

Special Issue

Barrier Properties of the Human Eye and the Need for Novel Formulations, Drug Delivery Technologies and Medical Devices to Combat Age-Related Sight Loss

Message from the Guest Editors

The size of the global ophthalmic drugs market is expected to reach USD 43.1 billion by 2026. Finding efficient alternatives to conventional eye drops and intravitreal injections is desirable. The delivery of drugs and biologics to the ocular surface, anterior chamber, and posterior segment of the eye poses formidable challenges due to the unique physiological and pharmacological constraints of the human eye. With the global rise of the elderly population, conditions such as cataract, presbyopia, glaucoma, dry eye, age-related macular degeneration, keratitis, and diabetic retinopathy are becoming ever more prevalent. Low ocular bioavailability along with poor patient adherence are characteristic of the topical ocular hypotensive eye drops that are routinely used in glaucoma management.

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