

Special Issue

Iron and Sulfur in Plants

Message from the Guest Editors

In recent years, environmental policies have led to the reduction of S-rich industrial emissions and, consequently, free S deposition to the soil. Thus, soils are progressively becoming S depleted, and the situation is worsening because the increased crop yields and production are using soil S reserves at greater rates. Although the uptake and assimilation pathway of S is well characterized, there are many unresolved questions concerning the regulation of its metabolism in response to both its availability in the environment and the demand of plants for it under certain environmental conditions. Recently, a significant interaction between S and Fe was observed, in which a deficiency in one of the two nutrients induces physiological modifications, allowing the adequate and balanced assimilation of the other. However, the comprehension of the mechanisms underlying the responses to this combined deficiency are still mostly lacking, even though some theories have been postulated. Therefore, Fe–S interplay should be exploited from both a scientific and an applicative point of view to provide both new knowledge and sustainable agricultural strategies.

Guest Editors

Dr. Stefania Astolfi

Department of Agriculture and Forest Sciences (DAFNE), University of Tuscia, 01100 Viterbo, Italy

Dr. Silvia Celletti

Department of Agricultural, Forest and Food Sciences (DISAFA), University of Turin, Turin, Italy

Deadline for manuscript submissions

closed (31 March 2020)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/31130

*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)