



## Cell and Organ Cultures for Studying Retinal Diseases

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### Message from the Guest Editors

Dear Colleagues,

For many retinal diseases, including age-related macular degeneration (AMD), glaucoma, and diabetic retinopathy (DR), the exact pathogenesis is still unclear. Moreover, the currently available therapeutic options are often unsatisfactory.

To date, research regarding these diseases has mainly relied on animal models. However, animal models do not fully mimic human diseases. In addition, there is growing pressure from society to reduce animal research. This creates a need for alternative and improved disease models.

This Special Issue includes original research and review articles about recent developments regarding in vitro models for retinal diseases.

The topics of this Special Issue include but are not limited to:

- The development of in vitro and ex vivo models (e.g., primary cell cultures, organotypic cultures, organoids, and whole eye cultures);
- The analysis and validation of causative molecular pathways and pathomechanisms;
- Treatment development and testing.



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*Guest Editors*

# Special Issue



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