Special Issue

The Symphony of Nature—the Precision of Life's Regulation

Message from the Guest Editors

Life operates as a finely tuned symphony, where proteins and nucleic acids interact in precise and dynamic ways to regulate essential biological functions. The structural intricacies of these biomolecules govern their roles, enabling cells to respond to environmental cues, coordinate biochemical pathways, and maintain homeostasis. Despite significant progress in understanding these mechanisms, many fundamental questions remain unanswered.

In this Special Issue, The Symphony of Nature—The Precision of Life's Regulation, we aim to explore the structural and mechanistic principles underlying life's regulatory processes. We welcome research and review articles focusing on diverse aspects of molecular regulation, including protein folding and misfolding, allosteric control, enzymatic catalysis, phase separation, and signaling networks. Special emphasis will be given to key molecular systems such as kinases, transporters, G protein-coupled receptors (GPCRs), DNA and RNA polymerases, ribozymes, and ATP synthase, each of which relies on precisely coordinated structural changes to function effectively.

Guest Editors

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About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).