

ESM2018

Program version 07052018

45 min opening lecture (45min)

30 min presentation (25min)

20 min presentation (15min)

15 min presentation (12min)

5 min lightning talk (4min)

Poster Session

Social Program or Meal

Date	Time	Min	Presenting	Title
1706 Sun	13:00-19:00			Doors open, Registration & speakers service open
1706 Sun	16:00-16:15			Opening of the ESM2018 Conference
1706 Sun	16:15-17:00	45	Joshua Schimel	Starvation amidst plenty: microbes, soil organic matter, and the role of water in regulating them
1706 Sun	17:00-17:30	30	Gabriele Berg	Linking microbial belowground diversity and plant health
1706 Sun	17:30-18:00	30	Lasse Ruokolainen	The environment-microbiota-health axis: At the interface between soil and human microbiota
1706 Sun	18:05-20:00			Get Together

Date	Time	Min	Presenting	Title
1806 Mon	08:00-18:00			Registration & speakers service open
1806 Mon	08:30-09:00	30	Svetlana Dedysh	Planctomycetes in boreal and subarctic peatlands: diversity patterns and potential functions
1806 Mon	09:00-09:15	15	Jenni Hultman	Microbial activity along a climate gradient in the arctic
1806 Mon	09:15-09:30	15	Mathilde Jeanbille	Co-occurrence networks show response of microbial communities to warming in tundra soils
1806 Mon	09:30-09:45	15	Robin Sen	Geomicrobiology of glacier basal ice: a frozen or future soil?
1806 Mon	09:45-10:00	15	Jeppe Aagaard Kristensen	Soil carbon and nitrogen cycling along a natural environmental gradient in Subarctic Mountain Birch forest: the fungal decoupling
1806 Mon	10:00-10:30	30		Coffee
1806 Mon	10:30-11:00	30	Hannu Fritze	Importance of methanotrophy in the C and N cycle
1806 Mon	11:00-11:20	20	Marcus A. Horn	Unusual acid-tolerant denitrifiers of permafrost affected peatlands drive massive N ₂ O emissions
1806 Mon	11:20-11:35	15	Anna Hakobyan	An experimental roadmap for in-depth proteome analysis of the methane-oxidizing <i>Methylocystis</i> sp. strain SC2
1806 Mon	11:35-11:50	15	Sylvain Monteux	Permafrost peatlands plants and their bacterial rhizobiome: stronger plant species-specific effects in permafrost than in active layer peat
1806 Mon	11:50-11:55	5	Heli Juottonen	Bacterial and fungal community composition but not richness or biomass follows plant primary succession in arctic inland sand dunes
1806 Mon	11:55-12:00	5	Michael Carson	Patterns and predictors of methane production and methanogen community composition across peatlands globally
1806 Mon	12:00-12:05	5	Minna Männistö	Climate change in subarctic tundra – responses of microbial communities to changes in snow accumulation and soil temperature
1806 Mon	12:05-12:10	5	Viktoria Unger	Predominance of methanogens over methanotrophs contributes to high methane emissions in rewetted fens

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1806 Mon	12:10-14:45	30		Lunch
1806 Mon	12:45-14:05			Poster Session 1
1806 Mon	14:05-14:20	15	Jiří Bárta	Circumpolar microbiome pattern as determinant of subducted carbon vulnerability in Arctic permafrost soils
1806 Mon	14:20-14:35	15	Mathilde Borg Dahl	Fine scale niche differentiation among amoebal communities of dark-spored myxomycetes determined by landscape structures as well as biotic factors.
1806 Mon	14:35-14:50	15	Mary-Cathrine Leewis	Permafrost as an active microbial ecosystem: pushing up against the thermodynamic limits of life
1806 Mon	14:50-15:05	15	Preshita Gadkari	Stable Isotope Probing Reveals a Subzero-Active Bacterial Community in Arctic Tundra Soils
1806 Mon	15:05-15:10	5	Anja Worrlich	Time to Wake Up! - Mycelia Enable Bacterial Activity in Dry and Oligotrophic Environments
1806 Mon	15:10-15:15	5	Giulia Gionchetta	Insights into long-term drought, storms and rewetting effects on streambed microbial diversity
1806 Mon	15:15-15:20	5	Gautam Anand	ACC deaminase positive bacteria - Serving dual role of Protector and Benefactor for plants under salinity stress
1806 Mon	15:20-15:25	5	Julian Taffner	Secret collaborations: plant-associated Archaea and their interaction with their hosts
1806 Mon	15:25-15:30	5	Ondrej Uhlík	Role of secondary plant metabolites in the ecology of soil microorganisms
1806 Mon	15:30-16:00	30		Coffee
1806 Mon	16:00-16:20	20	David Lipson	Soil microbial responses to drought and exotic plants shift carbon metabolism in a semiarid ecosystem
1806 Mon	16:20-16:35	15	Angela Straathof	Legacy of drought affects microbial community composition and activity induced by root exudation
1806 Mon	16:35-17:05	30	Petr Baldrian	The known and the unknown in soil microbial ecology
1806 Mon	17:05-17:25	20	Marja Tirola	Information in droplets-towards single-cell sequencing in microbiology%MCEPASTEBIN%
1806 Mon	17:25-17:40	15	Michael Braus	Methods, Measurements, and Models of <i>In Situ</i> pH of the Soils of Wisconsin
1806 Mon	17:40-17:45	5	Mika Tarkka	Drought and climate change induced shifts in the plant community favor specific soil bacterial communities with contrasting functional characteristics
1806 Mon	17:45-17:50	5	David Hopkins	Micro-RIP: Functional analysis of uncultivated microbes using radioisotope probing
1806 Mon	17:50-17:55	5	Jie Hu	Plant growth stage drives microbiome community assembly, interaction patterns and functionality
1806 Mon	17:55-18:00	5	Eva Kastovska	Performance of plant-microbial-soil system as affected by plant species and N availability
1806 Mon	18:00-18:05	5	Marta Goberna	The evolutionary legacy of microbial taxa impacts ecosystem functioning
1806 Mon	19:00-20:30			Helsinki City Reception, City Hall, address Pohjoisesplanadi 11-13

Date	Time	Min	Presenting	Title
1906 Tue	08:00-17:00			Registration & speakers service open
1906 Tue	08:30-09:00	30	Wim van der Putten	Plant-microorganism interactions under climate warming-induced range shifts: consequences for ecosystem functioning
1906 Tue	09:00-09:20	20	Yong-Guan Zhu	Impacts of long term rice cultivation on soil microbial diversity: A synthesis
1906 Tue	09:20-09:35	15	S. Emilia Hannula	Soil legacy effects on plant endophytes and plant-feeding caterpillars
1906 Tue	09:35-09:55	20	Wietse de Boer	Bacterial War on Fungi
1906 Tue	09:55-10:10	15	Raza Waseem	Volatile organic compounds link distant microbial community composition to plant growth and health
1906 Tue	10:10-10:40	30		Coffee
1906 Tue	10:40-11:10	30	Christoph C. Tebbe	Soil microbial community analyses - From habitat filtering to interactions
1906 Tue	11:10-11:25	15	Arjun Chakrawal	How does spatial heterogeneity affect decomposition dynamics?
1906 Tue	11:25-11:40	15	Jan Jansa	Utilization of soil organic nitrogen by arbuscular mycorrhizal fungi – mechanisms and players
1906 Tue	11:40-11:55	15	Maarja Öpik	Interactions between grassland plants and arbuscular mycorrhizal fungi are selective
1906 Tue	11:55-12:10	15	Rasmus Kjøller	Distinct fungal guilds respond differently to the availability and diversification of plant and carbon resources
1906 Tue	12:10-12:45			Lunch
1906 Tue	12:45-14:05			Poster Session 2
1906 Tue	14:05-14:35	30	Annegret Kohler	Using genomics to understand the role of soil fungi in forest ecosystems
1906 Tue	14:35-14:50	15	Anders Tunlid	Spectroscopy and transcriptomics provide novel insights into the decomposition of soil organic matter by fungi
1906 Tue	14:50-15:05	15	Leho Tedersoo	Mycorrhizal types differ in ecophysiology and ecosystem functioning
1906 Tue	15:05-15:20	15	Håvard Kausrud	Macroecology analyses of millions of fruit body records: Environmental drivers of phenology and species assemblies across Europe
1906 Tue	15:20-15:25	5	Janina Dierks	Tree-to-Maize Nutrient Transfer via Mycorrhizal Networks in Low-Input Maize Cropping Systems?
1906 Tue	15:25-15:30	5	Vanessa Otero Jiménez	Soil fungal communities in paddy soils after carbon amendment at blooming stage
1906 Tue	15:30-15:35	5	Svenja Stock	Nutrient demand as dominant driver of resource allocation into extracellular enzyme synthesis in soil
1906 Tue	15:35-15:40	5	Fabian Weikl	Compositional changes through repeated years of summer drought in fungi (non-ECM) associated with roots of beech and spruce
1906 Tue	15:40-15:45	5	Sannakajsa Velmala	Fine root foraging strategies of Norway spruce seedlings with contrasting future phenotypes in response to nutrient-rich patches
1906 Tue	15:45-15:50	5	Sytske Drost	Cover crop mixtures increase microbial functional diversity during decomposition
1906 Tue	15:50-16:20	30		Coffee

Date	Time	Min	Presenting	Title
1906 Tue	16:20-16:35	15	Ellen Kandeler	Contribution of saprotrophic and ectomycorrhizal fungi to organic P mobilization in forest soils
1906 Tue	16:35:16:50	15	Lucienne de Witte	Changes of ectomycorrhizal communities along a nitrogen deposition gradient and with soil depth
1906 Tue	16:50-17:10	20	Taina Pennanen	The mycorrhiza-root interphase of spruce is under genetic control of the host and adaptive to soil characteristics
1906 Tue	17:10-17:15	5	Carla Cruz-Paredes	Suppression of mycorrhizal fungi (AMF) mycelium by soil microbiota
1906 Tue	17:15-17:20	5	Gu Feng	Arbuscular mycorrhizal fungi stimulate organic phosphate mobilization by changing bacterial community structure under field conditions
1906 Tue	17:20-17:25	5	Sari Timonen	Bacteria in ericoid roots and mycospheres
1906 Tue	17:25-17:30	5	Lu Min Vaario	May Matsutake mycorrhiza-associated Streptomycetes distinguish friend and foe in shiro, the evidences from in vitro studies
1906 Tue	18:15-24:00			Boat transport to island Klippan, boat leaves from address Ehrenströmintie 14
1906 Tue	19:00-24:00			Conference Dinner, Restaurant Saaristo

Date	Time	Min	Presenting	Title
2006 Wed	08:30-17:00			Registration & speakers service open
2006 Wed	09:00-09:30	30	Yakov Kuzyakov	Microbial hotspots and hot moments in soil
2006 Wed	09:30-10:00	30	Chao Liang	Microbial Carbon Pump and its Significance for Carbon Sequestration in Soils
2006 Wed	10:00-10:15	15	Karolin Müller	The fate of carbon in hot spots: linking decomposition processes to microbial key players
2006 Wed	10:15-10:30	15	Sara König	Increased activity of surviving bacteria facilitate functional resistance to recurrent disturbances: a modelling study
2006 Wed	10:30-10:45	15	Milagros Barcelo	Global distribution of mycorrhizal host plants explained by climate and soil properties
2006 Wed	10:45-11:15	30		Coffee
2006 Wed	11:15-11:35	20	Nadia Soudzilovskaia	Linking biogeographical patterns of microbial distributions to the modelling of soil functions and associated ecosystem services.
2006 Wed	11:35-11:50	15	Delphine Derrien	Depolymerization of organic matter as a bottleneck for carbon cycling
2006 Wed	11:50-12:05	15	Jussi Heinonsalo	The plant-microbial impacts on soil processes with direct climate feedbacks: conclusions from studies on CO ₂ , CH ₄ , N ₂ O, VOCs and amines
2006 Wed	12:05-12:10	5	Sven Marhan	What controls the response of N ₂ O and CH ₄ fluxes to warming: Changes in microbiological or physical soil properties?
2006 Wed	12:10-12:15	5	Kristiina Karhu	Glucose induced priming effect of soil organic matter decomposition in boreal forest soils with different C:N ratios
2006 Wed	12:15-12:20	5	Sebastian Preusser	Bacterial and fungal turnover of litter-derived DOC in top- and subsoil of a beech forest
2006 Wed	12:20-12:25	5	Lingling Shi	Does the distribution of the functions of microbial community in soil particles follow the pattern of organic C turnover?
2006 Wed	12:25-12:30	5	Outi-Maaria Sietiö	The impact of restriction of photosynthetic carbon flow on fungal and bacterial communities in boreal forest soils
2006 Wed	12:30-12:35	5	Kate M. Buckeridge	Sticky Dead Microbes

Date	Time	Min	Presenting	Title
2006 Wed	12:35-13:10			Lunch
2006 Wed	13:10-14:30			Poster Session 3
2006 Wed	14:30-14:45	15	Sara Hallin	Soil C/N and legacy effects of fertilization controls denitrifying and DNRA bacteria affecting N retention, loss and N ₂ O emissions
2006 Wed	14:45-15:00	15	Nadine Praeg	The effect of plants on methane flux of upland soils and methanogenic and methanotrophic microorganisms in the rhizosphere
2006 Wed	15:00-15:15	15	Kyle Mason-Jones	Bacterial synthesis of storage compounds – a neglected dimension of the carbon cycle
2006 Wed	15:15-15:30	15	Louise Egerton-Warburton	Coupled metagenomic-chemical analyses of degrading fungal necromass and its contribution to soil organic carbon
2006 Wed	15:30-15:45	15	Vendula Brabcová	Nutrient content affects the turnover of fungal biomass in forest topsoil and the composition of associated microbial communities
2006 Wed	15:45-16:00	15	Rubén López -Mondéjar	Deciphering the structure of decomposer food web and functional relevance of microbial communities in the C flow in forest soil
2006 Wed	16:00-16:30	30		Coffee
2006 Wed	16:30-17:00	30	Lynne Boddy	Complex fungal communities in 3-dimensional space: emergent properties in antagonistic mechanisms
2006 Wed	17:00-17:20	20	Eeva Vainio	Virus communities of forest fungi inhabiting decomposing wood and tree roots
2006 Wed	17:20-17:50	30	Jan Dirk van Elsas	Major genetic elements that spur horizontal gene transfers across bacteria in the mycosphere
2006 Wed	17:50-18:05	15	Xiaofang Wang	Multiple phages therapy agents keeps pathogens in check by generating disproportional resistance costs
2006 Wed	18:05-18:10	5	Vojtěch Tláškal	Functional characterization of bacteria associated with dead wood based on genome and metagenome annotation
2006 Wed	18:10-18:15	5	Jarkko Hantula	New biocontrol applications against <i>Heterobasidion</i> spp.
2006 Wed	18:15-18:20	5	Tuulia Mali	Interactions of Polyporales fungi: enzyme activities, release of VOCs and progress of spruce wood decomposition upon three-species cohabitation experiments
2006 Wed	18:20-18:25	5	Anna Voulgari Kokota	Fungal growth, lethal to solitary bee <i>Osmia bicornis</i> larvae, is inhibited by soil bacteria isolated from the species' nests

Date	Time	Min	Presenting	Title
2106 Thu	08:00-14:00			Registration & speakers service open
2106 Thu	08:35-09:05	30	Eeva Furman	Introduction to Sustainable Deveopment Goals by using soil-human microbiota as a case
2106 Thu	09:05-09:50	45	Rachel Creamer	What do we demand from our soils?
2106 Thu	09:50-10:10	20	David Myrold	Connecting Microbial Communities to Soil Health
2106 Thu	10:10-10:25	15	Aki Sinkkonen	Integrating diverse environmental microbiota into everyday life of urban dwellers
2106 Thu	10:25-10:55	30		Coffee (with sandwiches)
2106 Thu	10:55-11:25	30	Judith Sarneel	Where has our scientific tea break brought us? Overview of recent TBI developments
2106 Thu	11:25-11:30	5	Stuart W. Smith	Termites, teabags and tropical savannahs
2106 Thu	11:30-11:35	5	Inge Althuizen	Long-term climate regime modulates the impact of short-term climate variability on decomposition in alpine grassland soils
2106 Thu	11:35-11:40	5	Taru Sandén	TeaTime4Schools: How to put decomposition into practice
2106 Thu	11:40-11:45	5	Peter Mueller	Global change effects on litter break-down in tidal wetlands: implications from a global survey using the Tea Bag Index
2106 Thu	11:45-11:50	5	Mohsin Tariq	Occurrence of plant growth promoting Ochrobactrum and Bacillus sp. in the nodules of Vigna radiata
2106 Thu	11:50-11:55	5	Lori Phillips	Exploring microbial functional resilience in a Canadian agricultural system using dry soil archives
2106 Thu	11:55-12:10	15	Sophie Q. van Rijssel	Carbon and nutrient cycling in organic agriculture: a chronosequence approach
2106 Thu	12:10-12:25	15	Elly Morriën	The role of fungi in restoring old fields
2106 Thu	12:25-13:00			Closing Ceremony