

Special Issue

Redox Metabolism in Ecophysiology and Evolution

Message from the Guest Editors

Oxidative stress is considered a key influence on the life history of living organisms. Not surprisingly, environmental stresses might disrupt redox balance, triggering compensatory adaptive responses. The modulation of redox metabolism has been documented for phylogenetically diverse species exposed to a myriad of environmental stressors, such as warming, freezing, dehydration, exposure to UV radiation, exposure to pollutants, and variations in oxygen availability. Under natural settings, several of these environmental factors fluctuate within variable time frames. Understanding the adaptive responses of antioxidant systems to environmental perturbation is essential for elucidating the role of oxidative stress in the ecology and adaptiveness of a given taxon. This Special Issue focuses on the responses of the redox metabolism in organisms exposed to changes in single or combined, biotic or abiotic, environmental factors (e.g., oxygen availability, temperature, drought, radiation, and pollutants). Submissions addressing evolutionary and ecological implications of redox metabolism responses are especially welcome.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2023)



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About the Journal

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.

Editor-in-Chief

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