

Special Issue

Recent Advances in Ocular Drug Delivery

Message from the Guest Editors

Eye diseases are either treated with eye drops or, more rarely, systemically with intravitreal injections. However, the treatment efficacy of eye drops is low because only 1–5% of the administered drug remains in the eye long enough to be effective. For retinal diseases, this percentage drops down to less than 1% due to low ocular penetration. Therefore, repeated intravitreal injections are needed to treat retinal diseases, which can result in side effects and systemic spreading. Hence, more robust drug delivery systems need to be developed in order to avoid unwanted side effects and achieve better therapeutic outcomes. Nano- and microparticles offer great opportunities to overcome these challenges. This Special Issue aims to capture the current state-of-the-art advances in ocular drug delivery. Suggested topics include the following: novel micro- and nanoparticles; improvements in implantable devices and slow release systems; new approaches in targeted ocular drug delivery; and challenges and obstacles of ocular drug delivery (systems).

Guest Editors

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