

Special Issue

Cell Regulation and Function

Message from the Guest Editor

Cells are the fundamental units of life, executing a wide range of biological functions through tightly regulated molecular and structural mechanisms. From signal transduction and gene expression to organelle dynamics and metabolic coordination, cellular regulation ensures both the maintenance of homeostasis and responsiveness to environmental cues. These regulatory processes are essential not only for normal development and tissue function but also for the progression of various diseases, including cancer, neurodegeneration, and immune disorders. Recent advances in imaging, omics technologies, and computational modeling have provided unprecedented insights into the spatial and temporal orchestration of cellular functions. Furthermore, the integration of systems biology approaches has uncovered new layers of complexity in cell behavior and regulation. This Special Issue, entitled “Cell Regulation and Function”, welcomes contributions from all areas of in vivo and in vitro research that explore novel physiological and pathological mechanisms of cellular regulation.

Guest Editor

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