Special Issue

Soil Management: Implications for Pest and Disease Control

Message from the Guest Editors

Effective soil management has been accepted as essential for obtaining high crop yields. Many researchers have observed that fertility practices improving soil macro- and microbiota diversity enhances plant health and crop protection. Recent research links soil microbiota in the rhizosphere to aboveground pests and diseases, as well as pest and beneficial arthropod interactions since they can change the chemical composition of the plants, stimulating the synthesis of plant defense compounds. Soil microbiota diversity also contributes to plants overcoming climatic change. Therefore, we currently face the challenge of conserving and enhancing soil macro- and microbiota in agroecosystems. The following topics are all welcomed:
- Practices improving soil macro- and microbiota;
- Promotion of plant defense mechanisms by soil biota;
- Endophytic fungi, and mycorrhizae, and bacteria interactions with herbivorous and beneficial insects;
- Fertilization and soil biota;
- Fertilization and pest and disease control;
- Cover crops, crop rotation, and soil biota;
- Landscape management and soil macro and microbiota;
- Soil biota and climate change tolerance.

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