

Special Issue

Molecular Pharmacology of Protein Kinase Inhibitor

Message from the Guest Editor

Protein kinases are pivotal enzymes in intracellular signaling, regulating essential physiological processes such as cell growth, differentiation, apoptosis, and metabolism through protein phosphorylation. With over 500 kinases forming a complex regulatory network, their dysregulation is implicated in various diseases, including cancer, neurodegenerative disorders, and cardiovascular conditions. This Special Issue will highlight recent advancements in kinase-targeted therapies, focusing on: (1) selective and allosteric kinase inhibitors; (2) structural insights into kinase-inhibitor interactions; (3) resistance mechanisms and strategies to overcome them; (4) novel kinase inhibitor development; (5) preclinical/clinical evaluation; (6) combination therapies and biomarker discovery; (7) computational modeling for optimization; and (8) toxicity profiles and pharmacovigilance studies.

Guest Editor

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Deadline for manuscript submissions

20 September 2026



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/233140

*International Journal of
Molecular Sciences*
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