

Special Issue

Innovative Oral and Topical Drug Delivery Systems for Enhanced Bioavailability

Message from the Guest Editors

This Special Issue focuses on the development and characterization of oral and topical pharmaceutical formulations designed to enhance the bioavailability of active pharmaceutical ingredients (APIs), particularly those with limited solubility or permeability. The scope encompasses both conventional and advanced drug delivery strategies, designed to enhance absorption, prolong retention at the site of action, and overcome physiological barriers. Emphasis is placed on formulation approaches, including lipid-based systems, polymeric hydrogels, solid dispersions, mucoadhesive platforms, and micro/nanoparticulate carriers. Additionally, contributions addressing the physicochemical optimization, in vitro–in vivo correlation, and innovative techniques for formulation design (e.g., 3D printing or hot-melt extrusion) are welcome. The issue aims to highlight the latest research efforts that contribute to improving the therapeutic performance of oral and topical drug products, with relevance in both pharmaceutical development and clinical practice.

Guest Editors

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Message from the Editor-in-Chief

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