Special Issue

The Regulatory Role of Nitric Oxide in Plant Growth and Development

Message from the Guest Editors

Nitric oxide (NO) is a signaling molecule involved in a variety of physiological processes during plant growth and development and an important regulator of stress response. Extensive research in the last two decades has shown that NO is involved in seed germination, leaf expansion, root growth, stomatal closure and fruit maturation, et al. NO is a signaling molecule with multiple different regulatory functions in plant physiology and is one of the major players in plant signaling networks. In addition to its direct effects on metabolic enzymes and signaling proteins, NO can fulfill its signaling function via modification of the transcription machinery and chromatin structure. In this Special Issue of *Plants*, recent advances in the study of NO biology and biochemistry in plants will be presented, providing an overview of current understanding of the NO actions involved in plant growth and development. This includes NO-dependent signaling, molecular adjustments, and targets as key elements in plant physiology. The interaction between stress response and growth and development and the crosstalk between signaling pathways of NO and phytohormones will be highlighted.

Guest Editors

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Deadline for manuscript submissions

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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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