Special Issue

Development and Testing of Nanotechnology-Based Delivery Systems for Topical Drug Delivery to Wounds, Skin or Mucosa

Message from the Guest Editors

Efficient topical administration of drugs would improve the specificity of many dermatological conditions. However, low penetration, low stability and rapid clearance still hamper the development of efficient topical treatments. Nanotechnology-based delivery systems have been shown to improve drug bioavailability and even enable spatiotemporal control of drug release. Nanoparticles, gels or membranes based on lipids, polysaccharides, proteins or polymers are promising approaches for topical drug delivery. They can improve skin permeability, dissolve in a controlled manner and possess environmental sensitivity and specific targeting properties.

This Special Issue welcomes articles dealing with drug delivery to wounds, skin, or mucosa with special attention paid to the following topics:

- Novel synthesis of delivery systems, drug formulations
- Drug release, delivery studies
- Studies on the mechanism of drug transport across skin barrier
- In vitro, ex vivo, or in vivo tests of efficacy
- Targeting of specific cell populations or intracellular targeting

Guest Editors

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Pharmaceutics

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Impact Factor 5.5
CiteScore 10.0
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