

Special Issue

MAPK in Health and Disease

Message from the Guest Editor

Mitogen-activated protein kinases (MAPKs) are serine-threonine protein kinases that play crucial roles in various biological processes, including cell proliferation, differentiation, apoptosis or survival, inflammation, and immunity. In mammals, the canonical MAPKs include c-Jun N-terminal kinases (JNK1/2/3), p38 MAPKs (which consist of the p38 α , p38 β , p38 δ , and p38 γ isoforms), and extracellular signal-regulated kinases (ERK1/2/5).

Additionally, atypical MAPKs such as ERK3/4, ERK7/8, and Nemo-like kinase (NLK) have been identified.

Together, these MAPKs regulate numerous substrates, including members of a family of Ser/Thr protein kinases known as MAPK-activated protein kinases (MAPKAPKs). Dysregulation of MAPK pathways is associated with a variety of diseases, including cancer, chronic inflammatory conditions, and neurodegenerative disorders. This Special Issue aims to emphasize the role of MAPKs in human diseases and explore strategies for targeting these pathways to mitigate the impact of their deregulation on human health.

Guest Editor

Dr. Francisco Centeno

Department of Biochemistry, Molecular Biology and Genetics, Faculty of Sciences, University of Extremadura, 06006 Badajoz, Spain

Deadline for manuscript submissions

closed (31 January 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/88903

*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)* 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 (Organic Chemistry)