

Special Issue

Molecular Regulation in Ocular Physiology and Diseases

Message from the Guest Editor

The vertebrate eye is a highly specialized sensory organ resulting from structures derived from the neural tube called optic vesicles. During embryogenesis, ocular development is controlled by several intracellular and extracellular signaling pathways. These signaling pathways play essential roles in several developmental processes, including cell proliferation and cell fate determination. While the activity of these pathways is tightly controlled during development, dysregulation can result in multiple ocular malformations. Furthermore, faulty regulation of several signaling pathways has been associated with ocular pathologies in post-natal life. This Topic will highlight the role of several key signaling pathways involved in eye development and how their dysregulation contributes to ocular diseases.

Guest Editor

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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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