

Conference on Soil Biota driven Ecosystem Services in European Agriculture

22nd – 23rd October 2019, FORUM, Thünen-Institute Braunschweig, Germany



How can adapted agricultural management promote soil biota and how does soil biodiversity feeds back with ecosystem services as benefit for farmers and society?

Tuesday, 22.10.2019	
9:30	Welcome coffee and registration
10:30	Welcome by Martin Banse (Thünen Institute, Germany)
10:45	1st plenary session: Soil biodiversity as a companion for farmers Chairwoman: Guénola Pérès (Agrocampus Ouest, France) <u>Keynote:</u> Lijbert Brussaard: Soil Biodiversity for Regenerative Agriculture (Wageningen University & Research, Netherlands)
11:30	Birgit Lang: Effects of earthworm activity on bulk density - a meta-analysis (Senckenberg Museum of Natural History Görlitz, Germany) Giulia Bongiorno: Reduced tillage, but not organic matter input, has increased nematode diversity and food web stability in European long-term field experiments (FiBL, Switzerland) Maarja Õpik: Plant symbiotic mycorrhizal fungi in agriculture (University of Tartu, Estonia)
12:30	Diskussion with the audience
13:00	Lunch break (sandwiches)
14:00	2nd plenary session: Soil biota driven ecosystem services as a societal value Chairman: Stefan Schrader (Thünen Institute, Germany) <u>Keynote:</u> Katharina Helming: Sustainability assessment of agricultural soil management (ZALF, Germany)
14:45	Kevin Hoeffner: Do crop rotations including temporary grassland improve soil ecosystem services? (INRA, Agrocampus Ouest, France) Pia Euteneuer: Earthworms affect decomposition of soil-borne plant pathogen <i>Sclerotinia sclerotiorum</i> in a cover crop field experiment (BOKU, Vienna)
15:30	Coffee break
16:00	Monika Joschko: X-ray CT assessment of soil structure: a tool for monitoring soil biota driven ecosystem services in agricultural soils (ZALF, Germany) Svenja Meyer: European mesofauna under drought stress - Evidence from wheat fields (University of Göttingen, Germany)
16:45	Discussion with the audience

17:15	<p>Poster pitches of 5 minutes each</p> <p><u>Jussi Heinonsalo</u>: Biodiversity effects on farmland carbon sequestration (Project TWINWIN) (Finnish Meteorological Institute FMI, Helsinki, Finland)</p> <p><u>Lea Spelzhausen</u>: Towards an improved understanding of carbon sequestration in grassland soils – the impact of soil fauna (University of Bremen, Germany)</p> <p><u>Mignon Sandor</u>: Exploring biodiversity in Romanian vineyard to promote sustainable management and conservation of biodiversity (University of Cluj, Romania)</p> <p><u>Manuel Anguita-Maeso</u>: Plant genotype, soil and climate as drivers of the olive microbiome composition (Institute for Sustainable Agriculture IAS, Cordoba, Spain)</p> <p><u>Vivien Schwarz</u>: Influence on soil aggregation by mycorrhizal inoculation of maize on a sandy soil (University of Applied Science in Osnabrück, Germany)</p>
17:45	<p>Snapshots from the SoilMan project of 7 minutes each</p> <p><u>Christine van Capelle</u>: Suppression of plant pathogens and detoxification by soil biota – below-ground support for healthy arable soils (Thünen Institute, Germany)</p> <p><u>Ilka Schmoock</u>: Effects of tillage intensity in arable land on ecosystem services driven by soil biota (University of Göttingen, Germany)</p> <p><u>Dumitrița Dascălu</u>: Can tillage management induce changes in functional diversity of the soil microbial community? (University of Cluj, Romania)</p> <p><u>Ulfert Graefe</u>: The performance of microannelid communities at SoilMan sites (Institute for Applied Soil Biology, Hamburg, Germany)</p> <p><u>Astrid Taylor</u>: Effect of tillage intensity on earthworms and their bioturbation activity (SLU, Sweden)</p> <p><u>Jörg Hanisch</u>: Collembolan biodiversity in agricultural fields across Europe as affected by farm-based soil management practices (University of Göttingen, Germany)</p>
18:45	Buffet Dinner

Wednesday, 23.10.2019	
9:30	<p>3rd plenary session: Future opportunities for soil biota preservation in agriculture</p> <p>Chairman: Jan Bengtsson (SLU, Sweden)</p> <p><u>Keynote:</u></p> <p>Martin Potthoff & Martin Banse: How can policy strengthen the synergies between agriculture and soil biodiversity? (University of Göttingen & Thünen Institute, Germany)</p>
10:15	<p>Catherine Milou: The role of collective action at a territorial level in promoting agroecological practices. A case study of a deliberation process between farmers and consumers (Lereps/Qualisol, France)</p>
10:45	Coffee break
11:15	<p>Morgane Hervé & Annegret Nicolai: Integration of values plurality in the definition of soil management strategy by European farmers (University of Rennes, France / University of Göttingen, Germany & University of Rennes, France)</p> <p>Alexandra Langlais: Soil biota preservation in the post-2020 Common Agriculture Policy (University of Rennes 1, France)</p>
12:00	Discussion with the audience
12:30	Concluding remarks by Guénola Pérès (Agrocampus Ouest, France)
13:00	Lunch (optional, in canteen of the Thünen Institute)

Organisers of the conference:



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