

## Special Issue

# Advances in the Astonishing World of Phytochemicals: State-of-the-Art for Antioxidants—2nd Edition

### Message from the Guest Editors

Several studies have shown that plants are a source of a plethora of bioactive compounds, such as phytohormones, glycosides, terpenoids, alkaloids, phenolic compounds, and essential oils, with a strong potential impact in the fields of pharmaceuticals and agriculture. These phytochemicals represent a valuable set of weapons that plants use in self-defense to counteract abiotic stresses disturbing the delicate equilibrium between the generation of reactive oxygen species (ROS) and antioxidant defense systems. These subjects were the main focus of our previous Special Issue, “Advances in the Astonishing World of Phytochemicals: State-of-the-Art for Antioxidants”, which attracted the attention of many researchers and enjoyed a successful publication, with 17 papers being published in total. The great interest shown by researchers to the first Special Issue encouraged us to create Volume 2. We invite investigators to propose reviews or original research articles concerning the most recent advances in the study of the antioxidant molecular mechanisms able to be activated by plant-derived phytochemicals and which have potential pharmacological and agricultural applications.

---

### Guest Editors

Prof. Dr. Antonella D'Anneo

Laboratory of Biochemistry, Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), University of Palermo, 90127 Palermo, Italy

Prof. Dr. Marianna Lauricella

Section of Biochemistry, Department of Biomedicine, Neurosciences and Advanced Diagnostics (BIND), University of Palermo, 90127 Palermo, Italy

---

### Deadline for manuscript submissions

closed (31 December 2024)



## Antioxidants

---

an Open Access Journal  
by MDPI

---

Impact Factor 6.6  
CiteScore 14.7  
Indexed in PubMed



[mdpi.com/si/179900](https://mdpi.com/si/179900)

*Antioxidants*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[antioxidants@mdpi.com](mailto:antioxidants@mdpi.com)

[mdpi.com/journal/  
antioxidants](https://mdpi.com/journal/antioxidants)





# Antioxidants

---

an Open Access Journal  
by MDPI

---

Impact Factor 6.6  
CiteScore 14.7  
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 (Clinical Biochemistry)