

Special Issue

Sustainable Materials and Technologies for Drug Delivery and Tissue Engineering

Message from the Guest Editors

The aim of this Special Issue is to gather latest studies which creatively combine classic concepts of materials processing with those of waste management, leading to sustainable tissue engineering. The majority of current technologies for drug delivery systems and tissue regeneration involves synthetic materials, with no biological activity, which already proved to be “biologically safe” but, unfortunately, are highly unlikely to succeed in the long term. Prospective alternatives should be based on active, biomimetic templates which can biologically and mechanically participate in the stimulation of tissue regeneration. Sustainable materials for drug delivery and tissue regeneration can be easily obtained by the conversion of biogenic waste with chemical value into valuable materials. Their low cost, high availability, and non-toxic nature recommend them for this kind of application, reducing at the same time the pollution generated by the accumulation of such industrial byproducts.

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