

Special Issue

The Modulation of Stem and Progenitor Cells in Retinal and Ocular Biology

Message from the Guest Editor

Retinal degeneration targets photoreceptors and/or the adjacent retinal pigment epithelium (RPE). This so-far untreatable devastating disease affects millions of people worldwide. Effective treatment for retinal degeneration has been widely investigated, but an effective treatment has not been found, especially for advanced stages of the disease. Therefore, stem-cell-based therapy is being pursued as a potential alternative treatment approach. In the center of investigations are neural stem and Müller cells, which behave as progenitor cells upon injury in some vertebrates. Nevertheless, the implementation of other concepts, exogenous as well as endogenous, are also accepted. In this Special Issue, we will focus on experimental stem-cell-based therapeutic approaches and summarize progress in the treatment of retinal degenerative disease. Thereby, the physiological and pathophysiological basics behind retinal degeneration will be covered, as will the hurdles towards a successful transition to the clinic.

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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