

Special Issue

Reactive Oxygen Species and Male Fertility

Message from the Guest Editor

Oxidative stress promotes damage in the lipids, proteins, and DNA of spermatozoa, and this oxidative damage is associated with infertility. The ROS-dependent damage could occur at different stages of the production and maturation of the sperm. Thus, spermatogenesis, epididymal maturation, or the processes needed to acquire fertilizing ability can be affected by oxidative stress. On the other hand, low and controlled levels of ROS are necessary to trigger and regulate sperm function. ROS regulate the different molecular mechanisms such as sperm motility, capacitation, and acrosome reaction to assure fertilization. This Special Issue welcomes original research and literature reviews concerning the role of reactive oxygen species in the following areas: spermatogenesis, epididymal maturation, sperm motility, capacitation, acrosome reaction, and male fertility. Moreover, the role of antioxidants in the regulation of male fertility as well as basic and clinical studies using antioxidant-based strategies for the treatment of male infertility are also welcome.

Guest Editor

Dr. Cristian O'Flaherty

Department of Surgery (Urology Division), Faculty of Medicine, McGill University, Montreal, QC, Canada

Deadline for manuscript submissions

closed (6 December 2019)



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



mdpi.com/si/25433

Antioxidants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antioxidants@mdpi.com

[mdpi.com/journal/
antioxidants](https://mdpi.com/journal/antioxidants)





Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



[mdpi.com/journal/
antioxidants](https://mdpi.com/journal/antioxidants)



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

Prof. Dr. Alessandra Napolitano

Department of Chemical Sciences, University of Naples “Federico II”,
Via Cintia 4, I-80126 Naples, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, FSTA, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Chemistry, Medicinal) / CiteScore - Q1 (Food Science)