Topical Collection

Hedgehog Signal Transduction in Physiology and Disease

Message from the Collection Editor

Since its discovery in 1998, the Hedgehog proteins and the signals they stimulate in different cell types and organisms have been the subject of intense investigation in relation to their roles in embryonic development and some disease conditions such as cancer and fibrosis. Mutations in any of the genes encoding the central components lead to congenital defects and/or cancer development. Regulation of key cellular processes by Hedgehog signaling includes proliferation, differentiation, apoptosis, autophagy, and cell-type specific functions, such as cytotoxic T cell killing and excitable cell action potential tuning. This Topic Collection is open to submissions of mechanistic aspects of canonical and non-canonical Hedgehog signaling in normal cells and tissues, as well as its dysregulation in disease conditions, development and/or characterization of small molecule modulators of the pathway, crosstalk with other signaling pathways, identification of key transcriptional outputs, and development of novel animal and cell-based models. We look forward to your valuable contributions.

Collection Editor

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Cells

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Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/14950

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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).