

# 17<sup>TH</sup> EUROPEAN DERMATOLOGY CONGRESS

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### **Sensitive skin syndromes and transient receptors potential (TRP) channels in sensitive skin diseases**

Sensitive skin syndrome is a common and important clinical condition not only to the dermatologists but also to the skin care products and cosmetic manufacturing industries. Conditions like psoriasis, rosacea, contact and atopic dermatitis are associated with it. The perception of itch is translated to our brain by neuronal depolarization signals initiated by aberrant transient receptor potential (TRP) channels mainly TRPV1, TRPV3, TRPV4 and TRPA1 through a complex inflammatory cascades and mediators. The discovery of these mediators and pathways not only broaden our understanding of the skin–nervous system interaction during the body innate response to adversity but also may provide therapeutic solution to a number of diseases which share similar pathogenesis and etiology. In this lecture, we will discuss the biology of various TRP channels and their pathophysiological roles in skin diseases like sensitive skin syndromes, rosacea, atopic dermatitis, contact dermatitis and abnormal hair diseases. Some local data on studies of sensitive skin will be presented. In addition, some potential therapeutic agents targeted the TRP channels in skin diseases will be addressed.

#### **Biography**

Chan Kam Tim Michael is a practicing private Dermatologist in Hong Kong. He has received his Fellowship from Hong Kong Academy of Medicine (FHKAM) as a Registered Dermatologist since 1998. He has received his Post-doctoral training in University of California, Los Angeles (UCLA) in 1997. He is presently the Vice President of the Association of Integrative Aesthetic Medicine (AIAM) in Hong Kong. He serves as an Editorial Board Member of the following International Journal: Journal of Anatomy and Physiological Studies, The Cognitive Neuroscience Journal, The Research Journal of the Nervous System, since 2017. He has been the Editor of Hong Kong Journal of Dermatology and Venereology from 2002 to 2007.

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