

Special Issue

Regulation on Nutrient Sensing, Signaling and Transport in Plants

Message from the Guest Editor

Plants have evolved highly effective transport, sensing and signaling systems to ensure acquisition of sufficient minerals for growth and development. This Special Issue entitled “Regulation on Nutrient Sensing, Signaling and Transport in Plants” aims to offer an insight into newly identified genes/regulatory pathways or metabolites involved in the regulation of ion homeostasis in plants. These include, but are not limited to: (i) effects of limitation or excess of various macro- and microelements on plant growth capacity; (ii) effects of components of global climate changes (drought, CO₂, heat, etc.) on the regulation of ions transport and assimilation. Guest editors, Hatem Rouached, welcome critical review articles as well as original research articles related to this topic. Please note that all accepted articles of this Special Issue will be available through free access, which offers the highest possible exposure of the published papers to the public.

Guest Editor

Dr. Hatem Rouached

The Plant Resilience Institute, Department of Plant, Soil and Microbial Sciences, Michigan State University, East Lansing, MI 48824, USA

Deadline for manuscript submissions

closed (20 February 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/146585

*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)