

Special Issue

Editorial Board Members' Collection Series: Chitosan in Biomedicine: Current Status, Future Perspectives and Challenges

Message from the Guest Editors

In recent decades, chitosan biomaterial has gained extraordinary relevance in the biomedical field due to its unique biological properties. It is nontoxic, biodegradable, biocompatible, mucoadhesive and promotes mucosal drug absorption. In addition, it has antibacterial, antimicrobial, anti-inflammatory, antitumor, immunostimulatory and wound healing properties. For all these reasons, chitosan and its derivatives are having an enormous impact on the fields of drug delivery, gene therapy, vaccination, tissue engineering, regenerative medicine and wound dressing, among others. This Special Issue focuses on the latest research advances on systems based on chitosan and its derivatives in biomedicine, including (but not limited to): (a) delivery of proteins, antibiotics, antigens and nucleic acids; (b) diagnosis and treatment of cancer (theranostics); and (c) applications in tissue engineering. The aim is to provide an updated status and perspectives on future research in the aforementioned topics and to emphasize the challenges for their translation to the clinic. Original research articles and review manuscripts on the aforementioned topics are welcome.

Guest Editors

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