

June 21-22, 2018  
London, UK

Audrey Gueniche, Clin Pediatr Dermatol 2018, Voume: 4  
DOI: 10.21767/2472-0143-C1-001

## BIOTICS TO BENEFICIALLY MODULATE SKIN MICROBIOTA

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It is known that both oral probiotic's ingestion (Beyond to their potential benefit in the intestinal microbiota) and topical application of bacterial extract i) may improve skin barrier function ii) may help to balance beneficial vs. harmful microflora iii) may upregulate skin immune response to opportunistic pathogens iv) may downregulate skin inflammatory reactions v) may modulate host gene expression to promote function and delivery of functional proteins to prevent skin diseases. Specifically, *Vitreoscilla filiformis* extract (a hydrothermal species) topically applied were shown to be beneficial on atopic dermatitis (AD), by stimulating antimicrobial peptide and immunomodulatory pathways (e.g., IL10, TReg) leading to reduce skin infection and inflammation. In addition, we demonstrated that alive *Lactobacillus paracasei* ST11 by oral route stimulate skin antimicrobial peptide, help skin barrier recovery and reduce skin inflammation leading to improve dandruff condition with a rebalance scalp microbiota. Thus skin microbiota is fundamental, a part of the skin innate immunity. Rebalancing the microbiota in case of skin disorders by probiotics either oral route or bacterial extracts by topical application have a good relevance.



### Biography

Audrey Gueniche has obtained her Pharmacist degree and PhD degree in Skin Biology more than 20 years ago. She is an expert in Immunology and Microbiology. Her main expertise is on Skin Topical Treatment and food supplement for skin and hair health, especially using probiotics, natural extract and bacterial extracts. She is currently a Senior Clinical Expert in Loreal Research and Innovation. She has a complete experience from the *in vitro* evaluations/ preclinical studies to clinical trials. Her passion is to always reinvent evaluation and find best fields of area in term of actives to promote. She have published over 100 papers in peer-reviewed journals, 5 chapters in books, 2 specials issues in journal where she was the invited Editor. She presented in over 70 international congresses and additionally she was personally invited to give more than 35 plenary conferences.

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