Special Issue Plant-Bacteria Interactions

Message from the Guest Editor

In the process of evolution, plants and their associated microbiomes, including bacterial populations, have established complex relationships, most of them with natures still unknown to us, that have determined the consideration of this aggrupation (plant and its microbiome) as a supra-organism termed holobiont. Within this supra-organism, a complex network of chemical signals is established, on whose balance the optimal survival of the holobiont depends, i.e., plant signals necessary for the colonization of the different environments within the host plant (endos-, phyllos-, and rhizosphere) by "plant selected bacteria"; plant/microbe signals that condition the establishment of other "undesired bacteria" in these environments; and plant/microbe signals resulting as consequence of this balanced interaction. Changes in the environmental conditions by a/biotic factors must affect this balance, conditioning the optimal survival of the holobiont. This Special Issue will help to decipher the chemical nature of this complex signalling network, and how it could be affected by changes in the environmental conditions.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 2023)



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"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.

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