

Special Issue

Biodegradable Polymer Platforms for Long-Acting Drug Delivery

Message from the Guest Editors

This Special Issue will highlight the latest advancements and emerging trends in biodegradable polymer platforms for long-acting drug delivery. Biodegradable polymer platforms offer a user-independent alternative to frequent dosing, enabling the sustained and controlled release of therapeutic agents over an extended duration, and thereby improving medication adherence and clinical outcomes. This Special Issue will explore the design, synthesis, and characterization of novel natural and synthetic biodegradable polymers and their copolymers, as well as innovative drug incorporation techniques tailored to meet patients' specific therapeutic needs.

Manuscripts may address cutting-edge formulation strategies, mechanistic studies on drug release (including diffusion, erosion, and hybrid approaches), and the influence of polymer composition and degradation kinetics on therapeutic outcomes. Submissions highlighting new manufacturing technologies for the scalable production of injectable depots, in situ forming gels, microparticles, nanoparticles, implants, and other minimally invasive delivery systems are encouraged.

Guest Editors

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