Special Issue

State of the Art of Nano-Based Wound Dressings

Message from the Guest Editor

Nano-based wound dressings represent a transformative advancement in modern wound care, offering innovative solutions to address both acute and chronic wound-healing challenges. By leveraging nanoscale materials such as nanoparticles, nanofibers, and nanocomposites, these dressings enhance therapeutic outcomes through targeted controlled drug release, excellent biocompatibility, antimicrobial activity, and accelerated tissue regeneration. Their unique properties, including high surface-area-to-volume ratios, tunable biodegradability, and targeted bioactive delivery, enable the precise modulation of the wound microenvironment while minimizing systemic side effects. This Special Issue will highlight cutting-edge developments in the design, characterization, and clinical translation of nano-engineered wound dressings, with a focus on interdisciplinary innovations spanning materials science, nanotechnology, bioengineering, and regenerative medicine.

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