Special Issue

Cell and Molecular Mechanisms of Cytogenesis

Message from the Guest Editors

Cytogenesis, the process by which new cells are generated, is essential for neural tissue development, maintenance, and repair. In the central nervous system (CNS), cell genesis encompasses not only canonical mechanisms such as the differentiation of neural stem cells but also alternative routes. While neurogenesis, the generation of new neurons, has traditionally received the most attention, recent findings highlight the dynamic and functionally significant contributions of gliogenesis. These processes influence synaptic remodeling, neurotransmission, and behavior, demonstrating their impact far beyond structural support. This Special Issue of *Cells* invites original research and comprehensive reviews focused on the cellular and molecular mechanisms of CNS cell genesis in both physiological and pathological contexts. We welcome contributions exploring fundamental biological processes, innovative methodologies, and translational applications, including studies on signaling pathways, transcriptional regulators, cell–cell interactions, extracellular factors, and strategies to modulate cytogenic mechanisms for therapeutic purposes.

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.

Editors-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).