

Special Issue

Novel Approaches in Dermal Drug Delivery

Message from the Guest Editors

The easy accessibility of human skin provides unique potential for topical applications. A variety of resident and migratory cell populations relevant for barrier and immune functions and tissue regeneration reside underneath a unique barrier architecture. In recent years, several novel approaches have been developed to overcome the skin barrier that could help to tackle existing challenges in the field, such as the effective delivery of biomacromolecules and targeting of specific tissue compartments or cell populations. Technical advances in in vitro and ex vivo skin models and the unique possibility for in vivo clinical assessment using non-invasive imaging and minimal-invasive assessment techniques provide ideal conditions for translational research. This Issue aims to provide an up-to-date perspective on recent advancements in the field of topical drug delivery. This also includes a critical review of proposed and currently available approaches, including their translational potential, from the perspective of a basic scientist and a dermatologist.

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