Special Issue

Mechanism of Cell Signaling during Eye Development and Diseases

Message from the Guest Editors

Cell signaling pathways are important in mediating essential processes in embryonic eye development and adult tissues. Their coordination and integration are critical for mediating processes ranging from cell proliferation and differentiation to cell fate determination and polarity. Cellular communication is compelled by these pathways and is driven by hormones, transcription factors, or other signaling molecules. Several major signaling pathways in eye development such as Hedgehog, Wnt, retinoic acid, FGF, TGF-β, and Notch operate during development, in a precise temporal and spatial patterning in the embryo and in adult tissues, generating diverse cellular responses in a cell-type-specific manner. Altered expressions of these pathways can lead to a large number of eye diseases. Therefore, delineating the mechanisms of cell signaling during eye development and disease can unveil their potential as targets for novel therapeutic strategies for the treatment of ocular diseases.

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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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