

## Special Issue

# Plant and Algal Antioxidants in Stress Defence

### Message from the Guest Editors

This Special Issue will focus on bioactive compounds of plant and algal origin with pronounced antioxidant properties and their role in protecting cells and organisms from various forms of stress, including oxidative, environmental, biotic and abiotic stress. We aim to synthesize contemporary research that explains the mechanisms of action, biosynthesis, regulation and biological effects of these compounds, as well as their roles in signalling networks, defence responses and adaptation processes. Particular attention will be given to the relationship between the structure and function of antioxidants and their potential for biotechnological and industrial applications in nutrition, pharmacy and medicine. We also encourage papers that bridge basic and applied research, using interdisciplinary approaches such as “omics” technologies, advanced microscopy, analytical chemistry, biochemistry and molecular biology. Our aim is to deepen the understanding of antioxidant systems in plants and algae and highlight their potential in protecting the environment and human health.

### Guest Editors

Dr. Petra Peharec Štefanić

Department of Biology, Faculty of Science, University of Zagreb,  
Horvatovac 102a, HR-10000 Zagreb, Croatia

Dr. Bruno Komazec

Department of Biology, Faculty of Science, University of Zagreb,  
Horvatovac 102a, HR-10000 Zagreb, Croatia

### Deadline for manuscript submissions

closed (20 May 2026)



## Antioxidants

an Open Access Journal  
by MDPI

Impact Factor 6.6  
CiteScore 12.4  
Indexed in PubMed



[mdpi.com/si/261068](https://mdpi.com/si/261068)

*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 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)