

Special Issue

Ocular Drug Delivery Systems and Formulations

Message from the Guest Editor

Efficient drug delivery to ocular tissues remains a challenge due to the eye's unique anatomical and physiological barriers. These barriers limit drug absorption, bioavailability, and therapeutic efficacy. In response, recent advances in the development of nanoscale drug delivery systems and novel biomaterials have opened new possibilities for targeted and sustained ocular therapies.

Innovative formulations—such as nanoparticles, liposomes, dendrimers, hydrogels, in situ gelling systems, and biodegradable implants, among others—to overcome conventional delivery limitations. These strategies enhance the penetration of therapeutic agents through ocular tissues, improving the treatment of different ocular structures, minimizing systemic absorption, and reducing potential side effects.

This Special Issue provides a comprehensive overview of recent advances in ocular drug delivery, focusing on cutting-edge formulations and delivery systems that are designed to overcome various ocular barriers.

This Special Issue aims to inform and inspire future research toward more effective and patient-friendly ocular therapeutics.

Guest Editor

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