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Nitric Oxide (NO) and Hydrogen Sulfide (H₂S) in Higher Plants under Physiological and Stress Conditions

Guest Editor:

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Message from the Guest Editor

Nitric oxide (NO) and hydrogen sulfide (H₂S) are two gasotransmitters endogenously generated in plant cells. Both gasotransmitters have families of related molecules designated reactive nitrogen species (RNS) and reactive sulfur species (RSS). Their mechanism of action is through posttranslational modifications such as S-nitrosation, nitration, or persulfidation affecting the redox status and function of the target proteins. Thus, NO and H₂S mediate several signaling networks and are key elements in biochemistry and physiology of plants.

The present Special Issue of *Antioxidants* aims to provide the most recent findings about the function of these two gasotransmitters in higher plants and it is opened to different types of manuscripts including original research papers, perspectives, or reviews where either NO, H₂S, or related molecules could be involved at biochemical or physiological levels.



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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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