

Special Issue

Targeting MAPK in Human Diseases

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, and extracellular signal-regulated kinases (ERK1/2/5). Dysregulation of MAPK pathways is associated with a variety of diseases, including cancer, chronic inflammatory conditions, and neurodegenerative disorders. Among the many factors involved in regulating the duration, magnitude, and spatiotemporal profiles of MAPK activity, dual-specificity phosphatases (DUSPs) play a crucial role by dephosphorylating key signaling molecules, including MAPKs. 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. Elisabetta Rovida

Dipartimento di Scienze Biomediche, Sperimentali e Cliniche, University of Florence, Florence, Italy

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. José L. Quiles
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