

Special Issue

Mitochondria Biology in Reproductive Function

Message from the Guest Editors

Mitochondria are multitasking organelles involved in a wide range of processes central to cell functions. They are crucial for intracellular redox regulation, calcium signaling, and cell death. By integrating signaling networks, mitochondria activate an adaptive response to stress and provide the energy necessary to sustain homeostasis. Mitochondria are crucial in many sperm functions, including motility, hyperactivation, capacitation, acrosome reaction, and fertilization; thus, their role is considered to be highly relevant to reproductive function. However, the overall mitochondrial impact on female and male fertility and the potential of therapeutic attempts to restore mitochondrial function are yet to be uncovered. We invite you to submit research or review articles to this Special Issue, which will bring together current findings concerning mitochondrial activities involved in reproductive function under normal and diseased states as well as potential strategies to mitigate mitochondrial dysfunction. It is hoped that the Special Issue provides a useful resource and stimulates further work in this fascinating area.

Guest Editors

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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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