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Mitochondrial Reactive Species in Physiology and Pathology

Guest Editor:

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Deadline for manuscript submissions:
closed (31 January 2022)

Message from the Guest Editor

From the first definition of “stress” in 1925 by Hans Selye, the “oxidative stress” definition from the redox pioneer Helmut Sies in 1985, and the “oxidative eustress and distress” definition in 2017 by Helmut Sies, to the most recent definition, Reactive Species Interactome, in 2017 by Cortese-Krott et al., there are still many unanswered questions and perspectives concerning physiology and pathology, including in the respiratory organelle, mitochondria.

A deeper understanding of oxidative eustress and distress is important through the reactive oxygen species, the reactive nitrogen species, the reactive sulfur species, and the reactive carbonyl species.

Authors are invited to submit their latest findings or review articles to this Special Issue, which will bring together current research concerning the roles of the mitochondrial reactive species in bioenergetic metabolism, cell death, calcium homeostasis, and a variety of other mechanisms. The article must include at least two different reactive species families, and can include both in vitro and in vivo studies.

I look forward to your contribution.

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Editor-in-Chief

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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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