

## Special Issue

# Agriculture for Resilience: Sustainable and Systemic Approaches Unveiling the Soil Ecological Dynamics

### Message from the Guest Editors

At present, exploring sustainable and systemic agricultural approaches that prioritize soil health as a cornerstone of resilience is more urgent than ever.

This Special Issue investigates how agroecological practices, such as crop rotation, cover cropping, organic amendments, and reduced tillage, can stimulate belowground biodiversity and improve nutrient cycling, water retention, and carbon sequestration in terrestrial ecosystems. By fostering microbial activity and enhancing biological interactions within the rhizosphere, these strategies strengthen soil's ability to buffer environmental stressors and maintain productivity under variable conditions.

Adopting a systems-thinking framework, we highlight how feedback loops between soil, plants, and management practices shape both short-term agricultural outcomes and long-term sustainability. Particular attention is paid to the integration of ecological monitoring with agronomic indicators, as well as to comparisons between sustainable and conventional practices. Ultimately, this Special Issue welcomes research articles, reviews, communications, and short communications that adopt an interdisciplinary approach to this research area.

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### Guest Editors

Dr. Pasquale Napoletano

Dr. Rosangela Adesso

Prof. Dr. Anna De Marco

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### Deadline for manuscript submissions

31 March 2026



## Agronomy

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