

Special Issue

Applications of Biomaterials in Medicine and Healthcare

Message from the Guest Editors

Biomaterials have revolutionized medicine and healthcare, being the basis for advancements in diagnostics, treatment, and patient care. These materials, engineered to interact with biological systems, play a critical role in repairing, replacing, and enhancing biological functions. From orthopedic implants and cardiovascular stents to drug delivery systems and tissue engineering scaffolds, biomaterials fill the gap between biology and technology, enabling innovative solutions for complex medical challenges. Their versatility arises from a wide range of materials, including metals, ceramics, polymers, and composites, tailored to meet specific biological and mechanical requirements. Emerging fields, such as regenerative medicine and nanomedicine, are further expanding the horizons of biomaterials, promising personalized therapies and improved patient outcomes. This Special Issue explores the multifaceted applications of biomaterials, highlighting their impact on modern healthcare and their potential to shape the future of medicine.

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Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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