

Special Issue

Recent Advances in Nanotechnology for Biomedical Applications

Message from the Guest Editor

Recent advances in nanotechnology have significantly improved biomedical applications, offering innovative solutions for disease diagnosis and treatment. Nanomaterials can deliver drugs directly to targeted sites, increasing treatment efficiency while reducing side effects. This targeted drug delivery is particularly useful in cancer therapy, where precision is crucial. In addition, nanosensors are being developed to detect diseases at very early stages by identifying tiny amounts of biological markers in the body. Nanotechnology also plays an important role in regenerative medicine, helping scientists design better materials for tissue engineering and cell repair. Furthermore, antimicrobial nanocoatings are used on medical devices and implants to prevent infections and improve patient safety. Overall, recent developments in nanotechnology are transforming modern medicine by enabling more accurate diagnostics, personalized treatments, and improved therapeutic outcomes for patients around the world.

Guest Editor

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