



an Open Access Journal by MDPI

## Bridging Oxidative Stress and Aberrant Nutrient Metabolism in Metabolic Diseases

Guest Editors:

### Dr. Ashley K. Putman

1. Department of Large Animal Clinical Sciences, College of Veterinary Medicine, Michigan State University, 784 Wilson Road, East Lansing, MI 48823, USA

2. Hypertension and Vascular Research Division, Henry Ford Hospital, 6135 Woodward Avenue, Detroit, MI 48202, USA

### Dr. Emilio Mottillo

1. Hypertension and Vascular Research Division, Henry Ford Hospital, 6135 Woodward Avenue, Detroit, MI 48202, USA

2. Department of Physiology, Wayne State University, 540 E Canfield St., Detroit, MI 48202, USA

Deadline for manuscript submissions:  
**closed (30 November 2023)**

### Message from the Guest Editors

Both humans and animals are afflicted with a variety of metabolic diseases, representing medical and economic concerns to the global community. Organisms rely heavily on the tight coordination of redox reactions and nutrient metabolism to maintain cellular function. However, during nutrient excess, reactive metabolites can overwhelm antioxidant defenses, inflammation can become protracted and nutrient metabolism can become altered, promoting metabolic health disorders (e.g., metabolic syndrome/stress, cardiometabolic disease). Indeed, growing evidence suggests that oxidative stress, dysregulated inflammation, and aberrant nutrient metabolism are major underlying components of metabolic disease pathophysiology. As each factor not only contributes to disease pathogenesis individually but also in concert with one another, it is important to understand the complex relationship between them to better understand metabolic health disorders.

We encourage to contribute original articles and reviews that discuss the intimate role of oxidative stress, dysregulated inflammation, and aberrant nutrient metabolism in metabolic diseases of humans and animals.



[mdpi.com/si/162523](https://mdpi.com/si/162523)



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](http://www.mdpi.com)

[mdpi.com/journal/antioxidants](http://mdpi.com/journal/antioxidants)  
[antioxidants@mdpi.com](mailto:antioxidants@mdpi.com)  
[X@antioxidants\\_OA](https://twitter.com/antioxidants_OA)