Special Issue

Soil Microbial and Nematode Communities: Diversity, Function, and Responses to Agronomic Practices

Message from the Guest Editors

Soil microorganisms and nematodes play central roles in ecosystem functioning by regulating nutrient cycling, influencing plant–soil interactions, and contributing to organic matter turnover. Their communities are highly responsive to agronomic practices, which can either enhance or degrade soil biodiversity and function. This Special Issue focuses on how management strategies such as organic and mineral fertilization, crop rotation, irrigation regimes, and biological amendments influence the composition, diversity, and ecological roles of soil microbial and nematode assemblages. Emphasis is placed on studies that explore community dynamics, trophic structure, microbe–nematode interactions, and contributions to soil food web stability. We welcome submissions that apply field or greenhouse experiments, molecular tools, functional indices, or ecological modeling approaches. Manuscripts that integrate biological data with indicators of soil quality or resilience are particularly encouraged. The aim is to compile studies that improve our understanding of belowground biodiversity under managed conditions and contribute to the development of sustainable agricultural systems.

Guest Editors

Dr. Nikolaos Monokrousos

Laboratory of Soil Ecology, International Hellenic University, 57001 Thessaloniki, Greece

Dr. Andrea Čerevková

Laboratory of Plant Nematology, Institute of Parasitology, Slovak Academy of Sciences, Hlinkova 3, 04001 Košice, Slovakia

Deadline for manuscript submissions

20 May 2026

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/253641

Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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