

Special Issue

Polymer-Based Matrices for Drug Delivery: In Vitro, In Vivo and In Silico Approaches

Message from the Guest Editors

In recent years, a great deal of effort has been focused on drug delivery systems within the biomedical field. In this scenario, polymer-based systems (for example, microparticles, nanoparticles or microneedles) are recognized as very popular carriers and are specifically designed to deliver the encapsulated active molecules to a specific targeting site, achieving improved therapeutic effects and reduced adverse effects. The reason behind this great diffusion is several attractive features, such as the use of non-laborious techniques, low production costs, simplicity in industrial scale-up, and possibilities of different ways of administration (trans-epidermal, oral, ocular, parental, inhalation). The aim of this Special Issue is to underline and collect research progresses and outputs in nano- and microencapsulation techniques related to the drug delivery field, including both in vivo and in vitro studies. Articles that describe in silico models to predict physicochemical properties and release profiles are also welcome.

Guest Editors

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