LIST OF POSTERS

THURSDAY 28.4.

Microbial Nutrient Cycling and Biogeochemistry

69 Mohd Faizal Ahmad Ramli - The effect of using different quality and quantity of carbon component on the acid phosphatase enzyme activity in peat
70 Rozelin Aydin - Identity and ecophysiology of bacteria producing GDGT membrane lipids
71 Amanda Barbosa Lima - Influence of land use change on denitrifier community composition in Terra Preta de Índio (Amazonian Dark Earth) soils of Central Amazonia
72 Per Bengtson - Rhizosphere priming effects revealed by coupling of C and N turnover
73 Christoffer Berner - How does tree nutrient status affect ectomycorrhizal growth and community structure
74 Sergey Blagodatsky - Fungi-to-bacteria ratio affects N2O emission from soils: experimental evidence and modelling
75 Gunnar Börjesson - Microbial changes in top- and subsoil in along-term soil organic matter experiment revealed by phospholipid fatty acid analysis
76 Christian Brandstätter - Early beech litter decomposition responds to N form and concentration
77 David Bru - Determinants of the distribution of nitrogen-cycling microbial communities at the landscape-scale
78 Else Bünemann-König - Microbially mediated P cycling in a permanent grassland soil as affected by mineral P fertilization
79 Thomas DeLuca - Biological nitrogen fixation greatly explains ancient sustained use of alluvial meadows and wetlands
80 Magnus Ellström - Where does the Nitrogen go? -Uptake and storage of ammonium in the ectomycorrhizal fungi Paxillus involutus.
81 Hans Göransson - Soil bacterial growth and nutrient limitation along a chronosequence from a glacier forefield
82 Nehad Gumgumjee - Antimicrobial activity and impact of propolis on molecular nature and proteins pattern of Candida albicans
83 Ji-Zheng He - Abundance and composition of ammonia-oxidising bacteria and archaea in selected Chinese soils
84 Anne-Sophie Hesse - Effects of inorganic nutrients bioavailability on bacterial and microalgal communities during sediments drying
85 Adrian Ho - Aging well: methane oxidation and methane oxidising bacteria along a chronosequence of 2000 years.
86 Jaroslav Hynšt - Efficient transformations of soil nitrogen in contrasting ecosystems
87 Edith Joseph - Novel application of Beauveria bassiana in transformation of toxic metals.
88 Anna Karlsson - The role of archea in the turnover of root and mycorrhizal exudates in soil
89 Zuzana Kolářová - Fungal succession in litter of Norway spruce (Picea abies) revealed by cultivation method and T-RFLP
90 Helen Liiva - Fine-root decomposition affected by heavy metals in forest soils
91 Catarina Magalhaes - Impact of Copper on the Diversity, Abundance and Transcription of Nitrite and Nitrous oxide reductase genes in urban estuarine sediments
92 Gaëtan Martin - Role of bacteria and fungi on pH shift in soil under the influence of calcium oxalate.
93 Theresa McHugh - The Impact of Monsoon Moisture on Soil Microbial Populations and Nitrogen Mineralization
94 Pauline Mele - The metagenomics of an Australian arid zone soil. Resolving diversity and functional differences in the microbial communities in a land-use comparison.
95 Laura Meredith - Investigations into the Atmospheric H2 Energetic Fertilization of Soil Microorganisms in a Forest Ecosystem
96 Ember Morrissey - Linking resource availability to the structure and function of microbial nitrate reducers in freshwater wetlands
97 Maria Niklińska - Carbon and nitrogen mineralization in soils differently polluted with heavy metals
98 Levin Pal - Tight coupling of peat nitrogen and organic carbon cycle is diverse in relation to temperature
99 Katharina Palmer - Impact of cryoturbation on denitrifier community structure and activity in N2O-emitting arctic permafrost peat soil
100 Tim Philpott - Transfer of inorganic and organic 15N to woody debris via mycelial cords of the wood decay fungus Hypholoma fasciculare.
101 Jessica Poirel - Bacterial expression of metal transporters as a biomarker of metal bioavailability in soils.
102 Kim Schneider - Phosphorus availability in organic dairy farm soils: A closer look at the role of soil biology
103 Nejc Stopnišek - Influence of acidity on the abundance and diversity of soil Burkholderia populations
104 Miloslav Šimek - Distribution of methanogens and aerobic methanotrophs in soil profile of Finnish boreal acid sulphate soil
105 Catarina Teixeira - Rates and Environmental Controls of Anaerobic Ammonium Oxidation in Estuarine Sediments

106 Alexander Tischer - Effects of DOM on mineralization processes and microbial community structure in managed and abandoned pasture soils in Southern Ecuador
107 Vladimir Vujanovic - Fungal endophytes confer drought and heat tolerance in wheat
108 Yucheng Wu - Long-term field fertilization significantly alters the community structure of ammonia-oxidizing bacteria rather than archaea in a paddy soil
109 Limei Zhang - Effect of Nitrogen Loading Levels on the Abundance and Composition of Soil Ammonia Oxidizing Prokaryotes in a Semiarid Temperate Grassland

Fungi in the Soil Microbial Community: Symbiosis, Competition, Antagonism

110 Pablo Cornejo-Rivas - Influence of plant cover on the composition and structure of the arbuscular mycorrhizal fungal community in a simulated semi-arid Mediterranean environment
111 John Davison - Arbuscular mycorrhizal fungal communities in plant roots are not random assemblages
112 Anna Egorova - Stress tolerance of Paecilomyces lilacinus (Thom.) Sampson in extreme environments
113 Steffi Formann - GST activity in the hyphal world
114 Marcela Franco Correa - Phosphate mineralizer Actinomycetes involved in root interaction of Glomus sp. and white clover
115 Rukaia Gashgari - Isolation, Identification and Distribution of Halophilic Fungi
116 Leyla Hassani Rezaei - Influence of tripartite symbiosis on growth and water relations of alfalfa under drought stress in sterilized soils
117 Hana Hršelová - Summer truffle (Tuber aestivum Vittad.) - conservation status, genetic diversity and distribution in Czech Republic
118 Martina Janoušková - Discrimination and quantification of two Glomus intraradices isolates in plant roots by Real-Time PCR assays in mitochondrial DNA
119 Petr Kohout - Endophytic fungi in the roots of submerged aquatic plants
120 Maria Korneykova - The complexes of microscopic fungi in the soil polluted by airborne aluminium plant emission
121 Philippe Lemanceau - Description of a strategy for analyzing the feedback loop of the interactions between plants, arbuscular mycorrhizal fungi and bacteria
122 Cajsa Lithell - Are ectomycorrhizal fungi a single functional group?
123 Tamara Malinová - Saprophytic Sebacinales, clade B, form mycorrhiza with Neottia ovata and N. cordata (Orchidaceae) in different habitats on a broad geographic scale.
124 Olga Marfenina - Global warming and potentially pathogenic microfungi in soils
125 Adalia Mergulhao - Restriction profiles of amplified ribosomal DNA in species of mycorrhizal fungi
126 Michiel Op De Beeck - Heredity of Heavy Metal Tolerance in the Ectomycorrhizal Basidiomycete Fungus Suillus luteus
127 Mirka Petrankova - Determination and evaluation of free and total ergosterol in soil.
128 Francesc Prenafeta Boldú - Biodiversity and ecology of soil fungi in a primary succession of a temperate coastal dune system
129 Tomislav Radic - Varying efficiency of mycorrhizal establishment in pot cultures – plant hosts' role
130 Max Bernhard Rudnick - How do mycophagous bacteria find their fungal bait?
131 Yury Shneyder - Metabolic Stability of Soil Saprophyte Trichoderma spp. in Association with Other Soil Fungi
132 Zoe Smith - Functional diversity of Platanthera orchid mycorrhizas
133 Radka Sudová - Arbuscular mycorrhizal symbiosis on serpentine soils: the effect of native fungal communities on different Knautia arvensis ecotypes
134 Zuzana Sýkorová - The time-course development of the co-inoculated native and non-native arbuscular mycorrhizal fungi in the roots of Phalaris arundinacea in a greenhouse experiment
135 Jaroslav Šnajdr - Saprotrophic basidiomycete mycelia and their interspecific interactions affect spatial distribution of extracellular enzymes in soil
136 Mika Tarkka - Mushrooms – site for symbiotic interactions between soil yeasts, bacteria and filamentous fungi?
137 Martin Vohnik - Distribution, morphological diversity and mycobiont identity of root-fungus associations in European bilberry at twelve contrasting sites in Norway
138 Petra Weißhaupt - Nitrogen metabolism of wood decomposing basidiomycetes and their interaction with diazotrophs as revealed by IRMS

Interactions among Micro- and Macroorganisms in Soils

139 Xu Cheng - Regulator-based genome mining for novel bioactive compounds in soil bacteria
140 Sandrine Demaneche - Likelihood of horizontal gene transfer between transplastomic tobacco and plant associated bacteria
141 Rima Franklin - The effects of hydrology and vegetation on microbial community structure and function in the sediments of freshwater wetlands
142 María Gómez Brandón - Effects of epigeic earthworms on the structure and activity of microbial decomposer communities

143 Zalán Homonnay - Changing of faecal bacterial communities under different feeding conditions of the Judean mole rat (Spalax judaei) (Rodentia, Spalacinae)
144 Anna Jonsdottir - Characterization of the non-phototrophic bacterial symbiomes of Icelandic lichens
145 Mirkka Kotiaho - Actinobacteria communities in boreal bogs
146 Anna Koubova - Methanogenic community in cattle-impacted soil incubated with Eisenia andrei earthworms
147 Saisamorn Lumyong - Isolation and Screening of the Nematocide Producing Microorganism from Plant-Parasitic Nematode Infested Soil in Thailand
148 Maria do Carmo Lyra - molecular characteristics of rhizobia isolated from nodules of peanut grown in Brazilian soils
149 Gincy Mathew - The occurrence of Bacillus species and their potential roles in fungus comb of Odontotermes formosanus (Fungus growing black subterranean termite)
150 Rashid Nazir - A cosmopolitan Burkholderia terrae equipped as universal migrator along different fungal hyphae
151 Attila Németh - Comparison of caecal bacterial communities of different Eurasian mole-rat species (Rodentia: Spalacinae)
152 Cindy Prescott - Patterns in forest soil microbial community composition across a range of regional climates in western Canada
153 Petra Prouzová - Interactions between microbes and plants in PCB contaminated soil
154 Anuliina Putkinen - Diversity of active methanotrophic bacteria in Sphagnum mosses growing on a peatland chronosequence
155 Anja Ramm - Earthworms Stimulate the Microbial Degradation of 2,4-DCP in Soil
156 Maria Luiza Silva - Molecular characterization of endophytic bacteria associated with the culture of forage cactus (Opuntia spp.)
157 Yosef Steinberger - The impact of desert shrubs on soil microbial diversity
158 Jan Dirk van Elsas - Exploring novel bacterial biopolymer-degrading functions - diversity and abundance of chitinases in different habitats
159 Laure Weisskopf - Burkholderia species are major inhabitants of white Lupin cluster roots

Microbes in the Changing Environment: Global Climate Change and Soil under Human Impact

160 Ana Catarina Afonso - Effect of Pinus halepensis thinning on soil microbial community in a revegetated limestone quarry
161 Ademir Araújo - Degradation and restoration of degraded lands and their effects on soil microbial biomass in Northeast Brazil
162 Martin Bartuska - Respiration of deep subsurphace miocene sediment and microbial community changes early after excavation
163 Marianne Benesch - Using stable isotope labeling to trace SOM decomposition and transformation by microbes under different silvicultural managements in the Munessa forest, Ethiopia
164 Elizabeth Bent - Soil bacterial community composition changes in response to ectomycorrhizal exudates produced under ambient and elevated levels of CO2
165 Johanna Birgander - Seasonal variation in microbial biomass, growth rates and microbial community composition in a sandy
166 Aimeric Blaud - Impact of acute nitrogen deposition on microbial community structure and abundance in the Arctic tundra soil
167 Cécile Caupert - In situ and long-term evolution of fungal abundance and community structure in a polycyclic aromatic hydrocarbon and heavy metal contaminated soil: effects of plant cover and desorption
168 Nicolas Chemidlin Prevost-Boure - Soil Fungal Communities Ecology: a Biogeographical Approach
169 Marcin Chodak - Estimation of microbial properties in mine soils using NIR spectroscopy
170 Jongsik Chun - Variation in soil bacterial flora within and between habitats in semi-arid Mongolian steppe margins
171 Sarina Claassens - Microbial community function and structure in rehabilitated asbestos and coal discard sites
172 Cristina Cruz - Responses of the nitrifying community to nitrogen additions in a Mediterranean ecosystem.
173 Anne Daebeler - Disentangling the effects of enhanced nitrogen deposition and temperature on ammonia-oxidizing archaeal communities?
174 Emelia DeForce - Effect of land-use and activity on potential ammonia-oxidizing thaumarchaeota and bacterial communities in Costa Rican tropical soils
175 Teresa Dias - Short-term responses of soil microbial communities to N enrichment in a Mediterranean ecosystem.
176 Lur Epelde - How does the interaction between pollution and other sources of environmental stress affect soil health?
177 David Fernández-Calvi?o - pH effects on soil bacterial community growth
178 Marina Fernandez-Delgado Juarez - Influence of wood ash on ammonia oxidizing bacteria and archaea in a grassland soil.
179 Nadezda Fokina - Biological recultivation of the soil contamination with oil products at high latitudes
180 Georgios Giannopoulos - The effect of pH on nitrous oxide emissions and nitrous oxide reductase from soil bacteria (Paracoccus denitrificans).
181 Osnat Gillor - Linking the active and dormant microbial communities structure to soil moisture in arid environments
182 Milan Gryndler - Changes of soil microflora associated with simulated climatic change

183 Ute Hamer - Response of soil microorganisms to land-use change in different ecoregions
184 Merian Haugwitz - Five years of increased temperature and drought affect soil microorganisms in a temperate heath ecosystem
185 Helen Hayden - Microbial community composition changes under elevated CO2 and warming in a native vegetation grassland
186 Galit Hermann - Sex hormones – soil-microbial community interaction in a Mediterranean agroecosystem
187 Jakub Hofman - Effects of winter road salting on soil microorganisms at grassland and forest site
188 Anna Ivanova - Functional structure of soil microfungi in urban ecosystems (for example city Moscow)
189 Jiří Jirout - Cattle overwintering governs changes of fungal communities in upland pasture soil
190 Aurore Kaisermann - How do drought and rain events impact soil microbial communities greenhouse gas production?
191 Eva-Maria Kastl - Response of functional microbial community size and activity to nitrogen fertility gradients in the rhizosphere of subalpine grasses
192 Beata Klimek - Zinc and copper effect on soil microbial community structure the rhizosphere of the Scots pine and the bulk soil.
193 Dirk Krueger - Microbial communities of barren terrestrial surfaces from previous mining or other causes
194 Sven Marhan - The influence of climate change on N-cycling microorganisms in soil
195 Magalí Martí Generó - Bacterial and archaeal communities in hollow hummock gradients in peatlands receiving different levels of nitrogen deposition.
196 Frantisek Nerud - Microbe-catalysed processes in soil polluted with a mixture of organic xenobiotics
197 Alexia Pailler - Assessing Mediterranean forest soil microbial community vulnerability to water stress across a bioclimatic gradient of aridity
198 Ansa Palojärvi - Reduced tillage changes fungal diversity and functioning in arable soil
199 Jiří Petrásek - Heterotrophic bacterial communities of Miocene lacustrine sediment
200 Ines Petric - Response of the PCB-contaminated soil bacterial community to applied bioremediation treatments
201 Barbara Pivato - Genetic structure and diversity of bacterial communities as affected by spatiotemporal variations of drought stress conditions is Sahelian region
202 Seth Pritchard - Production, standing crop, and survivorship of mycorrhizal root tips in a loblolly pine forest exposed to free-air-CO2-enrichment for a decade: Interactive effects of soil N availability
203 Judith Pump - Analyzing plant-derived methane emission and archaeal community composition in paddy soil via stable isotope labeling
204 Lionel Ranjard - Biogeographical Patterns of Soil Molecular Microbial Biomass as Influenced by Soil Characteristics and Management
205 Salvador Rodríguez Zaragoza - Effect of Medicago sp. Root Zone on Trophic Structure of Naked Amoebae Community after an Intense Pulse of Contamination with Combustoleo
206 Stefan Ruyters - Co-tolerance to zinc and copper of the soil nitrifying community and its relationship with the community structure
207 Olga Ruzova - Impacts of temperature regime on microorganisms in cryolithozone
208 Mirjam Selzer - Alpha- and Gammaproteobacteria are Dominant Denitrifiers in Soils as Indicated by Isolation and Next Generation Sequencing
209 Chen Sherman - Litter decomposition – microbial-community associations along a rainfall gradient
210 Astrid Stacheter - Methylotroph Diversity in Grassland and Forest Soils As Revealed by Cultivation and Pyrosequencing of Structural Genes
211 Anna Stefanowicz - Soil microbial communities are influenced by soil fertility, herbaceous vegetation and metal pollution in the Pb-Zn mining and smelting area (Olkusz, S Poland)
212 Zuzana Stehlíková - Comparison of the incidence of tetracycline resistance genes between pristine and agricultural manured and non-manured soils
213 Mingxia Su - Influence of copper contamination on nitrification and denitrification pattern in arable soils after freezing and thawing
214 Bo Svensson - Bacterial and archaeal communities in hollow – hummock gradients in peatlands receiving different levels of nitrogen deposition
215 Adrian Unc - Community level microbial diversity, nitrogen cycling potential, and physiological profiles in arid lands affected by natural gas extraction activities.
216 Michaela Urbanová - Bacterial communities in topsoil during spontaneous succession in spoil heaps after brown coal mining
217 Maria Vásquez Murrieta - ANALYSIS OF Siderophore producers free-living rhizospheric bacteria isolated of plant growing on mine tailings in central Mexico
218 Tomáš Větrovský - Involvement of actinobacteria in organic matter transformation in heavy metal contaminated soils
219 Xavi Vila - The microbiota of unpolluted Mediterranean soils faces up chlorophenols: evidences of resistant strains with potential for bioremediation
220 Karel Waska - Hyperalkaline (pH>12) aquifers of Calumet wetlands, South Chicago, IL, USA: Biodiversity and Remediation Study

FRIDAY 29.4.

Soil Organic Matter Decomposition and Enzymes in the Soil Environment: From Molecules to Communities

221 Mariarita Arenella - A multidisciplinary approach to study proteins-humic substances interactions
222 Daniel Arotupin - Screening of fungal isolates from Nigerian tar sand deposit in Ondo State for novel biocatalysts
223 Uthra Balasubramaniyan - Diversity of lipase producing bacterial strains of oil contaminated soils and their hydrolytic activity
224 Ivana Eichlerová - Laccase activity of soils: selection of the optimal enzyme assay conditions
225 Yili Huang - Potential roles of quorum sensing and biofilm formation in biodegradation of PAHs by microbial community from soils
226 Maria Kupryashina - Purification of the bacterial Mn-peroxidase in the rhizospheric bacterium Azospirillum brasilense
227 Eiko Kuramae - Unraveling maize litter decomposition by 18S rRNA and metatranscriptomic analyses of soil-borne microorganisms
228 Gwenaëlle Lashermes - Influence of plant residue quality on enzymes dynamics: Importance of enzyme distribution between soil and residue.
229 Jana Maková - Monitoring of microbial biomass and respiration activities in Slovak soil types
230 Heidy Schimann - Nutrients limitation of decomposition in a tropical rainforest of French Guiana
231 Leila Qasemian - Potential of anthracene detoxification through biotransformation: a study of indigenous microbial activities from a Pinus halepensis litter situated in a Mediterranean coastal area
232 Francois Rineau - Degradation of organic matter by the ectomycorrhizal fungus Paxillus involutus - substrate modification and global patterns of gene expression
233 Firoz Shah - Proteases secreted by the ECM fungus Paxillus involutus growing on organic N sources
234 Eileen Schuetze - Growth of Streptomyces mirabilis P16B1 in heavy metal contaminated soil and impact to Soil Organic Matter formation
235 Angela Straathof - Is Disease Suppression of Soil-borne Plant Pathogens Reflected in Properties of Dissolved Organic Matter?
236 Martina Štursová - Analysis of cellulose degrading microbial community in mountainous spruce forest soil by stable isotope probing
237 Elena Vetchinkina - Phenol oxidase activity of Azospirillum bacteria and its relationship with endogenous lectins
238 Jana Voriskova - Diversity of fungal genes encoding enzymes catalysing decomposition processes in forest topsoil

Agricultural Soils: Biodiversity and Functioning

239 Nuria Bonilla - Suppressive organic amendments of avocado root rots: effect on microbial diversity and activities of soil and rhizosphere
240 Lamia Bouziri - Impact assessment of irrigation by treated wastewater on soil bacterial genetic structure diversity of Nabeul-Tunisia irrigated areas
241 Fiona Brennan - Impact of microbial community structure on suppression of E. coli, Salmonella and Listeria spp. in a sandy-loam agricultural soil
242 Maria Julia Brossi - Diversity and quantification of dioxygenases genes (bph) in Amazonian “Terra Preta” Anthrosols
243 Yanelly Cabrera - Structure of cellulolytic bacterial community in two different depths of Chinampa soil and its capacity of cellulose degradation
244 Martina Caplice - Biological resilience in Irish arable soils under different tillage practices
245 Yazmin Carreon-Abud - Seasonal changes of microbial population from the rizosphere of avocado plants, in orchards of organic management and orchards of traditional management, in Michoacán, México.
246 Hector Castro - Effect of switchgrass cultivar type, nitrogen fertilization and land management in microbial abundance and processes
247 Antonis Chatzinotas - How does land use influence protistan predators of bacteria?
248 Dominika Chmolowska - The differences in the structure of soil microbial communities in two types of grassland ecosystem: fallows and meadows
249 Maude David - Impact of soil, plants and growth conditions on the Arthrobacter chlorophenolicus proteome.
250 Marjan de Boer - Integrated approach in controlling soil-borne diseases in ornamental crop production
251 Montserrat Díaz-Ravina - PLFA and PICT analyses to detect microbial community changes in Cu-contaminated vineyard soils
252 Murat Durmus - Microbial biomass carbon and organic carbon content in soil aggregates from different soil types
253 Jonas Ghyselinck - Screening for antagonistic and plant growth promoting properties in bacteria isolated from the Central Andean Highlands
254 Silvia Gschwendtner - Effects of a genetically modified potato line with altered starch metabolism on carbon fluxes within the plant-soil system and on microbial community structure and function in the rhizosphere
255 Ahlam Hamim - Isolation and morphological characterization of arbuscular mycorrhizal fungi colonized by potato (Solanum Tuberosum L.) roots cultivated under different cropping systems in north of Morocco.
256 Petra Havlíčková - Dissemination of tetracycline-resistance determinants from cattle excrements to the soil

257 Petr Heděnec - Effect of large scale production of Rumex Uteusa on microbial activity and composition of soil microbial community
258 Michael Hemkemeyer - Impact of ortho-phenylphenol on soil bacteria and processes
259 Laetitia Herrmann - Is genetic diversity of native rhizobia nodulating promiscuous soybean variety (TGx 1740-2F) affected by cropping system or applications of N and culture residues in Meru South - Kenya?
260 Soňa Javoreková - Mycological characterization of soil in long term fold–grazing pastures in national parks of Slovakia
261 Prabhat Jha - Assessment and Characterisation of Associative Mineral Phosphate Solubilising Bacteria Isolated from Plants Growing in Zinc Mine
262 Dragana Josic - Intercropping influence of radish (Raphanus sativus) on indigenous rhizobia diversity in nodules of common beans (Phaseolus vulgaris)
263 Heli Juottonen - Cropping system diversity affects denitrification activity, N2O flux and bacterial communities in agricultural soil
264 Ondřej Komžák - Characterization of strains antagonistic to pathogenic streptomycetes causing common potato scab
265 Elmarie Kotze - Effect of land use on soil humic substances in different semi-arid agro-ecosystems in the Free State Province, South Africa
266 Martina Kyselkova - Antibiotic resistance and presence of tetracycline resistance determinants tet(V) and tap in diverse fast-growing mycobacteria from agricultural soils and clinical isolates
267 Jean-Christophe Lata - Impact of the use of wastewater for irrigation of cultivated plots on the soil microbiological quality in semi-arid zone (Tunisia): approaches at the plot and catchment area scales
268 Cristina Lazcano - Short-term effects of the integrated use of organic and inorganic fertilizers in soil microbial communities and biological quality
269 Eliana Lemos - Bacterial diversity from soils of sugarcane crop and native forest in Sao Paulo State Brazil
270 Ana Lopes - Influence of rice plants (Oryza sativa) on the cultivable microbial population and functional activity of bulk paddy soil.
271 Claudia Lüke - Unraveling the pmoA diversity in paddy soils
272 Dror Minz - Irrigation with treated wastewater shifts microbial community structure and function in soil
273 Julia Moll - Temporal and spatial variation of general fungal and arbuscular mycorrhizal communities in a maize field
274 Monica Odlare - Organic wastes as fertilizer – focusing on sewage sludge, compost and biogas residues
275 Elisa Pellegrino - Composition and structure of arbuscular mycorrhizal fungal communities originating from a low-input agricultural soil as shown by T-RFLP and sequence analysis
276 Michele Pereira e Silva - Abundance, diversity and functional role of ammonia oxidizing communities across Dutch soils
277 Marijana Pesakovic - Influence of integrated and conventional production systems on development of soil microorganisms and strawberry field
278 Karin Potthast - Land-use change and pasture-fertilization affects soil microorganisms and nutrient cycling in a tropical mountain rainforest region of Southern Ecuador
279 Jesse Sadowsky - Carbon and nutrient cycling and beneficial microorganisms in organic and conventionally managed blueberry soils in Michigan, USA.
280 Zuzana Samková - Characterization of soil bacterial communities suppressing or promoting common potato scab
281 Zuzana Selešiová - Effects of benomyl and prometryn on soil microorganism diversity and activity in grazing-degraded soil
282 Hannes Schmidt - Investigation of microorganisms in characteristic root zone areas (RZA) of a paddy soil
283 Hong-Gyu Song - Effect of application of rhizobacteria on growth promotion of Xanthium italicum and bacterial community in barren lakeside soil
284 Andrew Spiers - Surfactants expressed by soil Pseudomonas spp. alter local water distribution suggesting a non-biological role for these compounds.
285 Anastasia Starodubtseva - Soil microbial communities under sown grasslands inoculated with symbiotic and associative nitrogen fixators in Central Non-Chernozem region
286 Agnieszka Szturc-Koetsier - The baseline across soils: transformation of plant-borne organic matter
287 Dung Tran - The effect of crop rotation on the structure of the bacterial community colonising rice straw residues in rice cultured soil in the Mekong delta of Vietnam
288 Menno van der Voort - Discovery of novel microorganisms and antimicrobial traits in natural disease suppressive soils
289 Allana Welsh - Microbial diversity affects soil functional operating range
290 Lina Wong - Genetic diversity of pyrrolnitrin (PRN) biosynthesis in bacteria isolated from Amazonian soils
291 Hasan Yilmaz - Naturally growing geophytes in cold climate regions: A case study from Turkey

Microbial Diversity and Processes in Forest Soils

292 Emily Austin - The Temperature response of fungal activity varies across stages of wood decomposition.
293 Adam Bahr - Growth of ectomycorrhizal fungi along a nitrogen deposition gradient and its effect on nitrogen leakage
294 Jiří Bárta - Response of denitrifying bacteria on nitrate addition in acidified spruce forest soil
295 Fabiana Cannavan - Microbial community structure in the Amazonian Dark Earth soils by pyrosequencing analyses: the role of biochar in the N-cycling and sustainability of tropical soils
296 Jim Germida - Diversity of ammonium oxidizing bacteria in relation to ammonium and nitrate fluxes in harvested forest soils of the Boreal Plain, Alberta Canada

297 Erika Gomoryova - Relationships between soil microbial community, vegetation and abiotic environment in a temperate virgin forest
298 Lelde Grantina - Monitoring of Seasonal Changes of Northern Temperate Zone Spruce Forest Soil Microbial Populations
299 Sue Grayston - Microbial and faunal communities in coastal forests of British Columbia and their response to variable-retention harvesting
300 Jessica Gutknecht - Soil microbial and nematode communities in response to different levels of temperate tree diversity
301 Veronika Hrdinková - Antibiotic production and resistance in actinobacteria at soil site with a long-term heavy metal contamination
302 Dalia Janusauskaite - Impact of native Pinus sylvestris L. and alien Pinus mugo needle litter decomposition on soil microbial properties of young soils formed from dune sands in Lithuania
303 Jindřich Karásek - Concurrent occurrence of bacteria, actinobacteria and selected genes of secondary metabolites along a gradient of differing redox conditions in a fishpond littoral
304 Mónika Knáb - Studies on soil microbial communities from two different Hungarian karstic areas
305 Ondřej Koukol - Shifts in microfungal community during the snow-melting; a case study in pine litter
306 Ariana Kubartova - New insights into wood-fungi ecology
307 Marcio Lambais - Artificial neural network modeling of microbial community structures in soils from the Atlantic forest of Brazil
308 Cendrella Lepleux - Taxonomic and functional characterization of the mineral associated bacterial communities in forest soil.
309 Didier Lesueur - The absence of significant influence of soil properties on the structure of fungal communities across land-use types in Mau Mount (Kedowa, Kenya)
310 Agnieszka Medyńska-Juraszek - Composition and activity of the microbial communities in forest floor exposed to deposition from copper industry
311 Lucas Mendes - Functional gene diversity in Amazonian Dark Earth soils and their black carbon
312 Shinjini Mukherjee - Bacterial response to oil in forest soil planted with aspen (Populus): abundance of degraders with structural and functional diversity display a dynamic treatment specific microbial process
313 Astrid Näther - Identification of soil bacteria assimilating carbon from 13C-labelled wheat residue by RNA-based Stable Isotope Probing
314 Acacio Navarrete - Real-Time PCR detection of Acidobacteria and Verrucomicrobia in bulk and soybean rhizosphere soils from Southeastern Brazilian Amazon arable fields
315 Laiye Qu - Effects of plant coverage on microbial community and soil aggregates in the Upper Minjiang River arid valley
316 Nicholas Rosenstock - The role of soil chemistry and parent material in determining microbial community composition and activity.
317 Mathieu Santonja - Does plant diversity affect microbial communities associated with leaves decomposing in a Mediterranean deciduous forest?
318 lingling Shi - Plant litter manipulations change forest soil fungal communities, but not those of bacteria
319 Anna Temraleeva - Toxicity of lead nitrate and acetate to the soil alga Chlorella mirabilis in relation to the medium composition
320 María Touceda-González - Bacterial communities in rhizosphere of different populations of the Ni-hyperaccumulator Alyssum pintodasilvae and the metal-excluder Dactylis glomerata growing in serpentine soils
321 Stephane Uroz - Mineral weathering by forest soil bacterial communities: from function to diversity
322 Lucia Žifčáková - Identification of cbhI cellobiohydrolase genes in litter-decomposing fungi and in the spruce forest soil

Microbial Biodegradation Processes

323 Yeonghee Ahn - Indigenous perchlorate-removal microorganisms in industrial complexes in Korea
324 Tobias Arnstadt - Patterns of lignin degradation and oxidative enzyme secretion by different wood- and litter-colonizing basidiomycetes and ascomycetes grown on beech wood
325 Thomas Banitz - Bacterial dispersal networks enhance biodegradation in heterogeneous environments
326 Clarissa Booth - Pathogenic Prion Protein Degradation by Bovine Manure Proteases
327 Maria Brennerova - Who will clean up the environment from polychlorinated biphenyls?
328 Monika Čvančarová - White rot fungi for the degradation of xenobiotics – screening of fungal strains for most efficient bioremediation of antibiotics, drugs, and ingredients of personal care products
329 Domenico Davolos - Potential bioremediation of phenol contaminated soils by the novel phenol degrading Acinetobacter sp. MO (LMG 25813T) and Acinetobacter sp. G16 (LMG 26030T).
330 Tinatin Doolotkeldieva - Microbial community structure in petroleum contaminated and uncontaminated soil of mountain ecosystem.
331 Sebastian Elgueta - Ligninolytic enzymes activities of white-rot fungus Anthracophyllum discolor for biodegradation of atrazine
332 Susan Foss - Influence of Fungal Networks on the Bioavailability of Polycyclic Aromatic Hydrocarbons to Bacteria in Water Unsaturated Environments
333 Miriam Guivernau Ribalta - Bacterial-fungal community dynamics during the bioremediation of an aged hydrocarbon-contaminated soil
334 Franz Hadacek - Polysaccharide degradation in sterile and non-sterile soils
335 Bjoern Hoppe - Wood decay and the diversity of wood-inhabiting fungi along forest management gradients in the German Biodiversity Exploratories
336 Marcus Horn - Sphingomonadaceae (Alphaproteobacteria) are Key 4-Chloro-2-Methylphenoxyacetic Acid Herbicide Degraders in Soil and Drilosphere

337 Steffen Kolb - Redox Potential Drives Activity of Cellulolytic and Saccharolytic Soil Bacteria
338 Marek Koutny - Biodegradation of synthetic polymers: application of TGGE
339 Zdena Křesinová - In vivo and in vitro biodegradation of 17?-ethinylestradiol by the ligninolytic fungus Pleurotus ostreatus
340 Martin Kucklick - Unexpected causes of limited hydrocarbon degradation in a soil poor in nutrients
341 Mary-Cathrine Leewis - Investigating carbon flow through a PCB-degrading soil community using stable isotope probing
342 Salvador Lladó - Effect of bioaugmentation with ligninolitic fungi on Polyciclic aromatic hydrocarbons-biodegradation and on microbial community in an aged creosote-polluted soil
343 Tomáš Macek - MS MALDI-TOF-based screening of cultured biphenyl-degraders from horseradish rhizosphere soil contaminated by polychlorinated biphenyls
344 María Markúsdóttir - The microbial ecology of Glerá, a sub-Arctic river, from pristine source to contaminated estuary.
345 Daryl Moorhead - Untangling microbial and litter quality controls on decomposition for a mechanistic model of decay
346 Milan Muzikář - The effect of plant-pretreatment on the PCB degradation during composting
347 Aura Nousiainen - Validation of quantitative PCR for atrazine degradation genes in two different soils
348 Jessica Olcina Ibánez - Earthworms modify microbial community structure and accelerate decomposition of grape marc during vermicomposting: Part I
349 Margreet Oosterkamp - Physiology of Alicycliphilus denitrificans strain BC, a bacterium that can degrade benzene with chlorate
350 Iva Pacovská - Microbial degradation of chlorinated pesticides
351 Martina Plačková - Ligninolytic enzyme production by Trametes versicolor during PCB degradation
352 Svetlana Prudnikova - Biodegradation of polyhydroxyalkanoates by soil microorganisms
353 Camille Secher - Quantification of the PCB-degrading bacteria Burkholderia xenovorans LB400 in contaminated soils by a real-time PCR (RT-PCR) targeting an ITS sequence.
354 Stephan Schulz - Abundance, activity and diversity of alkB harbouring bacteria in different soil layers during plant litter decay
355 Michal Strejček - Study of microbial diversity in soil contaminated by PCB as a consequence of plant presence
356 Petr Štursa - Identification of cutlivable and non-cultivable rhizosphere bacteria from long term contaminated soil by polychlorinated biphenyls
357 Kateřina Svobodová - Microbial diversity and antifungal activity during composting of organic waste
358 Francisco Javier Vilarino Castro - Earthworms modify microbial community structure and accelerate decomposition of grape marc during vermicomposting: Part II
359 Blanka Vrchotová - Cooperation of plant and bacteria on chlorobenzoic acids metabolisation
360 Jana Vrkoslavová - Potential of rhizosferic bacteria associated with Nicotiana tabacum to degrade PBDEs

Methods in Soil Microbial Ecology: Challenges and Limitations

361 Laura Giagnoni - Proteomic analysis of Cupriavidus metallidurans CH34 in copper contaminated and phytoremediated soil
362 Ton Gorissen - U13C Plant Materials expand probing capacities in complex ecosystems: New developments in stable isotope applications
363 Grit Kabiersch - A novel method to determine enzyme activities in solid media suitable for small sample volumes
364 Katharina Keiblinger - Comparison of extraction protocols to analyze the metaproteome of two different soil types.
365 Václav Krištůfek - Use of the HRSEM, CryoHRSEM and TEM microscopy for viewing of microorganisms in soil
366 Martin Krsek - Isolation of extracellular soil DNA
367 Petra Lovecká - The effect of organochlorinated pesticides to microbial diversity
368 Lorenzo Menichetti - In situ determination of long term (>50y) changes in delta13C signature of Soil Organic Matter in a cool temperate climate
369 Maarja Opik - Molecular biogeography of arbuscular mycorrhizal fungi (Glomeromycota)
370 Stefanie Wallisch - Improved protocol for the simultaneous extraction and column-based separation of DNA and RNA from different soils

Poster dimensions should not exceed 90 cm (width) x 150 cm (height)
Posters 69-220 will be displayed on Thursday, April 28, posters 221-370 on Friday, April 29
Posters can be pinned up from 8:00 and must be collected before 20:00