

23rd World Dermatology Congress

June 20-21, 2022 | Paris, France

Ahmad Khodr, J Dermatol Dis 2022, Volume 09

Advances in microbiome-derived solutions and methodologies are founding a new era in dermocosmetics

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The microbiome, as a community of microorganisms and their structural elements, genomes, metabolites/signal molecules, has been shown to play an important role in human health, with significant beneficial applications for gut health. Skin microbiome has emerged as a new field with high potential to develop disruptive solutions to manage skin health and disease. Despite an incomplete toolbox for skin microbiome analyses, much progress has been made towards functional dissection of microbiomes and host-microbiome interactions. A standardized and robust investigation of the skin microbiome is necessary to provide accurate microbial information and set the base for a successful translation of innovations in the dermo-cosmetic field. The most promising skin and gut-derived microbiome interventional strategies are presented, along with regulatory, safety, industrial, and technical challenges related to a successful translation of these microbiome-based concepts/technologies in the dermo-cosmetic industry.

In conclusion, TRPV-1 targeted therapy helps reduce cutaneous aging and skin sensitivity in overreacting to environmental stimuli and this can be further exploited in management of highly prevalent skin conditions like atopic dermatitis, acne and others.

Biography

Ahmad KHODR, Ph.D. After my "Maîtrise" in Biochemistry in Lebanon, I have been selected by the International Scholarship program of the Ecole Normale Supérieure de Cachan to do my master's in Microbiology and Biochemistry. Following the masters, I have conducted a Ph.D. research program in Microbiology and Molecular Biology at the ENS Cachan, France focusing on the regulation of virulence of Enteropathogenic E. coli by H-NS family proteins. I have carried-out a Post-Doc research program at the Pasteur Institute Paris, where I have applied Transcriptomics and Next Generation Sequencing tools to decipher virulence mechanisms of Legionella pneumophila. Currently, I Lead the Microbiology innovation Lab. and transversal projects dedicated to Microbiome Analysis and Visualization at L'Oréal Research and Innovation working on translating innovative Microbiome derived concepts to cosmetic products. I published and presented my research work in well recognized international peer reviewed journals and congresses.

Received: February 8, 2022; **Accepted:** February 11, 2022; **Published:** June 23, 2022
