

Special Issue

Underlying Molecular Mechanisms of Corneal Disease

Message from the Guest Editor

The cornea is a dome-like structure which is responsible for maintaining transparency in the visual pathway. Functionally, the cornea both provides a barrier for water and actively pumps water out. The unique organization of corneal cells and layers is required for proper functionality, and the compromise of structure or function leads to corneal opacity and potentially visual loss. As an avascular tissue, located at the very front of the eye, the cornea is chronically exposed to stress stimuli, including UV light, oxidative stress, hypoxia, and wounds. Such stress stimuli are associated with the development of various corneal pathologies. In addition, there is a genetic disposition to corneal dystrophies such as Fuchs disease. This special volume is dedicated to the molecular mechanisms that underlie the cellular responses to corneal stress, as well as their implications in corneal disease.

Guest Editor

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