Special Issue

Superoxide Dismutase in Health and Disease

Message from the Guest Editor

Superoxide is one of the main reactive oxygen species produced by living cells, most eukaryotic organisms require oxygen to survive. Eukaryotic cells evolved defense mechanisms against superoxide, which is known as the superoxide dismutase (SOD) system. Impairment of any of SODs mostly lead to cellular damage, malfunction, and death, which lead to development of disease. Changes in SODs expression and activity have been linked to many diseases including aging, cancer, cardiovascular, and neurodegenerative diseases. This Special Issue is seeking quality original research papers and reviews that introduces new discoveries and broaden our understanding to the role of SODs in health and disease on the cellular and molecular level, and the application of this knowledge in preserving health and treating disease. The subjects of the research can include any of the SOD enzymes and the emerging field of SOD mimics. We welcome research papers that introduce new discoveries and concepts or expand on the current knowledge and research with new insights and approaches.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2021)

Antioxidants

an Open Access Journal by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed

mdpi.com/si/42805

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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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