

Special Issue

Sensing, Regulation, and Signalling of Ascorbate in Plants

Message from the Guest Editor

A great deal of progress has been made in understanding plant ascorbate biosynthesis over the past two decades, and the importance of ascorbate in primary metabolism has been quite well established. The understanding of how ascorbate is regulated in plants has accelerated more recently, but there is still a great deal to be learnt. Key knowledge gaps are in the areas of how ascorbate is sensed and how changes in ascorbate can act in plant signaling and be integrated with other signaling networks, particularly calcium and phytohormone. Likewise, how changes in other signaling networks impact ascorbate is of interest. Therefore, the aim of the Special Issue is to summarize and broaden the knowledge in plant ascorbate regulation, sensing of changes in ascorbate levels, and integration with other signaling processes. Authors are invited to submit original research and review articles which address the areas discussed above. Dr. Sean Bulley

Guest Editor

Dr. Sean M. Bulley

Plant & Food Research, 412 No. 1 Road, RD 2, Te Puke 3182, New Zealand

Deadline for manuscript submissions

closed (15 January 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/88070

*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)