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SUNDAY, 29 NOVEMBER 2015

12:00-16:30 Registration

Opening session (Michael Schloter)

- 16.45 Welcome Petr Baldrian
- 17:15 **Keynote:** <u>Michael Wagner</u>: Nitrification revisited: The discovery of Comammox, cyanate-degrading nitrifiers, and reciprocal feeding
- 18:00 Keynote: Francis Martin: Unearthing the Roots of Fungal Symbioses

19:00-21:30 Welcome reception

MONDAY, 30 NOVEMBER 2015

8:00-11:00 Registration

Microbial Life in Contaminated and Anthropogenic Soils (Christoph Tebbe)

- 8:45 <u>Michael Schloter</u>: Reconstruction of microbial nutrient cycles in soil using metagenomic approaches (Invited lecture)
- 9:10 <u>Timothy Vogel</u>: Microbial Social Networks in Contaminated Soils (Invited lecture)
- 9:35 <u>Tomáš Cajthaml</u>: Insights into ecology during microbial bioremediation as assessed through advanced techniques case studies (Invited lecture)
- 10:00 <u>Matthias Kästner</u>: Degradation of ¹³C-labelled pyrene in soil-compost mixtures and farmyard fertilized soil turnover mass balances and community analyses
- 10:15 <u>Jennifer Wiltshire</u>: Microbial community dynamics in the rhizosphere of a heavy-metal hyper accumlator
- 10:30 <u>Anja Worrich</u>: Impact of mycelia-like dispersal networks on bacterial spatiotemporal dynamics linked to biodegradation at varying water potentials
- 10:45 <u>Antonios Michas</u>: Soil sediment microbial community adaptation due to a long history of oil contamination

- 11:00 <u>Anne Winding</u>: Biochar for soil carbon sequestration and P fertilization: effects on microbes and fauna
- 11:15-11:45 Coffee

Decomposition and Carbon Cycling (Christoph Tebbe)

- 11:45 Paolo Nannipieri: The microbial origin of humic substances (Invited lecture)
- 12:10 <u>Ellen Kandeler</u>: Microbial Colonisation and Resource Partitioning in Agricultural Soils (Invited lecture)
- 12:35 <u>Björn Lindahl</u>: Ectomycorrhizal fungi drive humus decomposition in boreal forest (Invited lecture)
- 13:00-14:30 Lunch

Decomposition and Carbon Cycling (Lynne Boddy)

- 14:30 <u>Rubén López-Mondéjar</u>: What do they eat? Exploring the substrate-specificity of microbial communities in the decomposition of C sources in a forest soil
- 14:45 <u>Annemieke van der Wal</u>: Similar and contrasting patterns of natural fungal community assembly during initial decay of coniferous and broadleaf tree logs: an experimental common garden approach
- 15:00 <u>Alexander Guhr</u>: Redistribution of soil water by saprotrophic fungi enhances carbon mineralization
- 15:15 <u>Ryan Williams</u>: Elucidating microbial drivers of decomposition and the carbon cycle through a co-occurrence framework
- 15:30 <u>Anders Tunlid</u>: Spectroscopy and transcriptomics provide novel insights into soil organic matter decomposition mechanisms in ectomycorrhizal fungi
- 15:45 <u>Pankaj Trivedi</u>: Microbial regulation of carbon cycle: evidence from gene-enzyme relationship
- 16:00 Edith Hammer: Mycorrhizas: Pipeline or Director of Belowground C Fluxes?
- 16:15-16:45 Coffee

Interactions among Micro- and Macroorganisms I (Lynne Boddy)

16:45 <u>Angela Sessitsch</u>: The Hidden World Within Plants: Ecological Considerations and Functioning of Microbial Endophytes (Invited lecture)

- 17:10 <u>Jan Frouz</u>: The effect of soil fauna in decomposition activity of soil microflora (Invited lecture)
- 17:35 <u>Julia Stevens</u>: Recruitment of a beneficial rhizosphere community by the common dandelion (Taraxacum officinale) from different soil types
- 17:50 <u>Max-Bernhard Ballhausen</u>: The sapro-rhizosphere concept: Bacteria as secondary consumers of plant-derived carbon
- 18:05-19:45 **Poster session I** (all posters with ODD numbers)

TUESDAY, 1 DECEMBER 2015

Biodiversity and Functioning of Forest Soils (Jan Dirk van Elsas)

- 8:45 <u>Petr Baldrian</u>: Forest microbiome diversity, functioning and dynamics (Invited lecture)
- 9:10 <u>Lynne Boddy</u>: Giants of the soil microbial world: foraging cord-forming fungi (Invited lecture)
- 9:35 <u>Martin Hartmann</u>: A decade of irrigation transforms the soil microbiome of a semi-arid pine forest
- 9:50 <u>Christina Hazard</u>: Genotypic Diversity Matters: Examining the diversity-ecosystem function relationship with ectomycorrhizal fungi
- 10:05 <u>Fabian Bergkemper</u>: Phosphorus depletion in forest soils shapes bacterial communities towards phosphorus recycling systems
- 10:20-10:50 Coffee
- 10:50 David Myrold: Microbial Community Response to Timber Harvest (Invited lecture)
- 11:15 <u>Leho Tedersoo</u>: Tree diversity and sampling effects on soil fungi, protists and meiofauna as revealed by multiplex ITS metabarcoding (Invited lecture)
- 11:40 <u>Hui Sun</u>: Microbial community shifts in structure and potential function across a boreal forest fire chronosequence
- 11:55 <u>Eva Weber</u>: Unravelling the ecological function of abundant but uncultivated Thaumarchaeota in acidic forest soils

- 12:10 <u>Katerina Soldanova</u>: Can we keep using soil ribosomal RNA as indicator of microbial activity?
- 12:25-14:00 Lunch

Soil Biogeochemistry and Nutrient Cycling (Paolo Nannipieri)

- 14:00 <u>James Prosser</u>: Bacterial ammonia oxidisers vs. archaeal ammonia oxidisers: who wins in soil, when and why? (Invited lecture)
- 14:25 Søren Sørensen: The communal gene pool in soil (Invited lecture)
- 14:50 <u>Sara Hallin</u>: Niche partitioning among N₂O reducing microorganisms and their importance as N₂O sinks
- 15:05 <u>Dagmar Woebken</u>: Combining stable isotope labeling experiments and single-cell analysis techniques to detect active microorganisms in soil
- 15:20 <u>Constance Roco</u>: The trajectories of denitrifier structure and function demonstrate remarkable differences in soil with a legacy of anoxic spells versus constant oxic conditions
- 15:35-16:15 Coffee
- 16:15 <u>Jan Dirk van Elsas</u>: The soil fungal-bacterial interactome Mechanisms of interaction, with special emphasis on *Burkholderia terrae* (Invited lecture)
- 16:40 <u>Jan Jansa</u>: Arbuscular mycorrhizal fungi proliferate in patches of soil enriched with Ncontaining organic compounds
- 16:55 <u>Marie Spohn</u>: Do microbial carbon use efficiency (CUE) and the mean residence time (MRT) of microbial biomass depend on soil stoichiometry?
- 17:10 <u>Natalie Lim</u>: Regulation of nitrite concentrations in acidic and neutral pH soils by a combination of chemistry and complex bacterial community regulation: A study of kinetics and transcriptomics
- 17:25 <u>Gu Feng</u>: AM fungal hyphae exudates can prime a bacterium mediated phytate mineralization in hyphosphere
- 17:40 <u>Joana Falcao Salles</u>: Alien escape: impacts of bacterial invasions on soil microbial communities
- 18:00-19:40 Poster session II (all posters with EVEN numbers)

WEDNESDAY, 2 DECEMBER 2015

Biodiversity and Functioning of Agricultural Soils (Jan Frouz)

- 8:45 <u>Christoph Tebbe</u>: Microbiology of soil primary organo-mineral complexes and particulate organic matter (Invited lecture)
- 9:10 <u>George Kowalchuk</u>: Links between patterns of soil microbial diversity and sustainable soils (Invited lecture)
- 9:35 <u>Michael Bonkowski</u>: The diversity and functions of protists in soil: problems and progress (Invited lecture)
- 10:00 Dror Minz: What does the microbiome tell us about life in the plant root zone?
- 10:15 <u>Wietse de Boer</u>: Soil Volatile Organic Compounds: Microbial Competition Tools with High Potential for Control of Root-Infecting Pathogens
- 10:30 <u>Germán Bonilla-Rosso</u>: Evolution and Distribution Patterns of Nitrite Reductase (*nirK/nirS*) in Soil Metagenomes suggest Functional Differences Between Lineages
- 10:45 <u>Frances Jones</u>: The diversity of free-living, non-diazotrophic *Bradyrhizobium* from contrasting soils
- 11:00-11:30 Coffee
- 11:30 <u>Zhong Wei</u>: Biodiversity of synthetic microbial communities determines disease suppression
- 11:45 <u>Gera Van Os</u>: An indicator for disease suppression: linking soil chemistry to microbiology using dissolved organic carbon fractionation
- 12:00 Ameni Bahroun: Protozoa induce soil suppressiveness against Fusarium wilt

Interactions among Micro- and Macroorganisms (Jan Frouz)

- 12:15 <u>Marc-André Selosse</u>: Life strategy and life cycle of *Tuber melanosporum*: a pioneer hermaphrodite with high spore bank and functional dioecism (Invited lecture)
- 12:40 <u>Mari Moora</u>: Arbuscular mycorrhizal fungal communities: global and local patterns and their potential drivers (Invited lecture)
- 13:05 <u>Aurelie Deveau</u>: From mutualism to antagonism: iron acquisition during soil microbial interactions

- 13:20 <u>David García de León Hernández</u>: Can arbuscular mycorrhizal fungi drive vascular plant secondary succession in alvar grasslands?
- 13:35-15:00 Lunch

Trainbiodiverse – Exploring Soil Biodiversity across Europe (Søren Sørensen)

- 15:00 Søren Sørensen: Introduction to TRAINBIODIVERSE
- 15:12 <u>Anne Schöler</u>: DNA extraction methods have little impact on microbial community composition as assessed by amplicon sequencing
- 15:24 <u>Barbara Bahnmann</u>: Fungal communities across a mixed temperate forest: Are local site properties the most influential or does whose your neighbour matter?
- 15:36 <u>Claudia De La Cruz Perera</u>: Plasmid community adaptation in long-term copper contaminated soil as revealed by a comparative mobilome approach
- 15:48 <u>Valentina Imparato</u>: Dynamics of microbial communities in pre-exposed and pristine soils in response to high concentration of biochar
- 16:00 <u>Inês Nunes</u>: Coping with copper: Soil active bacterial communities following 100 years of exposure
- 16:12 Samuel Jehan Auguste Jacquinod: TBD
- 16:24 <u>Irshad UI Haq</u>: Motility, stress responses and nutrients acquisition revealed by transcriptional profiling of *Burkholderia terrae* upon confrontation with a fungal host
- 16:36 <u>Jean-Sebastien Beaulne</u>: Large Scale Spatial Analysis of Bacterial Communities in Lake Sediments, the Role of Physico-Chemical Parameters, Spatial Distance, Land Cover and Tropical Storms
- 16:48 <u>João Raimundo</u>: Disentangling fine soil fauna-microbial interactions in mediating key soil processes under different land-use intensity systems and climate change scenarios
- 17:00-17:30 Coffee
- 17:30 <u>Laura Sanguino</u> : Using CRISPRs to learn about virus-host interactions in the environment
- 17:42 <u>Maria de Vries</u>: Phylogenetic and taxonomic diversity of glycoside hydrolase family 5 and 48-cellulase genes in agricultural soil

- 17:54 <u>Salvador Lladó</u>: Are the most abundant bacteria real key players in forest soil processes? A multi-omics approach
- 18:06 <u>Shamina Pathan</u>: Seasonal variation and distribution of total and active microbial community of β-glucosidase encoding genes in coniferous forest soil
- 18:18 Stephanie Jurburg: Autogenic succession in the soil microbial community
- 18:30 Susana Santos: Effects of land use on soil ciliate diversity
- 18:42 Sara Gallego: TBD
- 18:54 <u>Divyashri Baraniya</u>: Proteolytic soil communities and protease activity in rhizosphere of maize plants with different Nitrogen Uitilizing Efficiencies(NUE)
- 19:15-22:15 Conference dinner

THURSDAY, 3 DECEMBER 2015

Microbes in the Changing Environment (George Kowalchuk)

- 8:45 <u>Erland Bååth</u>: Bacterial growth responses to drying/rewetting and freezing/thawing a tale of two patterns (Invited lecture)
- 9:10 <u>Christa Schleper</u>: Zooming in on the Functional Heterogeneity of Ammonia Oxidizing Archaea in Arctic Soils (Invited lecture)
- 9:35 <u>Kornelia Smalla</u>: Plasmid-mediated adaptation of soil bacteria to pollutants (Invited lecture)
- 10:00 <u>Johannes Rousk</u>: A case-study for traits-based theory and prediction in microbial ecology: colonisation of sterilised soils across a pH gradient
- 10:15 <u>Tim Urich</u>: Metabolic and trophic interactions modulate methane production by arctic peat microbiota in response to warming
- 10:30 <u>Christian Poll</u>: Impact of climate change on carbon cycling and soil microorganisms in an arable ecosystem
- 10:45 <u>Marc Buée</u>: Ectomycorrhizal and non-symbiotic fungi respond differentially to climatic parameters: what is the link with host susceptibility to climate change?
- 11:00-11:30 Coffee
- 11:30 Jiří Bárta: Vulnerability of cryoturbated carbon to climate change

- 11:45 <u>Belinda Ferrari</u>: Metagenomic insights into microbes living in the cold, extreme polar desert soils of Eastern Antarctica
- 12:00 <u>Mark Anthony</u>: Plant invasion (garlic mustard; Alliaria petiolata) alters fungal community composition, increases fungal diversity, and shifts dominant fungal trophic strategy

Archaeomicrobiology, Paleomicrobiology and Microbial Forensics (George Kowalchuk)

- 12:15 Bruce Budowle: Maturation of the Field of Microbial Forensics (Invited lecture)
- 12:40 <u>Jeremy Austin</u>: Predicting the origin of soil evidence: high throughput eukaryote sequencing and MIR spectroscopy applied to a crime scene scenario (Invited lecture)
- 13:05 <u>Sandrine Demaneche</u>: Microbial Soil Community Analyses for Forensic Science -Application to a Blind Test
- 13:20-14:00 Conference closing

LIST OF POSTERS

Decomposition and Carbon Cycling

- 90. Tobias Arnstadt Log decay of *Fagus sylvatica* in temperate forests and the significance of lignin modifying enzymes for the degradation process
- 91. Chris Bamminger Divergent effects of pyrochar and hydrochar on greenhouse gas emissions and microbial abundances in an arable soil
- 92. Andrea Burešová Composition and activity of microbial community during decomposition of plant litter on two contrasting localities
- Juliana Conceição The management system can influence the physiological function and social interaction of phosphate solubilizing bacteria isolated rhizosphere of *Carica* papaya L.
- 94. Ivana Eichlerová Decomposition traits and enzyme production of saprotrophic fungi are shaped by the combination of their ecophysiology and taxonomy
- 95. Lia del Pilar Fernández Soil bacterial diversity from different animal settlements in maritime Antarctica
- 96. Damien Finn Carbon and nitrogen co-metabolism and microbial nitrogen-mining both determine the extent of plant material decomposition in four Australian pasture soils.
- 97. Dimitrios Floudas Evolutionary aspects of atromentin synthesis genes in Agaricomycetes
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- 99. Kevin Geyer A comparison of methods for measuring the efficiency of microbial metabolism
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- 103. Vincent Herve Ecology and diversity of oxalotrophic bacteria an in silico analysis
- 104. Björn Hoppe Fungal functional diversity and enzyme activity patterns in decaying logs of 13 temperate tree species in an in situ decomposition experiment
- 105. Aicha Asma Houfani Enzyme activities of aerobic (hemi)cellulolytic bacteria isolated from Algerian soils and compost
- 106. Dominika Chmolowska Cellulose was decomposed faster in fallow soil than in meadow soil because of a quicker start of the process
- 107. Sarah Johnston Fungus-Bacteria Interactions in Decomposing Wood
- 108. Grit Kabiersch Detection of organotin compounds and degradation by litterdecomposing fungi
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- 110. Harald Kellner Fungal research on an artificial deadwood decomposition experiment in the German Biodiversity Exploratories
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- 113. Sabrina Leonhardt Fungal extracellular enzyme activity and biomass in coarse woody debris of 13 tree species in the early phase of decomposition.
- 114. Katya Litova Studies on biodegradation of naphthalene and anthracene by Aspergillus glaucus strain isolated from Antarctic soil
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- 127. Mikhail Semenov DNA-based determination of soil microbial biomass carbon under conditions of restricted applicability of substrate-induced respiration and fumigationextraction
- 128. Sarker Mohammad Shakil Characterization of Fe³⁺ reductants secreted by the closely related ectomycorrhizal fungus Paxillus involutus and the saprotrophic fungus *Hydnomerulius pinastri* during Fenton-based decomposition of organic matter
- 129. Ana Margarida Soares Bridging the priming effect into aquatic systems Primary producer-C stimulates the fungal decomposition of submerged litter
- 130. Florian Strasser Influences of carbon substrates and nitrogen availability on microbial-mediated cellulose degradation in an Austrian beech forest soil
- 131. Lucie Štercová Fungal biodiversity of wood decomposing species in national nature reservation of Salajka
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- 133. Aloysius Teo Using teabags to estimate decomposition rates across primary and secondary tropical forests, and investigating the functional role of termites
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- 139. Roey Angel Optimizing the toolbox to investigate free-living diazotrophs in soil from bulk measurements to single-cell analysis.
- 140. Doreen Babin Effect of phenanthrene on the release of mobile organic matter and the bacterial community structure in soil
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- 142. Runa Boeddinghaus Land-use intensity and physico-chemical soil properties have distinct effects on microbial communities and enzyme activities of grassland soils
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- 144. Elisa Catão Ammonia oxidizers in a non-nitrifying Brazilian savannah soil
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- 149. Ahlam Hamim Phosphate solubilizing microorganisms isolated from root and rhizosphere soil of ericaceous shrubs in the north of Morocco.
- 150. Christine Heuck Soil microbial biomass C:N:P stoichiometry and microbial use of organic phosphorus
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- 152. María Irisarri Do soil type, rice cultivar and water management affect the bacterial denitrifying community of a paddy soil?

- 153. Sheku Kanu Interactive effects of Bacillus subtilis and seaweed (kelpak) on the growth, metabolites and yield of potato (Solanum tuberusom L.) under glasshouse conditions
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- 163. Yang Zhou The functional profiles of soil microbial communities are determined by soil chemical properties but not community composition

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- 166. Guillaume BAY Effects of cropping system, depth, and sampling time on soil microbial communities
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- 173. Mercedes García Sánchez Digestate and fly ash applications in agricultural soils impact in the biomass and biodiversity of fungal communities.
- 174. Aurelia Gebala Does Land-Use Intensity Influence Microbial Resource Partitioning and Microbial Colonization Strategies of Organo-Mineral Complexes in Grassland Soils?
- 175. Mariangela Girlanda Plant genotype control over the recruitment of the tomato fungal microbiota
- 176. Daniel Graf Community assembly processes of N2O reducing prokaryotes in the rhizosphere- effect of edaphic factors and plant species
- 177. Yian Gu Pathogen-induced shifts in exudation alter the rhizosphere microbiome
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- 180. Anna-Sofia Hug Soil microbial diversity patterns at Sites of the Swiss Soil Monitoring Network
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- 182. Milko Jorquera Exploring rhizobacterial community composition associated with plants grown in Chilean extreme environments using 16S rRNA-based molecular approaches
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- 188. Hongwei Liu Activation of salicylic acid defence signalling pathway reduced Archaea abundance and genes involved in nitrogen and carbon cycling in wheat rhizosphere
- 189. Pawel Lycus Newly isolated denitrifiers from low and high pH soil show little correlation between genotype and phenotype
- 190. Jarmila Makovníková The potential of agroecosystem services in relation to land use and biodiversity
- 191. Lokeshwaran Manoharan Enzymes related to organic matter degradation and agricultural management
- 192. Shinsuke Mori Changes in the oxidation-reduction potential and in bacterial profiles in the soil around direct-seeded rice under submerged conditions
- 193. Esther Muema Biochemically contrasting organic inputs combined with mineral nitrogen fertilizer shape the temporal variation of ammonia-oxidizing prokaryotic communities in an agricultural soil
- 194. Mary Musyoki Soil type, season and crop growth stage exert a stronger effect on rhizosphere microbial dynamics than the fungal biocontrol agent Fusarium oxysporum f.sp. strigae

- 195. Lidia Nicola Fumigation with Dazomet modifies soil bacterial and fungal communities in soil of apple orchards affected by Specific Replant Disease
- 196. Ansa Palojärvi Improved general plant pathogen suppressiveness by agricultural management practices
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- 200. Suikinai Nobre Santos Annotation of gene cluster Involved phenazine biosynthesis in Streptomyces CMAA 1322 also too structural elucidation of 1,6 dimethoxyphenazine.
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- 204. Hannes Schmidt Diversity and spatial distribution of diazotrophs associated with micro-environments of wetland rice
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- 207. Magdalena Steiner Microbial diversity and ecosystem functioning in vineyards
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- 209. Maaike van Agtmaal Exploring the phytopathogenic seedbank of agricultural soils diversity of soil borne plant pathogens in relation to edaphic properties and the soil microbial community
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- 211. Tianjie Yang Trophic network architecture of root-associated bacterial communities determines pathogen invasion and plant health
- 212. Qing Yao The functional profiles of soil microbial communities are determined by soil chemical properties but not community composition
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- 216. Toke Bang-Andreasen Responses in Active Microbial Communities and Expression of Important Functional Genes in Forest and Agricultural Field Soil after Wood Ash Addition Revealed by Metatranscriptomics
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- 221. Carles Castaño Soler Drying treatment of soil samples affects DNA recovery but does not change the fungal community structure by metagenomic analysis
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- 226. Kezia Goldmann Spatial variation of the fungal metagenome in temperate beech forests across Germany
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- 229. Michal Choma Recovery of ectomycorrhizal community of a boreal forest after three decades of N fertilisation
- 230. Leticia Izquierdo A new promising molecular marker to study the functional diversity of fungal communities the glycosyl hydrolase 63 gene
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- 235. Oscar Martínez Fungal communities associated with rhizosphere of Nothofagus alpina from different volcanic ash-derived soils in southern Chile
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- 239. Jade O'Leary Multi-dimensional mycelia interactions
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- 245. Tereza Poláčková Ecology of soil yeast communities in mixed temperate forest soils
- 246. Daria Rapoport Isolation and cultivation of actinobacteria from acid soils with high occurrence of Trebon clade
- 247. Ana Rincón Fire recurrence effects over the structure and activity of ectomycorrhizal fungal communities in Mediterranean pine forests
- 248. Alice Roy-Bolduc High richness of ectomycorrhizal fungi and low host specificity in a coastal sand dune ecosystem
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- 252. Izabela Sondej Impact of wild boar (Sus scrofa) rooting on the soil seed bank in Białowieża Forest.
- 253. Martina Štursová Spatial heterogeneity of mountainous soil is associated with high beta diversity of microbial community
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- 324. Alena Filipová A novel bioaugmentation approach for PAH-degrading bacteria in soil: Adaptability as assessed by molecular biology techniques
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- 326. Ulrike Gerber Interactions of natural occurring eukaryotic microorganisms with uranium(VI)
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- 328. Anna Grobelak The possible application of microorganisms in promoting plant growth and improving plant biomass in the phytoremediation of anthropogenic and contaminated soils
- 329. María Gutiérrez Núñez Non-target effects of pesticides on the microbial activity in agricultural soil
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- 331. Karin Hellauer Sequential managed aquifer recharge leads to a high diverse microbial community resulting in a better attenuation of moderate degradable trace organic chemicals (TOrC)
- 332. Anne Houles Ecological restoration of nickel mine sites in New Caledonia -Characterisation of ectomycorrhizal fungal community the key enabling the monitoring of facilitation process between plants.
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- 334. Inge Jambon Bioremediation of chlorendic acid, a highly chlorinated organic pollutant, by exploiting a fungal-bacteria consortium native to the contaminated field
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- 336. Hülya Kaplan Diversity of bacteria involved in 13C-labelled wheat root decomposition and efflux-mediated metal resistance in metal contaminated soils remediated with amendments
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- 338. Jennifer Mesa Marin Ecology of soil bacteria in bioremediation indigenous plant growth promoting rhizobacteria in native Spartina maritima as a tool for the restoration of heavy metal polluted salt marshes
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- 348. Gangavarapu Subrahmanyam Abundance and diversity of ammonia oxidizing archaea and bacteria in long-term industrial effluent polluted soils, Gujarat, Western India
- 349. Karel Švec Composition of fungal and bacterial communities in mercury polluted areas
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- 358. Eline van Asperen Establishing dung fungal spores as a proxy for herbivore abundance an experimental approach