

Poster Session (Salon A+E): Author present on Monday, July 8th

Poster No.	Abstract Title	Presenter
02	Plant species modify soil microbial community structure over time	I Dhungana
04	Analysis of the function of santhopine, an amadori-type opine, in tobacco rhizosphere	T Shimasaki
06	Tomatine secretion from tomato roots and its effect on the bacterial community	M Nakayasu
08	Responses of rhizosphere nematode communities to different plant functional type in fallowed red soil	C Zhang
10	Naturally Existing and Plant-Beneficial Mycorrhizal-Bacterial Associations	A Pandit
12	Ectomycorrhiza fungi influence small-scale but not large-scale mechanical reinforcement of soil	P Hallett
14	characterization of plant growth promoting trait from a barley rhizosphere microbiome using functional metagenomics approach	S CHHABRA
16	Does seed sanitization affect the plant rhizosphere microbiome and its ability to compete with the human associated pathogen, <i>E. coli</i> on salad crops?	CL KHodadad
18	Hydrocarbon degrading genes in root endophytic communities on oil sands reclamation covers	EK Mitter
20	Bacterial communities associated with boreal forest horizon and peat-material in a oil sands reclamation area	S CHHABRA
22	Apple cultivar shape the rhizosphere soil microbiota of different scion/rootstock combinations	XF Chai
24	Selected bacterial isolates from lentil field showed antagonism activity against <i>Aphanomyces euteiches</i>	C. Yang
26	Colonization patterns of root endophytic <i>Serendipita</i> spp. in a plant-pathogen system	C Hauser
28	Identification of a biocontrol for <i>Agrobacterium vitis</i> , the causal agent of grapevine crown gall	LM Nelson
30	Genetic determinants needed for <i>Rhizobium leguminosarum</i> to colonize germinating pea seeds	MA Akter
32	Bacterial Community Structures of Rhizosphere Soil and Root of Late Maturing Citrus Cultivated in P. E. House	P. Lu
34	Ameliorative effects of boron on aluminum-induced inhibition of root growth in trifoliolate orange (<i>Poncirus trifoliolate</i> (L.) Raf.) rootstock	L Yan
36	Characterization of plant growth promoting bacteria from halophytes rhizosphere and their effect on maize growth	S Mukhtar
38	Soil microbial biomass phosphorus response to phosphorus application and root carbon deposition	Z Xu
40	Do multi-species cover crop mixtures increase nitrogen on aboveground and root in organic cropping system?	S Lavergne
42	Is pH the key reason why some <i>Lupinus</i> species are sensitive to calcareous soil?	W Ding
44	Analysis of the Soil Microbiome in Response to the Application of Recycling Produced Fertilisers	D Ryan
46	Facilitated phosphorus acquisition of maize is dependent on the root traits of associated faba bean in intercropping systems	L Li
48	characterization of differentially abundant bacteria in rhizosphere of field grown <i>Brasica napus</i> genotypes-implications for breeding	Z Taye
50	Performance of transplanted 'Honeycrisp' apple trees increased by both in vivo- and in vitro-produced arbuscular mycorrhizal inocula (<i>Rhizophagus intraradices</i> , <i>Funeliformis mosseae</i> , <i>Claroideoglossum etunicatum</i> , <i>Glomus aggregatum</i>)	J. Racsko
52	Gramineae roots affect CH ₄ sequestration in tropical grassland soils	D Obregón
54	Structure of Nitrogen-transforming rhizobacterial communities under different land uses	L. Lagos-Pailla
56	<i>Bacillus aryabhatai</i> SP1016-20: a potential biocontrol agent for saline agriculture	A Cunha
58	Soil enzymatic nitrogen transformation in response to varying N treatments across four diverse <i>Brassica napus</i> (canola) lines.	S Williams

60	Labile soil organic matter pools within rhizospheres of grass species used to ameliorate degraded soils under a South African semi-arid environment	SA Materechera
62	Allocation of photosynthesized carbon from rice into rhizosphere soil aggregates depends on long-term fertilization regimes	WH Mi
64	Multifactorial influence of long-term agricultural management practices on rhizosphere microbiota assemblage and performance of lettuce.	SP Chowdhury
66	Impacts of moisture and urea on N ₂ O emissions and microbial abundances in orchard soil microcosms	LM Nelson
68	Leaf senescence, shoot and root growth of barley affected by small molecules under nitrogen deficiency	T. Kirschke
70	The effect of copper toxicity on the uptake of phosphorus in cucumber plants	S Feil
72	Microbes of the Coffee Rhizosphere - Site and Management Impacts	RR Fulthorpe
74	Soil management and microbial diversity in Dutch agricultural soils	EA Keuning
76	Use of a micro-capillary system to evaluate nutrient dynamics in rhizosphere soil solution of maize and soybean	JL Kovar
78	Rhizosphere microbial communities and distribution of assimilated carbon under zero-tannin lentil genotypes	F Lalany
80	Restarting rice production after decontamination of radioactive cesium by stripping top soil and soil dressing	H Matsuoka
82	Combined effects of plant water uptake, N availability and rhizodeposition on denitrification	PS Rummel
84	Root-microbe interactions in monocultures and wheat/lupin intercrops	M Schoebitz
86	Effects of NO ₃ ⁻ -NH ₄ ⁺ ratios on growth and physiological characteristics of N-efficient and N-inefficient rape (<i>Brassica napus</i> L.) seedlings	S Li
88	Optimizing assay pH values for enzyme activities across a soil pH	T Fraser
90	Soil microbial community structure is shaped by long-term fertilization regimes of corn crops	M Tosi
92	Arbuscular mycorrhizal fungal core microbiome, diversity and community structure in roots and rhizosphere of wheat, pea and canola are influenced by the rotation system	J Masse
94	Manipulating the root microbiome with organic anion efflux from wheat roots	A Kawasaki
96	Impacts of climate change on structure and functioning of wheat and barley rhizobiomes in conventional and organic farming	T Reitz
98	Long-term nutrient addition mediates plant-microbial associations by altering microbial metabolism	RB Bledsoe
100	The rhizosphere metagenomes of ancestral and modern wheat cultivars grown under low fertiliser inputs are not significantly different	L Quiza
102	Microbiome-guided selection to identify plant growth-promoting bacteria that enhance juvenile maize growth under cold stress	S Beirinckx
104	Correlation of the bacterial microbiome, genotypic variance and alkanin/shikonin content of <i>Echium vulgare</i> L., a plant with potential medicinal properties	C Csorba
106	Serbian lowland truffle producing forests differ in their root associated mycobionemes	A Nawaz
108	Phytobiome; To be friend or enemy in tomato rhizosphere	KH Choi
110	Microbial community networks across a soil depth gradient in biofuel cropping systems	PB Costa
112	Microbial networks in soil aggregates and their dynamics in the root-soil continuum	CC Tebbe
114	Do legume-based intercrops improve soil fauna and soil microbial diversity? Example of the cowpea-cassava intercropping system in Northern Vietnam (Yen Bai Province)	D Lesueur
116	Understanding the fundamental properties of root exudates under drying	KA Williams
118	A molecular insight into the rhizosphere with unrivalled chemical, temporal and spatial resolution	M. Lohse
120	Assessing the effect of soil texture on dynamic maize root growth by Magnetic Resonance Imaging	SR Schultes

122	Characterizing the influence of soil recruitment pools on rhizosphere compartmentalization in maize seedlings	A Stengel
124	<i>Funneliformis mosseae</i> alters soil fungal community dynamics and composition during litter decomposition	H Gui
126	Leading Biological Soil Health: An Industry Perspective	S Wiest
128	Study of arbuscular mycorrhizal fungal communities in the rhizospheric soil of litchi and mango orchards	ST Jiang
130	Identifying microbial genes along with community processes that influence competence of plant-beneficial microbes	S Poppeliers
132	Production of antifungal compounds produced by <i>Bacillus</i> strain on modified bioreactor to control <i>Rhizoctonia solani</i>	M. Memenza-Zegarra
134	Mind your root-mates: traits to infiltrate in the rhizosphere ecosystem	JJ Sanchez Gil
136	Potential of the co-inoculation <i>Rhizobium</i> - <i>Bradyrhizobium</i> to improve the productivity of common bean (<i>Phaseolus vulgaris</i> L.)	EC Jesus
138	Inside the tripartite seed-endophyte-environment interaction by combining FTIR spectroscopy and SEM	SH KIM
140	Effect of different promoting plant growth bacteria on the reduction of nematode infection in tomato plants	D. Zúñiga-Dávila
142	Isolation and biodiversity of heavy metal tolerant endophytic bacteria from halotolerant plant species located in coastal areas of Karachi, Pakistan	IR Perveen
144	Effect of long-term application of compost and biochar on cowpea rhizosphere microbial communities and physicochemical properties of soil	MA Khan
146	Metabolite profiling of soybean root exudates under different potassium status	T Tantriani
148	Metabolome analysis of root exudates of wild and cultivated rice under phosphorus deficient condition	C Matsushima
150	Rhizosphere microorganisms and plant stress-resistance in Antarctica	F. Gutzwiller
152	Microbial biomass and enzymatic activity in the rhizosphere of organically and conventionally managed orchard crops cultivated in arid soil	KD ALOTAIBI
154	Elevated carbon dioxide increases soil organic carbon in rice paddies	QC Wu
156	Effects of halophilic bacterial inoculants on the development of a salt-sensitive plant	A Cunha
158	Impact of individual and combined abiotic stresses on plant growth promoting bacteria	MA Tufail
160	Does root mucilage play a role in salinity tolerance?	M Ford
162	The Effect of Combined Salinity and Low Root Zone Temperature on Tomato Rootstocks	NW Waldman
164	Phylogenetic diversity of psychrotolerant rhizobacteria associated to <i>Chenopodium quinoa</i> from Peruvian Andean highlands	D. Zúñiga-Dávila
166	Interspecific phosphorus facilitation via rhizosphere processes in herbaceous species under defoliation and phosphorus addition	RP Yu
168	Grazing intensity modify micro-food webs via altering plant roots in the Tibetan alpine meadow	B Wan
170	Evaluation of colonizing ability of five temperate rainforest Proteaceae species growing in young volcanic substrate	M. Delgado
172	POEM: a grassland field experiment to shed light on the belowground mechanisms of priority effects	BM Delory
174	Smooth brome invasion effects soil structure and ecosystem services	J Bell
176	Integrating plants, roots, and soil nematodes to restore northern prairie ecosystems	R Otfinowski
178	Mycorrhizal fungi abundance and composition associated with plant roots across the Atlantic region	LP Comeau
180	Neighbour diversity affects the rhizosphere microbiome assemblages of tree species pairs in subtropical forest ecosystem	B Singavarapu
182	Cadmium concentration in barley rhizosphere in a Cd contaminated soil and the role of PGPR in plant tolerance to contamination	H. besharati
184	Arsenic speciation and transport in the rhizosphere of an arsenic-hyperaccumulating fern	S Matzen

186	The GREENER project: Rhizoremediation Coupled with Multi-system Approaches for Bioremediation.	K Germaine
188	Transferability of radiocesium contained in buried root mat contaminated by Fukushima Dai-ichi Nuclear Power Plant accident	Y U
190	Willow root and biomass growth improvement by the liming of heavily contaminated soil	P. Tlustos
192	Willow Ability to Remove Polycyclic Aromatic Hydrocarbons (PAHs) from Soil Amended by Biomass Fly Ash	Z. Kosnar
194	Potential for plant growth promotion of rhizobacteria associated with salix and eleocharis plants growing in petrochemical contaminated soils	F AlOtaibi
194	Rhizosphere microorganisms in continuous cropping tomato field identified by Amplicon-based metagenomics as minor pathogen candidates	S Li
196	Isolation of a 1,4-dioxane degrading pseudomonas spp. from the rhizosphere of poplars with bioremediation potential	S Keuning