

Special Issue

Oxidative Stress Response in Archaea

Message from the Guest Editors

Archaea have deep roots in methanogenesis, an oxygen-sensitive form of carbon and energy metabolism yet are best known for their ability to thrive in extreme conditions, including those that promote extensive oxidative damage such as extreme acid, heavy metals, desiccation, UV exposure, and hypersalinity. Not all archaea are extremophiles, including members of the human microbiome and the Earth's largest biome, the ocean. Yet archaea, even in these mild conditions, are battling oxidative stress. While oxygen sensitivity appears deeply rooted in the origins of Archaea through methanogenesis, certain members of this domain of life thrive in some of the most oxidizing conditions on this planet. This apparent array of mechanisms used by Archaea to respond to oxidative stress combined with their evolutionary relationship within the tree of life make the study of Archaea ideal to advance knowledge of the origins and mechanisms of how cells respond to oxidative stress. This Special Issue is dedicated to "Oxidative Stress Responses in Archaea". Colleagues are cordially invited to contribute original research papers or reviews to this Special Issue.

Guest Editors

Prof. Dr. Julie A. Maupin-Furlow

Department of Microbiology and Cell Science, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, FL 32611, USA

Prof. Dr. Jocelyne DiRuggiero

Department of Biology, Johns Hopkins University, Baltimore, MD 21218, USA

Deadline for manuscript submissions

closed (30 September 2021)



Antioxidants

an Open Access Journal
by MDPI

Impact Factor 6.6
CiteScore 12.4
Indexed in PubMed



mdpi.com/si/36651

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, CAPIus / SciFinder, and other databases.

Journal Rank:

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