

## Special Issue

# Nitric Oxide: Physiology, Pharmacology, and Therapeutic Applications

### 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.

---

### 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)



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 10.0  
Indexed in PubMed



[mdpi.com/si/31902](https://mdpi.com/si/31902)

*International Journal of  
Molecular Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto: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 10.0  
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)* 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, and molecular biophysics. *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. José L. Quiles

Department of Physiology, Institute of Nutrition and Food Technology  
"Jose Mataix", Biomedical Research Center, University of Granada,  
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

---

### 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, CAPus / SciFinder, and other databases.

#### Journal Rank:

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