

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



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*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
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