Special Issue

Macular Diseases: From Diagnosis to Treatment

Message from the Guest Editor

Macular diseases, including age-related macular degeneration (AMD), diabetic macular edema (DME), and macular holes, are major contributors to central vision loss, especially in older adults. Diagnosis relies on advanced imaging techniques such as optical coherence tomography (OCT) and fluorescein angiography, which allow clinicians to detect retinal abnormalities with high precision. Although early detection methods have improved, many patients are still diagnosed in the later stages of disease progression. Current treatment strategies—primarily anti-VEGF injections, corticosteroids, and laser therapy -can slow vision loss but often require frequent administration and show variable effectiveness. Surgical options exist for specific cases like macular holes, but overall treatment outcomes remain suboptimal. Ongoing research is exploring innovative approaches such as gene therapy, stem cell treatments, and longacting drug delivery systems to address these limitations. Key challenges in the field include a deeper understanding of disease mechanisms, identifying predictive biomarkers, and enhancing access to timely diagnosis and care.

Guest Editor

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