

Special Issue

Emerging Strategies to Improve the Design and Manufacturing of Biocompatible Therapeutic Materials

Message from the Guest Editors

Currently, the field of medicine is drastically increasing its results, mainly due to the progress in emerging areas such as nanomedicine, regenerative medicine, and personalized medicine. For example, the development of novel drug delivery systems in the form of nanoparticles is improving the LADME (liberation, absorption, distribution, metabolism and excretion) properties of the derived formulations, with a consequent enhancement of the treatment efficacy, a reduction in the secondary effects, and a better compliance with the dosage guidelines. On the other hand, the utilization of biocompatible scaffolds is translating into the possibility of regenerating biological tissues. Additionally, personalized medicine is benefiting from the advantages offered by additive manufacturing. However, all these areas have in common the need to develop novel materials or composites that fulfill the requirements of each application. Therefore, this Special Issue aims to identify novel materials/composites that have been developed with specific characteristics to accomplish the biomedical application for which they were designed.

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