

Special Issue

Dispersed System for Controlled Drug Release and Delivery—the Path to Effective Therapeutic Solutions

Message from the Guest Editors

This Special Issue is dedicated to innovative strategies for precise, targeted and controlled drug release and delivery, focusing on the progress in drug delivery associated with the use of nano- and microscale dispersed systems. In this area, dispersed systems play a pivotal role, mainly due to their ability to finely modulate the release of active substances. This is attributed to their capacity to precisely control the release kinetics, making dispersed systems such as micro-/nanoemulsions, multiple emulsions, liposomes and nanosuspensions essential tools for enhancing the effectiveness of drug delivery. Moreover, dispersed system-based advanced formulations enable the development of pharmaceutical forms that improve the bioavailability of active substances and minimize potential side effects. Consequently, dispersed systems in controlled-release formulations emerge as central contributors to progress in drug delivery, positively impacting therapeutic efficacy and patient comfort.

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