

## Special Issue

# Advances in Nanomaterials for Wound Healing

### Message from the Guest Editors

Wound healing is an intricate process that involves interactions between various types of cells and molecular mechanisms. The progress of nanotechnology in the field of biomedical science has brought about vast prospects in the field of wound healing applications. They mimic the extracellular matrix (ECM) and deliver bioactive agents precisely while providing mechanical support and moisture retention. Stimuli-responsive nanomaterials enable controlled drug release based on wound conditions like pH or temperature. Smart nanomaterials can also monitor wound parameters in real time, enabling "intelligent" dressings. Although existing studies have made some progress, further research is warranted to gain a comprehensive understanding of the intricate molecular and cellular mechanisms by which nanomaterials influence wound healing. The cytotoxicity, long-term effects, and safety of nanomaterials require further evaluation. In future research and clinical applications, nanomaterials present enormous potential to accelerate healing, reduce complications, and improve patient outcomes through precision medicine methods, thereby changing the face of wound management.

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