

## Special Issue

# Microbial Mediators: The Bridge Between Soils, Plants, and Animal Infectious Diseases

### Message from the Guest Editors

Micro-organisms bridge plants, soils, and animals, significantly impacting health and well-being. Environmental changes and agricultural practices can alter microbial communities, which regulate dynamic interactions among microbes, soils, plants, and animal hosts. Moreover, shifts in plant growth above ground indirectly influence soil conditions through root-microbe interactions. This, in turn, alters the finely tuned balance maintained among these complex ecosystems, resulting in, among other issues, the onset and diffusion of infectious diseases with repercussions for animals, the environment, and humans. This Special Issue will focus on unraveling the interactions between the environment (soils and plants) and animals as mediated by soil micro-organisms, including signaling and metabolic processes. We welcome high-quality submissions exploring microbial communities, soil nutrient cycling, plant stress resistance, antimicrobial resistance, and related fields.

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### Guest Editors

Dr. Wensheng Fang

Dr. Tilocca Bruno

Dr. Bin Huang

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### Deadline for manuscript submissions

closed (20 March 2026)



## International Journal of Molecular Sciences

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CiteScore 9.0  
Indexed in PubMed



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*International Journal of  
Molecular Sciences*  
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