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Skin Barrier Function

Guest Editors:

Prof. Dr. Se kyoo Jeong

Department of Bio-Cosmetic
Science, Seowon University,
Cheongju, Korea

Dr. Hyun Jung Kim

Seoul Medical Center, Seoul,
Korea

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Message from the Guest Editors

Since the ground-breaking emergence of a “brick and mortar” concept for stratum corneum in the mid-1970’s, research about the skin barrier functions has expanded from basic investigative dermatology to cosmetics, transdermal drug delivery, and even to digital healthcare areas. Recently, increased prevalence of skin diseases with barrier dysfunctions and environmental stress have made “skin barrier” one of the most widely used terms in cosmetics. However, developing new cosmetic ingredients, formulations, or devices addressing skin barrier function requires not only understanding the mechanisms of skin barrier homeostasis but having knowledge about diverse areas, including bioengineering technology for skin barrier measurement; instrumental analysis technology for assessing the molecular arrangement of stratum corneum intercellular lipids; and organic chemistry and biotechnology for producing key ingredients, such as ceramides.

This Special Issue is aimed at providing the necessary information required to apply the “skin barrier” concept for cosmetic products, encompassing basic research to practical development and clinical evaluation.



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Special Issue

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Editor-in-Chief

Prof. Dr. Enzo Berardesca

Department of Dermatology and
Cutaneous Surgery, University of
Miami, Miami, FL 33136, USA

Message from the Editor-in-Chief

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Contact Us

Cosmetics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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