



Oxidative Stress, Pregnancy and Pregnancy-Related Diseases

Guest Editors:

Prof. Dr. Carmen M Vázquez

Departamento de Fisiología,
Facultad de Farmacia,
Universidad de Sevilla, E-41012
Sevilla, Spain

Prof. Dr. Luis Sobrevia

Cellular and Molecular
Physiology Laboratory (CMPL),
Department of Obstetrics,
Division of Obstetrics and
Gynaecology, Pontificia
Universidad Católica de Chile,
Marcoleta 391, Santiago 8330024,
Chile

Deadline for manuscript
submissions:

closed (31 May 2022)

Message from the Guest Editors

Pregnancy is a physiological process that is associated with increased oxidative stress. A supraphysiological increase in oxidative stress is present in several tissues during pregnancy, but it is particularly focused on the human placenta, which results in vascular dysfunction and leads to disturbances in the supply of nutrients to the growing fetus. Furthermore, oxidative stress is a condition that alters crucial cell signalling mechanisms involved in the development of pregnancy and gestational diseases, including the regulation of vascular tone. Oxidative stress leads to modifications in the structure and function of biomembranes, cytoskeleton, proteins, and DNA, with a determinant impact on mitochondrial biogenesis and oxidative phosphorylation. Therefore, balanced generation of prooxidant/antioxidant species is required for a healthy pregnancy. This Special Issue aims to summarize the role of oxidative stress in the etiology and development of normal pregnancy and diseases of pregnancy and the defence mechanisms involved in these processes.





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](#)