

Special Issue

Lipid Metabolism and Gene Expression in Skin and Skin Diseases

Message from the Guest Editors

Research in recent decades has revealed that lipids do not only cover the skin, contributing to the lipid barrier and influencing the microbiome, but may also accumulate within the dermis, which results in a microenvironment that may alter gene expression and, with that, the function of epidermal and dermal cells. Although keratinocytes with sebaceous glands are considered to be the main source of skin lipids, the signals that regulate their lipid production and change their lipid profile and the relevance that those may have in disease pathogenesis are yet to be characterized in full detail. Importantly, despite the promising results from modifying various lipid-induced signaling pathways to treat skin diseases, such as the ones mediated via lipid activated hormone receptors such as PPARs or RARs, our knowledge on the therapeutic potential in the pathways that lipids may induce in both stromal and immune cells is also limited. In this dedicated issue, we therefore welcome both basic and translational research as well as review articles that aim to introduce the possible involvement of lipids in maintaining skin homeostasis and in the pathogenesis of various skin diseases.

Guest Editors

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