Special Issue

Biomaterials for Controlled Drug Delivery: Innovations and Applications

Message from the Guest Editors

Controlled drug delivery systems revolutionize medicine by enhancing precision and minimizing side effects. Biomaterials form the foundation of these systems, enabling drug encapsulation, stabilization, and targeted release. Advances in polymers, hydrogels, nanomaterials, and biocomposites address challenges like drug stability, controlled release, and site-specific targeting. Stimuli-responsive biomaterials, triggered by pH, temperature, or enzymes, further boost therapeutic adaptability. This Special Issue explores cutting-edge research and applications of biomaterials in controlled drug delivery, highlighting their transformative potential. The aim of this Special Issue, **"Biomaterials for Controlled Drug Delivery: Innovations and Applications,"** is to showcase advancements in polymer-based systems, ceramics, and composites for drug delivery. Topics include polymer hydrogels, nanogels, electrospun fibers, polymeric micelles, bioactive glass nanoparticles, mesoporous silica nanoparticles, calcium phosphate systems, and hybrid composites. Emphasis is placed on controlled release, targeted delivery, stimuli-responsive systems, and tissue regeneration.

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