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

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Deadline for manuscript submissions

closed (30 April 2021)



International Journal of Molecular Sciences

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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

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