

Special Issue

Reactive Oxygen Species Signalling and Oxidative Stress in Fish

Message from the Guest Editors

Reactive oxygen species (ROS) has classically been considered to represent an important source of molecular and cellular damage and toxicity. Various fish species have become increasingly popular as animal models for studying the effects of ROS in the contexts of both toxicology and normal physiology. We are pleased to invite you to submit your research to a Special Issue focused on “Reactive Oxygen Species Signalling and Oxidative Stress in Fish”. This Special Issue will explore the latest advancements in our understanding of the toxic and physiological effects of ROS within the largest and most diverse of all vertebrate groups. We welcome original research articles and reviews that cover, but are not limited to, the following topics:

- The contribution of ROS to the toxic effects of various important pollutants;
- How ROS act to mediate the effects of environmental stressors on animal physiology;
- The role of ROS in immune cell functions;
- The contribution of oxidative stress to the regulation and functions of metabolic systems.

If your research aligns with these topics, then we encourage you to contribute to this exciting Special Issue

Guest Editors

Dr. Daniela Vallone

Institute of Biological and Chemical Systems, Karlsruhe Institute of Technology, 76344 Eggenstein-Leopoldshafen, Germany

Prof. Dr. Nicholas S. Foulkes

Institute of Biological and Chemical Systems, Karlsruhe Institute of Technology, 76344 Eggenstein-Leopoldshafen, Germany

Deadline for manuscript submissions

30 September 2025



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



mdpi.com/si/236166

Antioxidants
Editorial Office
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 6.6
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, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Chemistry, Medicinal) / CiteScore - Q1 (Food Science)