



Redox Homeostasis in Poultry/Animal Production

Guest Editor:

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Deadline for manuscript
submissions:

closed (15 June 2025)

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-kB as a marker and regulatory hub in redox balance maintenance in farm animals and poultry
- Vitagenes in redox balance maintenance





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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.

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