

Special Issue

Innovative Technologies to Treat Diseases of the Back of the Eye

Message from the Guest Editors

Delivering drugs targeted for posterior segment diseases of the eye in a safe, patient-friendly, and controlled manner has long been the focus of drug delivery researchers. With an aim to develop smart materials capable of the controlled release of ophthalmic drugs relevant in the treatment and management of back of the eye diseases, such research hopes to meet the challenges associated with the global rise in such diseases. Much of the focus has worked towards the development of both nanomaterial delivery carriers and extended-release platforms, such as nano- and micro-devices, implants and contact lenses, as effective means to bypass the ocular barriers and deliver drug efficiently to the posterior segment of the eye. All these innovative technologies are emerging as efficient therapeutic tools in the personalized treatment of back of the eye diseases. The development of animal models of posterior segment diseases is also a critical issue as most of these pathologies are chronic and multifactorial.

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