痤疮中的皮肤免疫过程综述

A review of skin immune processes in acne

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中文研究概述

综述从皮脂、微生物、毛囊角化和局部炎症等因素出发，梳理痤疮发生与进展中的皮肤免疫过程，讨论微生物、脂质介质和神经肽的免疫刺激作用。

文章将先天与适应性免疫细胞的信号感知和反应联系起来，并指出不同病程阶段的免疫时空模式仍缺少精细刻画。作者讨论了单细胞与空间RNA测序等方法的研究价值。

护肤研发启示

帮助痘痘相关皮肤科研区分微生物、皮脂与免疫环节，而不是将问题简单归因于单一因素。综述讨论疾病机制，不构成某款化妆品治疗痤疮的依据。

English summary

This review examines immune processes in acne, including signals from microorganisms, lipid mediators and neuropeptides and responses by innate and adaptive immune cells.

It highlights incomplete knowledge of when and where immune activity occurs during disease progression, and discusses single-cell and spatial RNA approaches for further investigation.

The review provides mechanistic context for acne-related skin research; it does not establish a cosmetic product's ability to treat acne.

研究信息

研究方法：皮肤免疫与痤疮相关文献归纳

研究对象：痤疮病程中的免疫细胞、刺激信号和皮肤微环境

结果对应场景：文献层面的疾病机制与研究方法讨论

实验范围与结果

- 本文为综述，没有新增护肤产品干预试验。
- 作者明确指出各病程阶段免疫活动的精确时空模式仍未充分明确。

出版与来源

本索引由BTN整理，不是出版商原始论文。

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BTN论文详情: https://www.botanee.com.cn/science/publications/a-review-of-skin-immune-processes-in-acne