

Special Issue

Nanomaterials and Nanotechnology in Biomedical Research

Message from the Guest Editor

This Special Issue aims to highlight these innovations in drug delivery, biosensing, regenerative medicine, and theranostics using nanomaterials such as nanoparticles, quantum dots, and nanocomposites while also discussing novel fabrication techniques, biocompatibility challenges, and the clinical translation of nanomedicine. With the rise of artificial intelligence, nanomedicine has integrated AI-driven algorithms in nanoparticle design, and machine learning aids in drug delivery, just to name a few. This Special Issue examines this role of artificial intelligence and nanotechnology in precision medicine. By showcasing innovative research, this Special Issue aims to foster collaboration and accelerate the integration of nanotechnology into modern biomedical applications with the goal of advancing patient care and personalized medicine.

Guest Editor

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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