



Transdermal Delivery: Challenges and Opportunities

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Deadline for manuscript
submissions:

31 August 2024

Message from the Guest Editor

Significant efforts have been devoted to developing strategies to overcome the impermeability of intact human skin, which provides the main barrier for drug penetration. These strategies involve chemical (formulation-based) and physical penetration enhancement techniques. Chemical penetration enhancement methods involve the manipulation of the drug or vehicle in order to enhance the drug diffusion through the skin; this also includes the use of different nanocarriers (e.g., vesicles, nanoparticles, etc.). Among physical methods, iontophoresis, electroporation, and ultrasound are the most studied enhancement methods.

The primary focus of this Special Issue is to address the opportunities and challenges associated with transdermal drug delivery and to demonstrate how various percutaneous penetration enhancement strategies can overcome these challenges, thereby improving the therapeutic efficacy of TDDS.





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Message from the Editor-in-Chief

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