



plants



an Open Access Journal by MDPI

Iron Nutrition and Homeostasis in Plants

Guest Editors:

Dr. Hannetz Roschztardt

Faculty of Biological Sciences,
Pontificia Universidad Católica
de Chile, Santiago de Chile, Chile

Prof. Dr. Diego F. Gomez-Casati

Centre for Photosynthetic and
Biochemical Studies, National
University of Rosario, Rosario
2000, Argentina

Deadline for manuscript
submissions:

31 December 2024

Message from the Guest Editors

Dear Colleagues,

Iron is an essential micronutrient for life. Plants have developed strategies for its acquisition and its transport in the plant and cells. Homeostasis is a key mechanism that allows to drive an equilibrium between how much iron is needed and how plant cells lid with the iron excess. Iron excess can induce oxidative stress and cellular structure damage. How iron is transported through plant organs and in the cells is an active research area. Iron also is accumulated, in ferritins, vacuoles and other, in order to avoid iron excess and to provide sources of iron when iron is low. This special issue aims to describe new and interesting aspects of iron homeostasis in plants, an important topic in plant molecular physiology research.

Dr. Hannetz Roschztardt
Prof. Dr. Diego F. Gomez-Casati
Guest Editors



mdpi.com/si/208594

Special *issue*



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Dilantha Fernando
Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

Contact Us

Plants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)