



Advances in Wound Dressings and Materials

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Message from the Guest Editor

Wound healing is an incredibly complex physiological process, with numerous interdependent factors influencing critical events. Although most superficial wounds heal normally, there are instances when they fail to heal properly, leading to infection and/or chronic wounds. Wound management is a major global challenge posing a significant burden to patients and healthcare systems. There have been significant developments in the management of wounds over the last five decades owing to improved insight into the wound healing process and progress in technologies. These include smart systems, such as bioactive dressings, to promote wound healing and advanced textiles for compression or with antimicrobial functionality involving materials with intrinsic bactericidal activity, modified surfaces or incorporating antimicrobial agents. Therapeutic agents, bioactive molecules and cells have been incorporated into controlled-release carriers, including polymeric micro- and nanospheres, lipid nanoparticles, nanofibrous structures, hydrogels and scaffolds.





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Message from the Editor-in-Chief

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