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Dermal-Epidermal Cross-Talk and Bioactive Mediators in Physiological and Pathological Skin Conditions

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Message from the Guest Editors

Keratinocytes and melanocytes in the epidermis and fibroblasts in the dermal compartment, as well as immune cells, sebocytes and endothelial cells, are strictly interconnected. This complex cooperation among the different cell populations guarantees proper skin homeostasis in physiological processes such as barrier function, pigmentation, and regeneration. Parallel to cell-cell interactions, extracellular matrix (ECM) proteins such as fibronectin and collagens exert an active role in several cutaneous physiological processes. The cross-talk among the skin components is under the tight control of intracellular signaling pathways triggered by a plethora of growth factors, cytokines, hormones, and bioactive lipids acting both in an autocrine and paracrine manner. The deregulation of these interactions contributes to the development of several pathological conditions such as inflammatory skin diseases, pigmentary disorders and melanoma and non-melanoma skin cancer. . This Special Issue aims to collect advances in the field of dermal-epidermal cross-talk regulating cutaneous homeostasis.



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