Special Issue

Novel Technologies for Buccal and Transdermal Drug Delivery

Message from the Guest Editors

The discovery of new drug candidates with poor water solubility as well as a strong first-pass effect present ongoing challenges regarding their translation into potential medical therapies. In light of this, researchers are focusing their efforts on finding alternative technologies and delivery systems to improve the solubilization and bioavailability of these drugs. In particular, interest has been focused on the use of electrohydrodynamic processing for the generation of drug delivery platforms to enhance drug permeability and solubility. This technique can be used to generate the solid dispersions of an API within a polymer matrix, generating solid pharmaceutical formulations that can adhere to the mucosa membrane. Moreover, the resultant fibrous materials have a high specific area, tunable pore size and controlled mechanical properties, making them attractive in drug delivery applications. This Special Issue is focused on highlighting the current trends and perspectives of buccal and transdermal delivery systems prepared by emerging technologies, such as electrohydrodynamic processing, among others. We look forward to receiving your contributions.

Guest Editors

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