Special Issue

Advances in Biocomposite Materials for Regenerative Medicine and Biomedical Applications

Message from the Guest Editor

Biocomposite materials, which combine natural and synthetic components, offer unique advantages such as biocompatibility, tunable mechanical properties, and bioactive functionalities, making them ideal for tissue regeneration. This Special Issue aims to highlight recent advances in biocomposite design, fabrication, and applications in biomedical and regenerative fields. Topics include scaffold-based systems for tissue engineering, injectable biocomposites for minimally invasive treatments, bioactive and stimuli-responsive materials, and composite hydrogels for soft tissue regeneration. We also welcome studies on novel fabrication techniques (e.g., 3D printing, bioassembly) and in vitro/in vivo evaluations. By bringing together cutting-edge research, this Special Issue seeks to provide an overview of the latest developments in biocomposite materials and their clinical translation. Contributions from multidisciplinary fields are encouraged to foster collaboration and innovation in the development of next-generation biomaterials for healthcare.

Guest Editor

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