

Special Issue

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

Message from the Guest Editors

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.

Guest Editors

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Dr. Isabel V. Castro

Prof. Dr. Jose Maria Vinardell

Dr. Ana Rincón

Deadline for manuscript submissions

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Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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