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Reactive Oxygen and Nitrogen Species in Plants

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Deadline for manuscript
submissions:
closed (15 August 2023)

Message from the Guest Editors

During the last few decades, the metabolism of reactive oxygen and nitrogen species (ROS and RNS) has acquired outstanding relevance in higher plant physiology. Previously, some of these ROS/RNS were considered toxic because they could cause nitro-oxidative damage; however, this concept has evolved since they also exert signaling functions among themselves and with other regulators (phytohormones, melatonin, hydrogen sulfide, etc.) being involved in many physiology processes ranging from seed germination to fruit ripening. Likewise, ROS and RNS are also involved in the mechanisms of response against biotic and abiotic stresses.

The present Special Issue on “**Reactive Oxygen and Nitrogen Species in Plants**” aims to provide a broad picture of the different areas where these families of molecules related to hydrogen peroxide (H₂O₂) and nitric oxide (NO) are involved. Therefore, all manuscripts that contribute to providing new insights in this area of research are welcome, including original research, reviews, as well as new hypotheses.



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Special Issue



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Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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