

Special Issue

Ecological and Molecular Interactions between Insects and Fungi

Message from the Guest Editors

Fungi and insects share common traits: they both possess chitin-based exteriors, and they both are heterotrophic. Fungi represent a feeding resource for mycophagous insects, while many fungi are entomopathogenic and exploit insects as a nutrient substrate. However, coevolution led to a continuum of relationships between these organisms which, far from being merely antagonistic, also involve mutualism. Studies displaying how fungi can play a positive role by directly affecting insect pest development or inducing plant resistance and defense reactions have in turn stimulated the awareness that actually their interactions can go beyond these basic effects, and involve more strict developmental relationships which call for further insights. This Special Issue has been conceived to set up a collection of contributions examining the outcome of ecological and molecular interactions between insects and fungi, resulting from observations concerning agroecosystems and forest contexts, and from the analysis of the available literature referring to specific associations.

Guest Editors

Dr. Rosario Nicoletti

1. Council for Agricultural Research and Economics, Research Center for Olive, Citrus and Fruit Crops, 81100 Caserta, Italy
2. Department of Agricultural Sciences, University of Naples Federico II, 80055 Portici, Italy

Dr. Andrea Becchimanzi

Department of Agriculture, University of Naples 'Federico II', Via Università 100, 80055 Portici, Italy

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

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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular Toxicology, UFZ-Helmholtz Centre for
Environmental Research, 04318 Leipzig, Germany

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