

Special Issue

Biomaterials for Disease Diagnosis and Therapy: Emerging Molecular Innovations and Applications

Message from the Guest Editor

Recently, the rapid evolution of biomaterials has transformed precision medicine by enabling early diagnosis and the development of personalized therapies. Thanks to recent cutting-edge advancements in biomaterials for disease diagnosis and treatment, both natural and synthetic biomaterials have garnered significant attention for their applications in medical sciences, aiming to improve patient outcomes and alleviate healthcare burdens. Therefore, this Special Issue highlights advancements in biomaterials for disease diagnosis and therapy, with a particular emphasis on molecular innovations that enhance accuracy, efficiency, and clinical applicability. We invite original research and reviews on innovative biomaterial designs, including hydrogels, scaffolds, nanoparticles, and bioengineered molecules, for diagnostic applications such as biosensors, organ-on-a-chip, and imaging agents, as well as therapeutic applications, including drug delivery systems, tissue engineering (3D and 4D printing), and immunotherapy. The focus will be on biocompatibility, molecular mechanisms, and translational potential to address unmet clinical needs in conditions.

Guest Editor

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Message from the Editor-in-Chief

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