

Special Issue

Natural Antioxidants in Animal Immunity

Message from the Guest Editors

Antioxidant defense systems are essential for maintaining optimum health in animals. In the current intensive animal production systems, the environment, unbalanced nutrition, administration of drugs, and physical and physiological stress cause an adverse effect on the immune function of different animal species, with the emergence and re-emergence of diseases. These phenomena affect the animal health and decrease the animal production efficiency, thereby increasing production costs. A better understanding of immune-system development and the factors that affect the immune system can lead to the production of more-resilient animals with increased immune competence. Novel multidisciplinary collaborative research programs that integrate, e.g., animal nutrition, mucosal immunology, cell metabolism, and molecular biology are, therefore, urgently needed. Antioxidants such as polyphenols, antioxidant vitamins (C, E, A), and minerals (iron, zinc, selenium) generally enhance cellular and noncellular immunity by maintaining the functional and structural integrity of immune cells. Antioxidants may provide the strategic future of industry, ensuring health in humans and animals.

Guest Editors

Prof. Dr. Xiang Zhong

Prof. Dr. Xin Wu

Dr. Vanessa Leone

Dr. Lili Zhang

Dr. Dan Wan

Deadline for manuscript submissions

closed (30 November 2022)



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



mdpi.com/si/121495

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, CAPIus / SciFinder, and other databases.

Journal Rank:

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