Special Issue

Plant Responses to Heavy Metals

Message from the Guest Editor

The focus of this Special Issue on "Plant Responses to Heavy Metals" is primarily on the mechanisms underlying metal toxicity, metal tolerance, and metal (hyper-)accumulation phenomena, particularly in "metallophytes", i.e., plant species with the ability to genetically adapt to "metalliferous" soils. Special attention will be paid to the biochemical and molecular mechanisms underlying metal-specific "hypertolerance" and "hyperaccumulation" phenomena, i.e., the identification of the transporters and chelators involved in metal uptake, plant-internal transport and sequestration, as well as their activities and localization patterns at the levels of organs and tissues, and subcellularly. In particular, studies from an evolutionary viewpoint are highly appreciated. (How did the trait evolve? Why only in a small minority of plant species? Is this related to "chromosomal instability" (e.g., local duplication)? How?).

Guest Editor

Dr. Henk Schat Laboratory of Genetics, Wageningen University and Research, Droevendaalsesteeg 1, 6708 PB Wageningen, The Netherlands

Deadline for manuscript submissions

closed (31 December 2022)



International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



mdpi.com/si/105786

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





International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





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)