



## Research on Intracellular Signal Transduction Systems

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### Message from the Guest Editor

A variety of extracellular stimuli induce specific cell responses, such as proliferation, differentiation, survival, and death, in virtually all types of cells. Receptors, when occupied by their extracellular ligands, transduce signals into the cell by diverse mechanisms, including the production of second messengers, protein–protein interactions, and post-translational modifications of signaling proteins, leading to gene expression, cytoskeletal rearrangements, and so on. Some of the signaling pathways and their components are common in many types of cells, while others are unique to specific cell types. In addition, aberrations in the intracellular signaling systems of human cells are intimately associated with the development and progression of diseases such as cancer, cardiovascular disease, neurodegenerative disease, and diabetes.

This Special Issue aims to provide new insights into the physiological functions and regulatory mechanisms of any type of intracellular signal transduction system, ranging from microorganisms to higher organisms. Authors are invited to submit original research and review articles related to these subjects.





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