

# Soil, Biodiversity and Life

## The contribution of soil to sustainability of life

Tuesday November 20, 2012

Hof van Wageningen  
Lawickse Allee 9  
Wageningen

Organisers:

Prof. Wim van der Putten (*Netherlands Institute of Ecology*)  
Dr. Claudius van de Vijver (*Netherlands Ecological Research Network*)

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Graduate Schools PE&RC, SENSE and E&E



# Programme

9:00	Registration
9:30	Soils, plants and biodiversity: a belowground view of species changes and ecosystem processes <i>(David Wardle, Swedish University of Agricultural Sciences)</i>
10:15	Aboveground-belowground linkages <i>(Martijn Bezemer, Netherlands Institute of Ecology)</i>
11:00	Coffee/Tea
11:30	The root of the problem - plant-soil interactions in a changing world <i>(Richard Bardgett, Lancaster University)</i>
12:15	Roots at work: insights from biodiversity experiments <i>(Liesje Mommer, Wageningen University)</i>
13:00	Lunch and poster session
14:00	When does microbial diversity matter for soil ecosystem function? <i>(Jim Prosser, University of Aberdeen)</i>
14:45	Plant-soil feedbacks: mechanisms and consequences <i>(Gerlinde De Deyn, Wageningen University)</i>
15:30	Tea
16:00	Historical contingency and the maintenance of plant diversity by plant-soil interactions <i>(Tadashi Fukami Stanford University)</i>
16:45	Soil biodiversity in an urbanized world <i>(Heikki Setälä, University of Helsinki)</i>
17:30	Drinks
18:15	Speakers and course dinner

# POSTERS

Author	Poster Title
Miriam Achler	Horizontal and vertical biodiversity drives ecosystem functioning
Maaïke van Agtmaal	Role of volatiles in <i>Pythium</i> intermedium suppression
Amaia Albizua Aguinaco	Political ecology of soil management under climate change
Walter Andriuzzi	Defining the drilosphere of anecic earthworms: a field experiment with isotopic tracers
Erich Biermann	Food webs on gravel pit lake islands at the Lower Rhine
Jaap Bloem	Food Webs and Carbon Cycling during Soil Transformations
Claudia Bragalini	Impact of agricultural practices and global climates changes on the taxonomic and functional diversity of soil eukaryotic microbes in the Mediterranean area
Maria Briglia	Occurrence of nitrite-driven CH <sub>4</sub> -oxidizers in European lake sediments
Martina Caplice	Accessing the soil fauna responsible for the decomposition of bait material in the bait lamina method
Wenfeng Cong	Species composition and diversity promote soil C and N storage in the absence of legumes and C <sub>4</sub> grasses
Sanne De Smet	Finding the Holy Grail in production ecology: a systems biology approach to understand how plants may combine fast growth with effective defence against belowground natural enemies
Verena Eissfeller	The influence of tree diversity and tree identity on soil fauna of deciduous forests
Roger Finlay	Ectomycorrhizal fungal and associated bacterial community structure in boreal forest soils
Sebastian Flues	Functional roles of Cercozoa in the rhizosphere and phyllosphere of plants
Stefan Geisen	Identification, functional roles and ecosystem services of protozoa in soil
Brad Gottshall	I am interested but still undecided about presenting a poster. Will update following your contact.
Emilia Hannula	Exploring fungal community function
Amber Heijboer	Linking microbial diversity to the functioning of soil food webs
Anela Kaurin	Soil quality changes after a decade of different soil tillage at LTO Moškanjci, Slovenia

Author	Poster Title
Michael Kermah	N2Africa: Unpacking the (GL x GR) x E x M in Legume-Rhizobium Symbiosis for increased Nitrogen Fixation in Northern Ghana
Robert Koller	Carbon flow in belowground food webs assessed by isotope tracers.
Ellen Latz	Plant diversity and identity drive the abundance and antifungal activity of <i>Pseudomonas fluorescens</i>
Elly Morrien	Soil biodiversity and nutrient cycling
Anna Mutschlechner	Protozoa-bacteria interrelationship as affected by root vicinity, organic matter and soil depth
Linda Nol	Soil & Education
Astra Ooms	Linking traits of plants and macro-detritivores to ecosystem services - A predictive tool to assess effects of biodiversity loss on soil function?
Casper Quist	Selective alteration of soil food web components by invasive Giant goldenrod ( <i>Solidago gigantea</i> ) in two distinct habitat types
Janneke Ravenek	Roots in the Jena experiment
Nicole Scheunemann	Carbon flow in the belowground food web of an agricultural field assessed by isotope tracers - a pulse labelling experiment
Maarten Schrama	Can Biomass crops be used to increase soil functioning?
Tanja Strecker	Stability of microbial functions depends on plant diversity and plant functional groups
Agnieszka Szturc-Koetsier	Linking soil functioning with the microbial diversity in agricultural soils across The Netherlands
Simone Weidner	Intraspecific diversity increases plant-growth promotion by rhizosphere microbial community
Varuna Yadav	Plant and soil community history interactively affect biodiversity–ecosystem functioning relationships