Special Issue

Mitochondrial Reactive Oxygen Species

Message from the Guest Editor

Beyond chemiosmotic oxidative phosphorylation itself, mitochondrial redox biology is central to many fundamental biological processes. For example, complex I catalysed superoxide production by reverse electron transfer (RET) seems to play a critical role in oxygen sensing in the carotid body. The very same mechanisms can, however, underlie pathology. For example, succinate fuelled RET underlies much oxidative damage in an ischemia-reperfusion-injury context. Accordingly, the special issue entitled "Mitochondrial Reactive Oxygen Species" in *Antioxidants* welcomes original work and review articles addressing: (I) the basic mechanisms of mitochondrial ROS production and metabolism; (II) the basic mechanisms of redox signalling and oxidative damage, with a particular focus on thiols; and/or (III) studies addressing the role of ROS in a particular biological process (ideally using redox active mitochondria targeted tools). Additionally, work focusing on how to assess mitochondrial ROS is also welcome. It is hoped that the special issue advances current knowledge, provides a useful resource, and stimulates further work in this fascinating area.

Guest Editor

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Deadline for manuscript submissions

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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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