

Special Issue

Nanotechnology in Ocular Drug Delivery

Message from the Guest Editors

The eye is a complex and dynamic organ that presents unique challenges for drug delivery. With formidable tissue barriers and a rich perfusion of blood vessels, the eye significantly restricts the entry of foreign substances; meanwhile, due to its vulnerable nature, the toxicity and irritation potential of conventionally used formulations and excipients are often heightened. In recent years, “nanomedicine” has been extensively investigated due to its proposed advantages of sustained and targeted drug delivery, reduced adverse effects, and enhanced bioavailability of hydrophobic and hydrophilic drugs, macromolecules, proteins, and peptides as well as biological vectors, including genes and antibodies. Thus, nanotechnology may facilitate the delivery of ocular therapeutics in clinically relevant concentrations to the anterior, and possibly even posterior, ocular tissues. This Special Issue highlights new research in nanomedicine for both the topical and intraocular administration of ocular therapeutics and its application in the treatment and management of ocular pathologies.

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