

Special Issue

Kinase Signal Transduction 3.0

Message from the Guest Editor

Protein kinases phosphorylate a wide variety of substrates, the phosphorylation of which changes their conformation, activity, stability, intracellular localization, and affinity to other molecules. Therefore, protein kinases are critical for various biological functions and cellular processes, such as signal transduction, transcription, protein degradation, vesicle transport, cell growth and death, stress response, immunoregulation, and metabolism. Various types of protein kinases and their regulators have been identified and play a pivotal role in the determination of cell fate. Dysregulation of the protein kinase signal transduction leads to various diseases, including cancer, inflammation, autoimmune disorder, neurodegeneration, heart failure, ischemia, and diabetes, indicating that protein kinases and their regulators are important therapeutic targets for these diseases. This Special Issue, “Kinase Signal Transduction”, welcomes contributions in all areas of recent and current research associated with novel physiological and pathological functions and regulatory mechanisms of protein kinases

Guest Editor

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