



Nitric Oxide and ROS as Regulators of Post-translational Modifications in Plants

Guest Editors:

Dr. Juan B. Barroso

Dr. Mounira Chaki

Dr. Juan C. Begara-Morales

Dr. Raquel Valderrama

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Message from the Guest Editors

In recent years, the interest of the scientific community has focused on the study of NO-bioactivity highlighting the identification and characterization of NO-mediated post-translational modifications (NO-PTMs) of proteins and the effect they have on biological activity in plant cells. In fact, NO and ROS share signaling pathways, and it is not surprising that there are cross-talk pathways that enable them to control each other's functions. However, little information is available on the initiation of the signaling events mediated by NO and ROS, the mechanisms involved in the perception and the specificity of the generated signal, as well as the regulation of the delicate balance between production and scavenging of reactive oxygen and nitrogen species.

This Special Issue aims to publish original research and review papers on aspects of ROS and NO-derived PTMs such as carbonylation, glutathionylation, sulfhydryl oxidations, nitration, S-nitrosylation, and nitroalkylation, emphasizing the importance of the interplay between their signaling pathways in plants under physiological and stress situations.





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Editor-in-Chief

**Prof. Dr. Alessandra
Napolitano**

Department of Chemical
Sciences, University of Naples
"Federico II", Via Cintia 4, I-80126
Naples, Italy

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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Antioxidants Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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