

Special Issue

Advances in the Molecular Diagnostics of Agriculture Pathogens and Pests

Message from the Guest Editor

Plant pathogens and pests are a serious threat to agriculture in every country and induce the loss of billions of dollars globally on an annual basis. In order to minimize the damage done to crops during growth, these industries must develop harvest and postharvest processing techniques, as well accurate and cost-effective tools for the detection of pathogens and pests, in order to maximize productivity and ensure agricultural sustainability. Modern developments use high-throughput molecular detection strategies for the identification of these organisms. With the expansion of molecular diagnostic approaches in recent years, there are a lot of perspectives on the development and application of molecular diagnostics in crop protection. The molecular tools used in plant disease and pest diagnosis must be more reliable, faster and cheaper. This Special Issue of *IJMS* invites researchers to original research articles describing recent advances in the molecular diagnostics of plant pathogenic bacteria, fungi, viruses, and nematodes, as well as agriculturally important insects and mites. Critical reviews on this topic are also welcome in this Issue.

Guest Editor

Dr. Sergei A. Subbotin

California Department of Food and Agriculture, Plant Pest Diagnostic Center, 3294 Meadowview Road, Sacramento, CA 95832, USA

Deadline for manuscript submissions

closed (30 September 2024)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/167708

*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)* 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.

Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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, CAPus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)