

SPRING DERMATOLOGY & SKIN CARE EXPO CONFERENCE

May 14-15, 2018 | Montreal, Canada



Chun-Ming Eric Huang

University of California, USA

A skin probiotic microbiome bank


In this speech, I will outline you how we establish a skin probiotic microbiome bank with more than 50 skin probiotic bacteria? In addition, I will highlight how these skin probiotic bacteria can regulate our skin innate and adaptive immunity for treatment of various skin diseases including acne vulgaris. To rebalance the dysbiotic skin microbiome, our strategy of using precision microbiome approaches is to exclusively trigger the fermentation of probiotic bacteria by selective fermentation initiators (SFIs), which will amplify the fermentative (zymological) activity of probiotic bacteria against pathogens. SFIs can be synthesized from carbohydrates, polymers and/or lipids (PSL).

Unlike antibiotics, SFIs eliminate pathogens by boosting zymological activity of probiotic bacteria. I will summarize how skin probiotic bacteria and SFIs impact the future development of drugs, vaccines, probiotics/prebiotics and diagnostics for treatments of skin diseases.

Speaker Biography

Chun-Ming Eric Huang is an Adjunct Professor of medicine in the department of dermatology at UC San Diego. His research has been focused on understanding the role of skin microbiome in the human diseases and developing new drugs and modalities including vaccines and drugs for treatments of skin diseases.

e: chunming@ucsd.edu

 Notes: