

Inflammatory Skin Diseases: Correlations Between Clinical Features and Microbiome Changes

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The *skin microbiome* is a complex ecosystem of skin's protective microbial communities whose imbalance can induce changes within the "interactomes" host-microbes (1-4). Microbiome's changes are linked to complex mechanisms leading to triggering or to aggravation of chronic inflammatory skin diseases as atopic dermatitis, psoriasis, acne, and others (5-7).

The learning objectives of this lecture is to make an update on skin's microbiome changes in common inflammatory diseases of the skin as acne and atopic dermatitis and present recent results on normalizing skin microbiome in these diseases with the good clinical outcome significantly correlated to microbiome's improvement.

References

1. Pace NR, et al. "Time for a change". *Nature* 2006;441(7091):289-300
2. Moissl-Eichinger C, et al. *Trends Microbiol* 2018;26(1):70-85
3. Zhu T, et al. *Front Microbiol* 2020;11:1790
4. Nakatsuji T, et al. *Nat Commun.* 2013; 4: 1431.
5. Schröder JM. *Allergol Int.* 2011;60(1):17-24.
6. Woo TE, et al. *J Am Acad Dermatol.* 2020;82(1):222-228
7. Hurabielle C, et al. *PNAS* 2020;117(28):16465-16474