

Special Issue

Redox Homeostasis in Poultry/Animal Production

Message from the Guest Editor

This special issue would be devoted to redox homeostasis maintenance in poultry/animal production. Such as:

- Molecular mechanisms of redox balance regulation
- Redox homeostasis and immunity
- Oxidative stress, antioxidant defences and inflammation
- Commercial stresses, redox balance and gut health
- Redox balance, microbiota and animal/poultry health
- Dietary selenium, selenoproteins and stress adaptation in farm animals and poultry
- Vitamin E, as a headquarter of the antioxidant defence network
- Carotenoids: is there biological requirement for them in poultry and farm animals?
- Carnitine and taurine: new entrants into the antioxidant family and their roles in redox homeostasis maintenance
- Redox homeostasis and meat quality
- Redox balance, antioxidant defences and male reproduction
- Redox homeostasis during chicken embryonic development and mammal's pregnancy and its regulation
- Nrf2 in poultry and animal production: a conductor of the antioxidant defence orchestra
- NF- κ B as a marker and regulatory hub in redox balance maintenance in farm animals and poultry
- Vitagenes in redox balance maintenance

Guest Editor

Prof. Dr. Peter F. Surai

Vitagene and Health Research Centre, 53 Dongola Road, Ayr KA7 3BN, UK

Deadline for manuscript submissions

15 June 2025



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.0
CiteScore 10.6
Indexed in PubMed



mdpi.com/si/183754

Antioxidants

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 6.0
CiteScore 10.6
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)