



Nitric Oxide: Physiology, Pharmacology, and Therapeutic Applications

Guest Editor:

Prof. Dr. Khosrow Kashfi

Department of Molecular,
Cellular and Biomedical
Sciences, Sophie Davis School of
Biomedical Education, City
University of New York School of
Medicine, New York, NY 10031,
USA

Deadline for manuscript
submissions:

closed (30 April 2021)

Message from the Guest Editor

Nitric oxide, a gaseous free radical, is one of the ten smallest molecules found in nature. NO regulates vascular relaxation, controls inflammation, and suppresses expression of pro-inflammatory mediators in mast cells, macrophages, and vascular smooth muscles. NO regulates blood flow and modulates platelet and leukocyte activation, adhesion, and aggregation. The role of NO in cancer biology has been perplexing, as both tumor promotion and inflammatory activities as well as anti-tumor and anti-inflammatory properties have been described. This paradox has been explained in terms of a dual effect that is dependent on the local flux. In 1992, the journal *Science* referred to NO as the “Molecule of the Year”. The important role that NO plays in human biology was recognized in 1998 when the Nobel Prize in Physiology and Medicine was awarded to Robert F. Furchgott, Louis J. Ignarro, and Ferid Murad for establishing NO as a messenger molecule.

This Special Issue invites state-of-the-art reviews and original research articles to help advance our understanding of the role that NO plays in physiology and pharmacology, which may lead to applications against various diseases.





an Open Access Journal by MDPI

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

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.

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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI