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Using In Vitro and Ex Vivo Models to Evaluate Strategies for Drug Delivery Improvement

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Message from the Guest Editors

This special issue covers topics related to drug delivery improvement that have been evaluated using applicable *in vitro* and/or *ex vivo* models. These models may include epithelial cell lines grown as monolayers on insert membranes and/or excised epithelial tissues mounted in Ussing type diffusion chambers for measurement of drug permeation. Contributions on models representing any route of drug administration will be accepted including gastrointestinal tract epithelium (oral administration), nasal respiratory and olfactory epithelium (intranasal and intra-respiratory administration), mouth, cheek, and tongue epithelium (buccal and/or sublingual administration) and the skin (transdermal administration) amongst others. Drug delivery improvements achieved by means of formulation approaches such as carrier systems (e.g., nanoparticulate systems and cyclodextrin inclusion complexes), smart delivery systems (thermosensitive gel systems), drug absorption enhancers (e.g., chitosan, surfactants etc.) or by enhancement of solubility (e.g., amorphous solid dispersions) will be considered for inclusion in the special issue.



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Special Issue



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