antioxidants

IMPACT FACTOR 7.0 | Indexed in: PubMed | CITESCORE 8.8

an Open Access Journal by MDPI

Antioxidants in Male Human and Animal Reproduction: In Vitro and In Vivo Studies

Guest Editors:

Dr. Elena Moretti
Department of Molecular and Developmental Medicine, University of Siena, 53100 Siena, Italy

Dr. Cinzia Signorini
Department of Molecular and Developmental Medicine, University of Siena, 53100 Siena, Italy

Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editors

Oxidative stress (OS) affects the quality of gametes and plays a central role in the pathogenesis of male infertility. Treatment strategies for OS include the use of both synthetic and natural antioxidants administered in vivo and used in vitro, for example, cell supplement in culture and cryopreservation media. In the last few years, various interesting bioactive factors have demonstrated a protective antioxidant effect worthy of investigation in the field of animal and human reproduction. Studies on the effects of diets supplemented with different antioxidant molecules in animal models may represent a starting point for managing male infertility.

- In vitro studies of antioxidants in human and animal sperm;
- Relevance of antioxidants in semen cryopreservation and semen handling;
- Antioxidants and spermatogenesis;
- Antioxidant effect on human male infertility—mechanisms, molecular signaling, sperm quality;
- Molecular effects of antioxidants on male reproduction—investigations in animal models;
- Relevance of constitutive antioxidants in male infertility and animal models;
- Antioxidant-based diet in animal model of male infertility.

antioxidants

IMPACT FACTOR 7.0 | Indexed in: PubMed | CITESCORE 8.8

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Alessandra Napolitano
Department of Chemical Sciences, University of Naples "Federico II", Via Cintia 4, I-80126 Naples, Italy

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.

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 (*Food Science & Technology*) / CiteScore - Q1 (*Food Science*)

Contact Us

Antioxidants Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/antioxidants
antioxidants@mdpi.com
𝕏@antioxidants_OA