

Special Issue

Microneedle-Mediated Transdermal Delivery of Bio-Macromolecular Drugs

Message from the Guest Editors

We are pleased to invite you to contribute to our Special Issue titled “Microneedle-Mediated Transdermal Delivery of Bio-Macromolecular Drugs”. The transdermal administration of biological drugs at therapeutically effective doses remains challenging. Polymeric microneedles have garnered significant research attention as a minimally invasive platform for facilitating the transdermal delivery of therapeutic biologics—including protein and nucleic acid drugs and vaccines—via stratum corneum microporation. Microneedles eliminate the need for professional operation and cold-chain transport by enabling patient self-administration and maintaining stability in dry formulations. Moreover, the skin harbors abundant immune cells, making it an ideal target site for immunomodulation. This Special Issue will focus on recent advancements in utilizing diverse microneedle systems for the transdermal delivery of biologics, targeting both localized and systemic diseases. It will showcase cutting-edge microneedle-based drug delivery and formulation approaches to disease intervention and prevention, as well as diagnostic applications.

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