

Special Issue

Molecular Research on Rhizobia

Message from the Guest Editors

Rhizobia, the main contributors to Biological nitrogen fixation (BNF), consist of a large group of α - and β -proteobacteria that can form symbiotic associations with leguminous plants, inducing the formation of plant nodules where nitrogen fixation takes place. During this symbiotic interaction, rhizobia must respond to a battery of signals and consequently undergo severe changes in their physiology, from free-living conditions in the soil to a symbiotic state within the highly specialized environment of a plant cell. Biotic and abiotic stresses also affect the fitness of symbiotic efficiency. Recent insights from multidisciplinary disciplines including microbiology, genetics, molecular biology, biochemistry, biodiversity, and omics sciences have improved our understanding of the molecular mechanisms underlying rhizobia-plant interactions, which serves as a basis for the development of biotechnological tools and sustainable agricultural practices. This Special Issue aims to bring together the latest developments and state-of-the-art molecular research in the field of rhizobia, with original articles and concise reviews by experts in the field.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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