

Special Issue

Lipid Signaling Pathways in Drug Delivery and Therapeutics

Message from the Guest Editor

Lipids, one of the basic building blocks of life, play a critical role in organismal physiology. Several classes of lipids and their downstream metabolites act as secondary messengers. These molecules interact with a variety of cellular targets including G-protein-coupled receptors, ion channels, nuclear receptors, kinases, etc. However, these endogenous lipids often have poor drug-like properties, since they are highly lipophilic with scarce water solubility, metabolically unstable, and poorly bioavailable. Therefore, it would be valuable to design novel molecules such as enzyme inhibitors that stabilize endogenous lipid mediators (e.g., ibuprofen) and mimics that act as agonists or antagonists of lipid signalling pathways. In addition, novel drug delivery systems could be developed to directly administer these specific molecules to target organs. In this Special Issue, we aim to present and discuss novel therapies targeting lipid signalling pathways. **Keywords** Lipid signalling molecules Enzyme inhibitors Agonist Antagonist Drug discovery and development Drug design

Guest Editor

Dr. Kin Sing Stephen Lee

Department of Pharmacology and Toxicology, Michigan State University, East Lansing, MI 48824, USA

Deadline for manuscript submissions

closed (28 February 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 8.1
Indexed in PubMed



mdpi.com/si/59576

*International Journal of
Molecular Sciences*
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 8.1
Indexed in PubMed



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

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 (Inorganic Chemistry)