Special Issue

Regulation of the Subcellular Compartmentalization of Signaling Pathways by Post-Translational Modifications

Message from the Guest Editor

Understanding the Regulation of Signaling Pathways through Post-Translational Modifications (PTMs): An Invitation to Explore New Frontiers. Signaling pathways represent intricate cellular communication networks that orchestrate critical biological processes which are essential for life. Post-translational modifications (PTMs) serve as pivotal regulatory mechanisms in signaling pathways, profoundly altering protein function, localization, and interactions. However, many questions remain unanswered regarding the interplay, crosstalk, and hierarchical organization of PTMs within signaling networks. **Call for Research Papers and Reviews:** We invite submissions addressing the role of PTMs in signaling pathway regulation, with particular emphasis on the following:

- Mechanistic studies elucidating novel PTMs and their downstream effects.
- High-throughput techniques for PTM identification and quantification.
- Computational approaches modeling PTM dynamics in cellular contexts.
- Insights into PTM-targeted therapeutic interventions.

Guest Editor

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Deadline for manuscript submissions

15 October 2025

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/235901

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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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