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Modulation of Physico-chemical and Therapeutic Features of Drugs by Biocompatible Materials

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Message from the Guest Editor

As you are aware, the use of biocompatible materials noticeably modulates the physico-chemical, biopharmaceutical, and pharmacological properties of many active compounds. In particular, the encapsulation/complexation of drugs using biodegradable delivery systems, made up of phospholipids, polymers, polysaccharides, proteins, etc., represents a suitable approach that is able to increase their therapeutic efficacy and decrease their side effects. The lack of toxicity of the aforementioned formulations favours their application through various administration routes, obtaining a significant increase of the half-life of the delivered compound(s).

Moreover, the opportunity of promoting the localization of drugs in specific tissues is another feature of biomaterial-based drug carriers obtained by passive and active targeting approaches as a function of their composition and surface characteristics.

The aim of this Special Issue is to describe the advancements concerning the development of innovative biocompatible formulations for pharmaceutical applications.





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Message from the Editor-in-Chief

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