Special Issue

Innovative Approaches in Skin Formulation Development and Characterization: Scientific Foundations for Regulatory Transformation

Message from the Guest Editors

In the era of generative artificial intelligence (AI), which was welcomed by certain drug regulatory agencies, it is reasonable to expect accelerated implementation of all research innovations. Ranging from innovative pharmaceutical formulations (often being nanostructured) to sophisticated physico-chemical, thermal, imaging ,or analytical characterization techniques, even more conservative regulators could be convinced to implement certain changes in the existing guidelines and processes. Currently, a formulation's nano/microstructure can be fully characterized using a smart set of complementary techniques. However, availability and equivalence testing often rely on human volunteers and/or excised human skin. On one hand, studies with clinical endpoints are faced with well-known assessment challenges. On the other hand, excised human skin introduces a number of variabilities (loss of physiological functions; donor-, storage-, or handling-related artifacts; etc.). This Special Issue aims to encourage researchers to publish their findings in the field of topical and transdermal drug delivery systems. We look forward to receiving your contributions.

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