PFOA contamination on rhizospheric microbial activity and nutrient acquisition traits of <i>Triticum aestivum</i> L
PS2-S3-PP05	Stefan Shilev	Intercropping and type of soil amendment affect maize yield and alter soil microbiome structure
PS2-S3-PP06	Holly K. Hone	Exploring seed microbiomes of Australian lucerne cultivars for high efficiency phosphate solubilising bacteria for plant biofertilisation application
PS2-S3-PP07	Claude Müller	Nutrient management shapes the subsoil microbiome in a long-term agricultural field trial in Kenya
PS2-S3-PP08	Lisa Carolin Bilz	Nitrogen-cycling plant microbiomes and their influence in crop nutrition
PS2-S3-PP09	Enrique Otero	Like clockwork: the influence of bacterial-based products on the recruitment of other beneficial microorganisms, increasing microbiome diversity.
PS2-S3-PP10	Anwar Dawas	Assessing the effect of recycled phosphorus source from waste activated sludge hydrothermal char on tomatoes growth and phosphatase enzymes activity
PS2-S3-PP11	Matthew Denton	Soil microbes persistently colonise the root tip and root base of a legume and are modified by root exudates
PS2-S3-SF01	Emmy L'Espérance	The role of microbial diversity and functionality in agroecosystems
PS2-S3-SF02	Rens R. T. Van Essen	Discovery of N-fixing bacteria and their application in barley.
PS2-S3-SF03	Carl Pille	Plant growth promoting members of the core <i>Brachypodium distachyon</i> root microbiome
PS2-S3-SF04	Arianna Capparotto	Dominance of leaf phenotypic variation over genetic distance in shaping lettuce leaf bacterial communities
Poster Session 2: Plant microbiome functions		
PS2-S4-PP01	Sarah Catherine Geiger	Hydroponic vs. soil: unraveling the microbial mysteries of a tropical hybrid farm
PS2-S4-PP02	Thi Bao Anh Nguyen	Can soil protists enhance plant growth?
PS2-S4-PP03	José L López Arcondo	Growth rate is a dominant factor predicting the rhizosphere effect
PS2-S4-PP04	Antonio J. Fernandez-Gonzalez	Verticillium wilt of olive (VWO) tolerance: a holistic view of the plant-microbiome communication
PS2-S4-PP05	Claire Prigent-Combaret	Exploiting Plant-Microbiomes Networks and Synthetic Communities to improve Crops Fitness
PS2-S4-PP06	Bliss Furtado	A salty proteome of fungal endophytes of <i>Salicornia europaea</i> (Salt-Fun)
PS2-S4-PP07	Shubham Dubey	Microbial societal intrigues: a tale of hidden alliances
PS2-S4-PP08	Hanna Koch	Nitrogen-cycling microorganisms and their interactions with plants
PS2-S4-PP09	Jan Zrimec	Modelling potato primary and secondary metabolism captures the principles of plant growth and defence under biotic stress
PS2-S4-PP10	Edyta Deja-Sikora	Intermediate wheatgrass cropping as a solution for conservation of soil mycobiome in sustainable agriculture
PS2-S4-PP11	Christina Straub	Nod, nod, who's there? Diversity and function of nodule associated bacteria in legumes
PS2-S4-PP12	Eva-Maria Rösmann	Don't go wasting all your reads – Sequence what really matters with RiboCop rRNA Depletion Kit for Plants.
PS2-S4-PP13	Dalia A. Gaber Mahmoud	Use of dark septate endophytes (DSEs) and other plant growth-promoting microorganisms (PGPM) as supplements in peat-free substrates
PS2-S4-SF01	Supakan Panturat	Exploring Close-Rotation Microbiome Dysbiosis In Legume

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PS2-S4-SF02	Alix Catry	Rhizosphere metabarcoding/metagenomics and plant metabolomic analyses of suppressive soils grown with tobacco (challenged by <i>Thielaviopsis basicola</i>) or wheat (challenged by <i>Fusarium graminearum</i>)
PS2-S4-SF03	Cem Turanoglu	Uneven plant phenotypic response to AM fungi inocula: a focus on <i>Asteraceae</i> family
PS2-S4-SF04	Shervin Hadian	Beneficial Traits of Endophytic Bacteria Associated with <i>Artemisia</i> spp. for Pea Plant Protection
Poster Session 2: Plant microbiomes and food quality		
PS2-S5-PP01	Chiara Traina	Insight into the bacterial and fungal above- and below-ground communities of the Taggiasca olive tree variety through a metabarcoding approach
PS2-S5-PP02	Beatrice Buffoni	Systemic effects of the grapevine root microbiota and its relationship with wine metabolites
PS2-S5-PP03	Agnese Bellabarba	Possible influence of mulch films containing phthalates on the soil microbial community: evidence from a simulation experiment of strawberry cultivation
PS2-S5-PP04	Yolanda Moreno	Isolation and characterization of beta-lactam antibiotic-resistant bacteria from organic fresh agricultural products grown in Valencia, Spain
Poster Session 2: Plant mechanisms to interact with plant beneficial microorganisms		
PS2-S6-PP01	Anže Vozelj	Potential of <i>Fusarium oxysporum</i> for studying complex interactions between plants and microbes
PS2-S6-PP02	Sándor Gonda	Glucosinolate-derived nitriles and isothiocyanates as well as flavonoids possibly contribute to the root filtering of the endophytic fungi in horseradish (<i>Armoracia rusticana</i> , Brassicaceae) through different sensitivities of fungal taxa
PS2-S6-PP03	Michiel Vandecasteele	'The Fast and Filamentous': <i>Streptomyces niveus</i> promotes growth and accelerates plant development by timely gear shifting of <i>SPL9</i> in Arabidopsis
PS2-S6-PP04	Anna Maria Pirttilä	Plant endosymbionts employed for agriculture as biofertilizers and biocontrol agents
PS2-S6-PP05	Josue Fernandez-Canela	The establishment and progression of microbial communities associated with the developing seedling roots of maize and sorghum.
PS2-S6-PP06	Eliane Santarém	Salinity modulates root exudation in <i>Streptomyces</i> -colonized maize (<i>Zea mays</i> L.)
PS2-S6-PP07	Léa Ninzatti	To a better understanding of the specificity of heritable leaf symbiosis
PS2-S6-PP08	Thomas Roitsch	Determination of metabolic host plant biosignatures by cell physiological phenotyping to assess responsiveness to beneficial microbes and improve the lab to field transition
PS2-S6-PP09	Weronika Kosowicz	The role of glucosinolates in mutualistic interaction between plants and their endophytic microorganisms.
PS2-S6-PP10	Xiaofang Huang	Genetic basis and nutritional regulation of root development and rhizosphere microbiome assemblage in maize
PS2-S6-SF01	Zulema Carracedo Lorenzo	<i>Pseudomonas</i> volatiles increase drought resilience through important transcriptional changes and by modifying the rhizosphere microbiome composition
PS2-S6-SF02	Eleonora Rolli	Non-flavonoid root exudates contributed to the plant 'cry-for-help' under polychlorinated biphenyl stress
PS2-S6-SF03	Maroua Alaoui	Characterization of non-coding RNAs in root exudates and effects on Plant Growth-Promoting Rhizobacteria
PS2-S6-SF04	Aurelien Carlier	Mechanisms Underpinning the Vertical Transmission of Leaf Endophytic Bacteria

Poster Table – Poster Session 3, Wed. July 17, 13:10 – 14:50

Poster Session 3: Plant breeding for beneficial plant-microbe interactions		
PS3-S7-PP01	Jennifer Schmidt	Microbial bioindicators associated with cadmium uptake in sixteen genotypes of <i>Theobroma cacao</i>
PS3-S7-PP02	Jari Temmermans	Unravelling the effects of cultivation intensity on the strawberry anthosphere and harnessing pollinators for rehabilitation
PS3-S7-PP03	Valentin Gfeller	Host genotype shapes the root rot resistance-associated microbiome of pea
PS3-S7-PP04	Natalie Ferro Lozano	Growth effects and root traits in <i>Theobroma cacao</i> due to mycorrhizal communities in Panama.
PS3-S7-PP05	Daniel Muller	GWAS investigation of wheat traits influencing microbial functioning in the rhizosphere of disease-suppressive soil
PS3-S7-PP06	Ewa Węgrzyn	Effect of inoculation with endophytic bacteria on growth and development of perennial Intermediate Wheatgrass
PS3-S7-SF01	Alejandra Sarai Gallo Sandoval	Plant breeding for beneficial plant-microbe interactions in <i>Brassica oleracea</i> and <i>Allium fistulosum</i> intercropping system
PS3-S7-SF02	Fede Berckx	Root system architecture and rotational cropping affecting fungal communities in winter wheat and oil rapeseed rotation cropping
Poster Session 3: Multi-partite interactions		
PS3-S8-PP01	Milica Pastar	Elucidating diversity and roles of endohyphal bacteria in a filamentous fungus model
PS3-S8-PP02	Raquel Correa Delgado	Improvement of the functionality of the soil microbial communities in banana agroecosystem with organic amendments
PS3-S8-PP03	Robert Czajkowski	Insights from the interaction of <i>Dickeya solani</i> with primary and alternative plant hosts during infection
PS3-S8-PP04	Vanessa Alvarez-Lopez	Soil bacterial functionality changes with agronomic management practices in two crop types; annual maize and perennial grassland
PS3-S8-PP05	Michelle Moffitt	Analysis of the interaction between hyperparasitic fungi, rust fungi and plant hosts in Australia
PS3-S8-PP06	Katarzyna Hryniewicz	How do mycorrhizal fungi affect PVY virus-infected <i>Solanum tuberosum</i> L.?
PS3-S8-PP07	Angela Wanjugu Muraya	The potential tradeoff between phage resistance and rhizobium-legume mutualistic functioning
PS3-S8-SF01	Leilei Li	Is chitin-mediated plant growth promotion dependent on <i>Mortierellaceae</i> species?
PS3-S8-SF02	Marcin Borowicz	Phage tail-like particles (tailocins) as weapons in fratricidal competition among Soft Rot <i>Pectobacteriaceae</i>
Poster Session 3: Microbial biocontrol of pests, pathogens and weeds		
PS3-S9-PP01	Anukool Vaishnav	Mycorrhizal hyphae transmit plant stress signal to soil microbes for improving disease resistance
PS3-S9-PP02	Sopan G. Wagh	Elucidating defense priming mechanism in tobacco by cytokinin-producing microalgae <i>Chlamydomonas reinhardtii</i> against bacterial infection
PS3-S9-PP03	José López Arcondo	Seed endophytes are a source of plant-growth-promoting traits and biocontrol agents
PS3-S9-PP04	Marco Saracchi	Streptomycetes against <i>Colletotrichum circinans</i> : a new way to control anthracnose in onion?
PS3-S9-PP05	Daniela Bulgari	<i>Streptomyces</i> spp. in solid state fermentation: biocontrol activity against <i>Fusarium culmorum</i>
PS3-S9-PP06	Johanna Mayerhofer	Assessing bacterial communities of composts: is it important to consider size fractions of compost particles and approaches for DNA isolation?
PS3-S9-PP07	Rikesh Jain	Coevolution and Natural Selection: A dual strategy for enhancing <i>Myxococcus</i> strain efficiency against plant pathogens
PS3-S9-PP08	Tristan Lurthy	Use of phloroglucinol-producing <i>Pseudomonas</i> rhizobacteria as bioherbicides for protecting crops against broomrapes
PS3-S9-PP09	Floriane L'Haridon	Effects of <i>Paenibacillus alvei</i> volatiles on <i>Botrytis cinerea</i> growth and plant protection
PS3-S9-PP10	Luca Pisoni	Solid-state fermentation of <i>Streptomyces</i> sp. IPV2742: characterisation of a new potential biocontrol agent and its metabolites
PS3-S9-PP11	Gaofei Jiang	Multi lineages of <i>Ralstonia solanacearum</i> coexist in agricultural monocultures
PS3-S9-PP12	Elena Requena Galindo	Hybrid throughput sequencing of <i>Penicillium rubens</i> genomes unveils the presence of Numts in nuclear DNA and the absence of specific genes for biocontrol

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PS3-S9-PP13	Lambert Brau	Mitigating the diverse consortium of common pathogens devastating plantations of Robusta Coffee and Black Pepper in the Vietnamese Central Highlands with applications of commercial bioinoculants and promotion of agroecological practices.
PS3-S9-PP14	Christina Papazlatani	Stimulation of soil bacteria to produce volatile compounds that suppress the growth of soil-borne phytopathogenic fungi
PS3-S9-PP15	Céline De Pessemier	Unravelling mode-of-action of biocontrol agents to combat fungal diseases in wheat
PS3-S9-PP16	Pauline Verhage	Berries beyond bugs: Enhancing strawberry resistance against insect pests with root-associated microorganisms
PS3-S9-PP17	Sneha Sabu	Exploring the potential of entomopathogenic fungi as beneficial plant endophytes
PS3-S9-PP18	Jan Kopecky	Inoculations of soils by plant growth-promoting <i>Streptomyces</i> sp. strains to suppress common scab of potatoes.
PS3-S9-PP19	Karin Hage-Ahmed	Biocontrol effects of <i>Serendipita herbamans</i> on Fusarium wilt in tomato
PS3-S9-SF01	Belen Guijarro	Improving the biocontrol strategies of three well-defined biocontrol agents, PF909, EN 282 and PO212 through consortium formulations
PS3-S9-SF02	Andrea Braun-Kiewnick	Towards a microbe-assisted soil amelioration in continuous wheat rotations
PS3-S9-SF03	Julian Liber	Uncovering genetic bases of phyllosphere commensalism in the biocontrol yeast <i>Aureobasidium pullulans</i>
PS3-S9-SF04	Livia Jerjen	Elucidating the molecular determinants underlying the anti- <i>Phytophthora</i> activity of potato-associated <i>Pseudomonas</i> .
Poster Session 3: Application of SynComs, new delivery approaches and emerging trends		
PS3-S10-PP01	Sara Pipponzi	Towards microbiome preservation: the first insights from soil microbiome preservation experiment
PS3-S10-PP02	Katto Macharis	Microbiome-based biocontrol technologies against fungal diseases on strawberries
PS3-S10-PP03	Rosalba Cipriani	The use of compost improves biodiversity in the bacterial community of the rhizosphere of tomato plants
PS3-S10-PP04	Ke Tao	Deciphering microbial social interactions at plant roots through HiPR-FISH
PS3-S10-PP05	Brianne Newman	Natural strawberry phyllosphere symbionts are impacted by greenhouse cultivation strategies.
PS3-S10-PP06	Tanvi Taparia	Two novel approaches for the design of bioinoculant SynComs
PS3-S10-SF01	Frederik Bak	Synthetic bacterial community mimics the assembly pattern of a natural community on wheat roots grown in soil
PS3-S10-SF02	Solène Mauger	Wet-lab preparation and automatized dataset decontaminating procedure for optimized single-bacteria genomics applications
Poster Session 3: Data sciences and microbiome-based precision approaches		
PS3-S11-PP01	Adrian Wallner	Genomic diversity in <i>Paenibacillus polymyxa</i> : Unveiling distinct species groups and functional variability
PS3-S11-PP02	Adriana Montañez Massa	Understanding microbiome-enzyme-clay interactions in undisturbed soils of pampa biome