Special Issue

Molecular Mechanisms and Therapeutic Strategies of Macular Degeneration

Message from the Guest Editor

Age-related macular degeneration (AMD) is a leading cause of blindness. It affects the central vision of elderly people. There are two forms of AMD, neovascular and non-neovascular. In the neovascular or wet form, the development of new blood vessels from the choroid leaks into the subretinal space and causes hemorrhage. In non-neovascular or dry AMD, characterized by the presence of changes to the drusen and retinal pigment epithelium (RPE), dysfunction and degeneration of the RPE and photoreceptors occur as a result. Multiple factors contribute to the pathobiology of AMD, inflammation, lipid accumulation, oxidative stress, and mitochondrial dysfunction, further to RPE cell loss. Genetic variants and epigenetic factors have been found to be associated with AMD. Several approaches were used to identify AMD-like mouse models with photoreceptor degeneration, epigenetic modulation, sirtuin activators, etc. However, these treatments have limitations due to the crosstalk of multiple factors. In recent years, therapeutic advancements in approaching multiple factors, the usage of NAD modulators, and regenerative treatments have become more promising for the management of AMD.

Guest Editor

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Deadline for manuscript submissions

15 September 2026

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/258231

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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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