**Session Proposal**

# Session Title

Soil food web structure and function under global change

# Session Organizers

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# Session Description

Soil organisms, including macrofauna, mesofauna and microorganisms, are involved in many soil processes and contribute to soil health and ecosystem services. This session provides the scope for critical discussions about the links between taxonomic and functional diversity, abundance of soil organisms and soil biotic interactions in the soil food web that impact multiple ecosystem functions, including soil organic carbon, nutrient biogeochemical cycling, plant productivity and biocontrol. Theoretical studies would involve model systems that represent the spatio-temporal dynamics of populations and communities from the ecosystem to landscape and regional scales. Practical studies for managing soil food web and functions as well as soil biodiversity conservation strategies in natural and agricultural soils will be shared between experts and those interested in this field. The impact of environmental changes, such as land conversion, pollution or climate change, on soil organisms and the resulting ecological functions, as well as studies on bio-indicators of the environmental and management practices will also be a focus in this session. Contributions that use novel technologies, including molecular methods and trait-based approaches are welcome.. The session will also provide a networking opportunity for domestic/early-career soil scientists as well as established international soil scientists.

# Format

Oral presentations

# Proposed Speakers

* Yuji Jiang, Fujian Agriculture and Forestry University, a leading scientist in soil food web functioning who focuses on the interactions between various biological groups and ecosystem functioning.
* Stefan Geisen, Wageningen University & Research, a leading expert in soil zoology who focuses on the interactions of microbiome and soil fauna.

To be continued…