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Polymeric Carrier Systems Enabling Transdermal Drug Delivery

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Message from the Guest Editors

In recent years, transdermal drug delivery (TDD) has been highly sought after to enable both localized and systemic therapy. Bypassing the gastro-intestinal and hepatic first-pass metabolism, TDD promises significant drug bioavailability with reduced risks of immune rejection. Moreover, TDD is non/minimally invasive, ensuring great patient compliance alongside the possibility of self-application. To this end, polymeric carrier systems (e.g., nanocarriers and microneedles) are widely explored to facilitate safe, efficacious, and well-controlled TDD. Facile preparation, flexibility in cargo moieties, tuneable release profile, and great biocompatibility are some advantages of polymer-based TDD carriers.

In this Special Issue, current efforts to develop and employ such polymeric TDD carriers are highlighted. The scope of this Special Issue will include techniques utilized to fabricate polymeric TDD carriers, methods to characterize and optimize drug loading and release profile (i.e., sustained-release, stimuli-responsiveness) as well as disease-specific adaptations for localized skin pathology and systemic diseases (e.g., diabetes mellitus).

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I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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