



Recent Advances in Eye and Vision Research

Guest Editor

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Message from the Guest Editor

Dear Colleagues,

Human eye likes a forward camera of brain, over 70 % information we got is through eye. Normal vision acuity is the requirement of daily life for every individual person. The eye disease shares many common characteristics with systemic diseases. Eye diseases, including cataracts, diabetic retinopathy, glaucoma, Grave's diseases, Sjögren syndrome and inflammatory disease often seen in medical practices, may be secondary to systemic diseases. Importantly, certainly complications in eye can serve a diagnostic implication for systemic disease for example diabetes and hypotension and etc.

It is estimated that 38 million people are blind and 110 million are vision-impaired Worldwide, importantly, majority of vision loss is preventable and treatable. The treatment and prevention of eye diseases is based on the understanding of the pathogenesis of the diseases, which can lead to interfere the pathogenesis of the disease process or cure the diseases, therefore, basic and clinical research may play an essential role in preserving and rescuing vision acuity.

The common vision impairing eye diseases are complex eye diseases including but not limited to corneal diseases, glaucoma, cataract, uveitis, age related macular degeneration, diabetic retinopathy, intraocular tumors and advanced myopia, ocular trauma and etc. The pathogenesis of eye diseases may be linked to genetic (gene mutation, SNPs) /epigenetics abnormal, inflammatory and immune response, degeneration, angiogenesis, oxidative stress damage and deucedly wound healing, which may contribute to vision impairing. Even a remarkable progress of eye and vision research has been made in last decades, the pathogenesis of those complex eye diseases is still under-investigation, hence, in the upcoming special issue (SI), the updated studies in the vision impairing eye diseases and vision function will be addressed. original articles and review paper are welcome. We hope the special issue will provide the most advanced knowledge in understanding of the pathogenesis of eye diseases, vision function and its potential therapeutic intervention. The launch of the SI may help to establish a pavement for future SI such as inflammatory eye disease, degenerative eye disease, angiogenic eye



diseases, ocular tumor, fibrotic eye diseases, genetic eye diseases and eye diseases with epigenetic alteration, respectively.

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Submission Deadline: **28 February 2022**

Submission: <https://www.fbscience.com/Landmark>

Science Citation Index Expanded: **4.009** (2020)

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