Special Issue

Application of Cellulose in Pharmaceutics

Message from the Guest Editors

Cellulose and its derivatives are versatile and sustainable biomaterials with broad applications in pharmaceutics. From traditional uses of microcrystalline cellulose in tablet formulations to Innovative incorporation of cellulose nanocrystals and nanofibers in advanced drug carriers, the structural diversity and functionality of cellulose-based materials offer potential for innovative pharmaceutical solutions. Moreover, cellulose derivatives enable precise modulation of solubility and drug release profiles, contributing to enhanced bioavailability, stability, and therapeutic efficacy. This Special Issue aims to highlight recent advancements and emerging trends in the pharmaceutical applications of cellulose, focusing on formulation science, drug release modulation, nanotechnology-based systems, and regulatory perspectives. We welcome original research articles and reviews that explore the role of cellulose in enhancing the performance, safety, and sustainability of pharmaceutical products.

Guest Editors

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