

Special Issue

Redox Regulation of Membrane Transporters: Mechanisms and Implications

Message from the Guest Editor

Membrane transport systems are essential components of cellular and systemic homeostasis. Mutations in specific transport proteins are linked to a number of hereditary diseases, such as cystic fibrosis and Wilson's disease. Also, changes in the activity or regulation of specific membrane transporters occur in a number of other human diseases, including diabetes mellitus and cancer. Given the importance of membrane transport mechanisms in body homeostasis, knowledge of the mechanisms that can interfere with their activity and the implications for human health is of major importance.

The cellular redox potential interferes with membrane transport systems, but knowledge in this area is still very limited. In this Special Issue, the interaction between the cellular or mitochondrial redox potential and membrane transporters will be explored. Potential topics include, but are not limited to, the following:

- The mechanisms involved in the regulation of membrane transporters by the redox potential;
- The influence of redox-active compounds on membrane transporters.

Guest Editor

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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.

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