Special Issue

Ascorbic Acid Biosynthesis, Recycling and Oxidation in Plants

Message from the Guest Editors

Ascorbic acid (AsA) is considered one of the most important antioxidants in plant tissues, being highly abundant and exerting crucial roles in plant adaptation to unfavourable environments by contributing to a cellular redox state. Although the identification and characterization of AsA metabolic pathways have been well established, there are still several gaps in our understanding of this putative orchestrator of plant responses. Recently, modification of AsA transcriptional and translational regulatory factors have emerged as a novel approach to increase AsA in crops. The Special Edition is open to research articles on plant and crop studies, aiming to provide all current and future perspectives regarding ascorbic acid biosynthesis, recycling and oxidation in plant tissues. Particularly welcome are research papers on the following topics:

- Biosynthesis and its regulation in plants;
- Novel AsA regulatory genes;
- AsA and DHA as key signalling molecules;
- AsA in abiotic and biotic stresses;
- AsA regeneration and its regulation;
- AsA oxidation: its regulation and consequences;
- AsA biofortification in plants;
- Genome edited plants.

Guest Editors

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About the Journal

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.

Editor-in-Chief

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