

Special Issue

Genetics of Eye Disease

Message from the Guest Editor

Genetics of eye diseases has been a field of interest for many researchers in the last few decades. Technological advancement of molecular techniques allowed the spread of new approaches in search of genetic factors underlying pathological processes in ocular disorders. Recently, genome-wide association studies have emerged. These huge studies are more powerful in finding variations in genes of subtle effects to help defining heritability of polygenic eye diseases. Importance of knowledge regarding genetics of eye diseases is hard to overestimate, especially up against novel achievements of molecular manipulation techniques. Advances in sequence analysis and gene delivery methods, by viral and nonviral vectors have allowed the delivery of genetic payloads in preclinical models of retinal disorders, expanding the disease-modifying power of gene therapies. Despite the studies contributing to different eye diseases' genetics there is still little understood and much to be revealed. This special issue is focused on molecular side of the topic, nevertheless clinical implications are also welcome, if connected with biomolecular experiments.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2021)



International Journal of Molecular Sciences

an Open Access Journal
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Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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*International Journal of
Molecular Sciences*
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