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ROS Homeostasis during Plant Growth and Development

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Deadline for manuscript submissions:
closed (20 January 2024)

Message from the Guest Editor

It has been shown that reactive oxygen species (ROS) gradients control stem cell fate in plants and that certain ROS species regulate cell proliferation and differentiation. Still, there is a lack of understanding around how plants maintain ROS gradients during development and how ROS homeostasis is modulated during growth. This Special Issue welcomes the submission of papers that cover molecular processes and mechanisms that modulate growth and development through the regulation of ROS homeostasis in plants. In addition, insights into the regulation of adaptive growth processes that involve ROS homeostasis during stress acclimation are also warmly welcomed. Researchers are welcome to submit significant contributions as research articles/review articles to this 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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