Special Issue

Cilia-Mediated Signaling Pathways

Message from the Guest Editors

Cilia are evolutionarily conserved organelles that extend from cells to provide critical sensory, signaling, and motility properties. Cilia are restricted compartments, and their functions are defined by the proteins that are targeted to and enriched in the ciliary membrane and cytosol. Numerous signaling pathways are mediated by cilia in response to diverse external signals, such as photons, peptides, chemicals, protons, and lipids. Cilia-mediated signaling is critical for proper cellular function, and in humans, defects in ciliary signaling are associated with many genetic diseases, collectively termed ciliopathies, that impact a wide range of organ systems. This Special Issue invites original research and review papers that focus on cilia-based signaling pathways. The scope is broad, and papers can cover ciliary signaling pathways in diverse model organisms (unicellular, invertebrate, or vertebrate) and systems (tissues or cell culture), irrespective of the functional output.

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Deadline for manuscript submissions

closed (31 March 2024)

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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).