



## Regulation of Autophagy under Stress

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### Message from the Guest Editors

Autophagy is a conserved degradative mechanism essential for cellular homeostasis in eukaryotic organisms. Autophagy is a highly dynamic process that occurs at basal levels, and it might be induced to overcome cell stresses, playing a role in both physiological and pathological processes. In animal systems, the importance of autophagy regulation is linked to its involvement in biologic processes such as aging, neurodegeneration, cardiovascular diseases, and cancer. In plants, autophagy is involved in development, immune response, and senescence, but it is also induced in response to stress conditions. However, the understanding of the molecular mechanisms of autophagy regulation is still in significant development, including the involvement of gasotransmitters and small signaling molecules, such as those produced under ROS, RNS and RSS. Therefore, further insights into the regulatory mechanism of autophagy under stress are required to improve the development of therapies and strategies for overcoming the challenges from environmental stresses.





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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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