

Special Issue

Oxidative Stress and Inflammation in Cardiovascular Disease

Message from the Guest Editor

Growing bodies of evidences indicate that oxidative stress and inflammation are intricately linked mechanisms and are significant drivers in the development and progression of cardiovascular disease. Oxidative stress also causes myocardial tissue damage and inflammation, contributing to heart failure progression, while a subclinical inflammatory state may be caused by heart failure comorbidities such as obesity or diabetes mellitus. The close interaction of inflammation with oxidative stress is corroborated by clinical data reporting an aggravated inflammatory phenotype in the absence of antioxidant defense proteins (e.g., superoxide dismutases, heme oxygenase-1, and glutathione peroxidases) or overexpression of reactive oxygen species producing enzymes (e.g., NADPH oxidases) and a normalization of oxidative stress exerted by antiinflammatory drugs in cardiovascular diseases. This Special Issue is calling both original articles and reviews providing to the readers of IJMS a comprehensive, deep understanding of our current knowledge on oxidative stress and inflammation in cardiovascular diseases.

Guest Editor

Dr. Ada Popolo

Department of Pharmacy, University of Salerno, 84084 Fisciano, SA, Italy

Deadline for manuscript submissions

closed (31 December 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/136847

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

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





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, 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, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore
- Q1 (Organic Chemistry)