Special Issue

Novel Approaches to Drug Delivery in Ophthalmic Disorders

Message from the Guest Editors

The eyes are one of the most important organs of the human body and they can be affected by various diseases. However, the eye's complex anatomy, including barriers such as the corneal epithelium, blood-retinal barrier, and tear dynamics, presents significant obstacles to effective drug delivery. For these reasons, conventional methods like topical drops and systemic administration often fail to achieve optimal therapeutic concentrations at the target sites. Therefore, there is a pressing need to develop more advanced delivery systems to overcome bioavailability challenges and sustain effective drug concentrations at the target cells or tissues for an appropriate duration.

This Special Issue aims to highlight recent research and advancements in ocular drug delivery systems, empathizing innovative strategies such as nanoparticle carriers, injectable hydrogels, sustained-release implants, and gene delivery systems.

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