

Special Issue

Molecular Insights into Microbial Dynamics in Agroforestry for Resilience and Climate Adaptation

Message from the Guest Editors

The aim of this Special Issue is to explore the molecular dynamics of soil and rhizospheric microbes, their interactions with plants and pests, and the implications for agricultural and forestry landscapes, including microbial influence, molecular mechanisms, and challenges in pest management. The topic encourages submissions on the following topics but is not limited to the following.

- Molecular dynamics of soil or rhizospheric microbes in agricultural or forestry landscapes.
- Molecular mechanisms underlying plant-microbe interactions both above and belowground.
- Microbial Influence of plant-pest Interaction in Changing World.
- Molecular profiling of plant or tree-associated microbiomes.
- Molecular aspects of insect-microbe interactions.
- Molecular underpinnings of horizontal gene transfer enhancing environmental or host adaptability.
- Molecular approaches to microbe-mediated pest management methods and their challenges.

Guest Editors

Dr. Amrita Chakraborty

Faculty of Forestry and Wood Sciences, Czech University of Life Sciences Kamýcká 129, Suchbát, 165 21 Prague, Czech Republic

Dr. Amit Roy

Faculty of Forestry and Wood Sciences, Czech University of Life Sciences Prague, Kamýcká 129, 165 00 Prague, Czech Republic

Deadline for manuscript submissions

20 October 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/216008

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

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.

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

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 (Organic Chemistry)