

Special Issue

Emerging Applications of Nanobiotechnology in Medicine and Health

Message from the Guest Editor

Nanobiotechnology is revolutionizing medicine by advancing diagnostics, treatment, and prevention. This Special Issue highlights key topics, including:

Nanodiagnostics: Nanoparticles and biosensors enable sensitive disease detection and real-time monitoring.

Targeted Drug Delivery: Nanoparticles improve efficacy by delivering drugs directly to disease sites, minimizing side effects.

Gene Therapy: Nanotechnology enables precise delivery of genetic material, offering new treatments for genetic disorders.

Antimicrobial Nanomaterials: Nanoparticles combat antibiotic-resistant infections and support wound healing and medical device safety.

Regenerative Medicine: Nanomaterials aid tissue engineering and organ repair by promoting cell growth.

Personalized Medicine: Nanotechnology tailors treatments to individual genetic profiles for enhanced outcomes.

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