



biology



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18th SEFIN Meeting and 1st Spanish-Portuguese Congress on Beneficial Plant-Microorganism Interactions

Guest Editors:

Prof. Dr. Manuel Becana

Dr. Isabel V. Castro

Prof. Dr. Jose Maria Vinardell

Dr. Ana Rincón

Deadline for manuscript
submissions:

closed (30 November 2023)

Message from the Guest Editors

Dear Colleagues,

A wide range of microorganisms live in association with plants, including diazotrophic bacteria, mycorrhizal fungi, plant growth-promoting rhizobacteria (PGPR), and leaf and seed endophytes. These microorganisms provide the plant with nitrogen and phosphorus in assimilable form, facilitate water uptake, produce plant hormones, and enhance the tolerance of plants to abiotic and biotic stresses. Probably the most well-known beneficial association is the nitrogen-fixing symbiosis between soil rhizobia and legume roots. However, other symbioses are also very relevant. Mycorrhizal fungi improve the nutrient status of their host plants and actinorhizal plants are used for timber and reclamation of degraded lands. Moreover, there is an upsurge of interest in the study of plant microbiomes and of mechanisms underlying the interactions of plants with fungal and bacterial endophytes because they enhance crop yield.

This Special Issue will comprise original research articles covering physiology, biochemistry, genetics, genomics, evolution and agricultural applications of beneficial microorganisms and of their host symbiotic partners.



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Special Issue



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Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in
Molecular and Integrative
Biosciences, Faculty of Biological
and Environmental Sciences,
University of Helsinki, P.O. Box
56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology
Institute, University of Valencia
and CSIC, 46980 Valencia, Spain

Message from the Editorial Board

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Contact Us

Biology Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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