

Special Issue

Recent Insights Concerning the Use of Supramolecular Systems for Biomedical Applications

Message from the Guest Editors

In recent years, supramolecular systems have emerged as a promising study area with potential applications in various biomedical fields. Supramolecular systems have attracted significant attention in biomedical research due to their unique properties and versatile functionalities. These systems, based on non-covalent interactions, offer a wide range of possibilities for applications, such as drug delivery, tissue engineering, wound healing, cancer therapy, and bioimaging. Many researchers have explored various types of supramolecular systems, including hydrogels, nanoplateforms, and polymers, to develop innovative solutions for biomedical challenges. One of the primary areas where supramolecular systems have found great promise is drug delivery. Supramolecular systems solve these challenges by encapsulating drugs within their structures, protecting them from degradation and increasing their solubility. This Special issue is dedicated to investigating nanotransporters based on supramolecular systems, containing natural or synthetic bioactive molecules, in which the drug is either absorbed, adsorbed or encapsulated in the carrier, emphasizing their improved biological activity.

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