



Advanced Research in Plant-Fungi Interactions

Guest Editor:

Dr. Jiangyun Gao

Institute of Biodiversity, School of
Ecology and Environmental
Science, Yunnan University,
Kunming 650500, China

Deadline for manuscript
submissions:

closed (23 April 2024)

Message from the Guest Editor

Dear Colleagues,

In the past decades, the plant-fungus interactions, including mycorrhizal, parasitic or endophytic lifestyles, have been extensively studied at various aspects and have greatly improved our understanding. Among them, the symbiotic association of mycorrhiza is commonly found in most of vascular plants, mainly including arbuscular mycorrhiza, ectomycorrhiza, ericoid mycorrhiza and orchid mycorrhiza. Mycorrhizal fungi benefit most plants by enhancing their nutrient access and stress tolerance, and therefore strongly affect plant population and community biology by regulating seedling establishment and species coexistence. In this Topic, the interactions between plants and fungi will be considered. This includes but no limits, functional omics, molecular communication, coevolution, ecological adaption and nutrient modes of plant-fungi interactions, and applications of fungi for sustainable environmental management and plant conservation.

This Special Issue on “Advance Research in Plant-Fungi Interactions” is open to all researchers studying this interaction at any level, from both the plant and the fungi side.

Dr. Jiangyun Gao

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

Contact Us

International Journal of Molecular
Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI