Emollient plus BULLETIN

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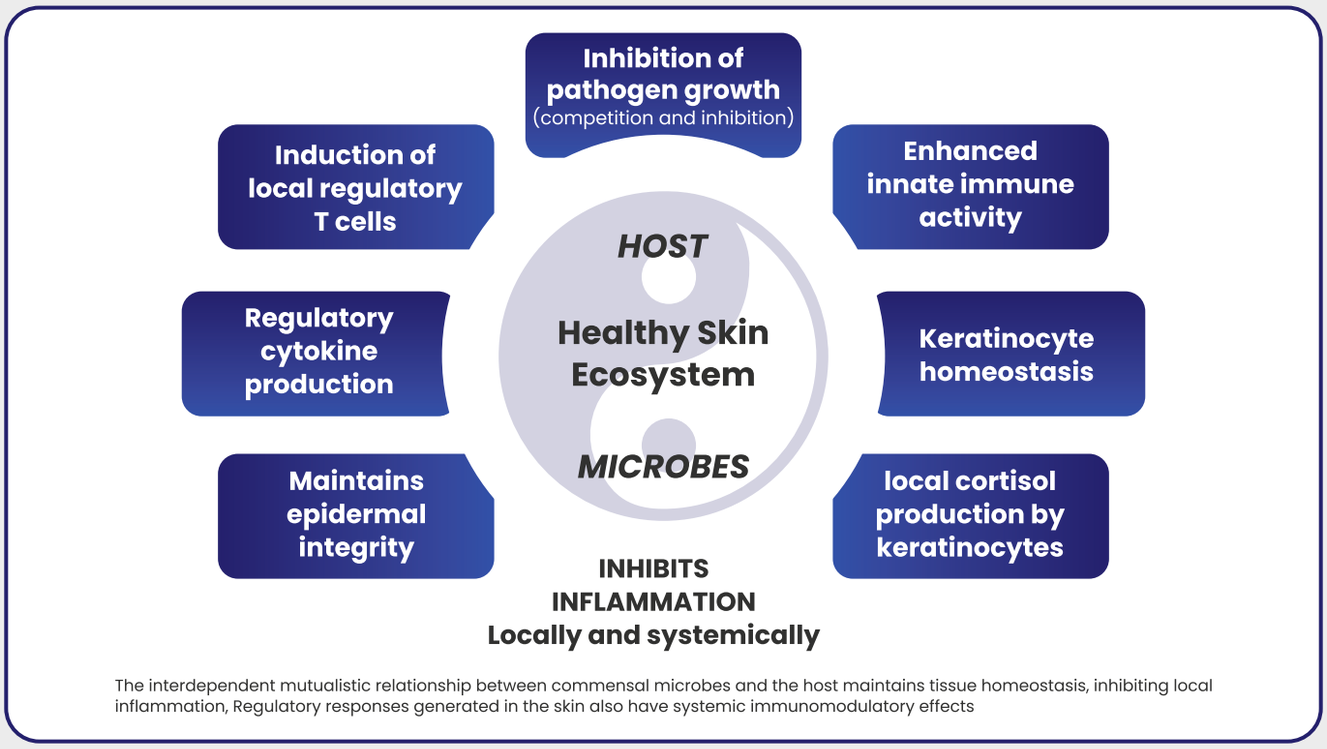
The skin mibrobiome: impact of modern environments on skin ecology, barrier integrity, and systemic immune programming

P. Susan Et al.

The skin microbiome: The importance of cutaneous ecosystems

Skin microbiota play an integral role in the maturation and homeostatic regulation of keratinocytes and host immune networks with systemic implications. Thus, factors which alter the establishment and health of the skin microbiome have the potential to predispose to not only cutaneous disease, but also other inflammatory non-communicable diseases (NCDs).



The interdependent mutualistic relationship between commensal microbes and the host maintains tissue homeostasis, inhibiting local inflammation, Regulatory responses generated in the skin also have systemic immunomodulatory effects

Barrier Disruption in Allergic disease

Abnormal skin colonization may contribute to abnormalities of epithelial development, integrity and predispose to local and systemic immune dysregulation – often first manifest as food allergy and eczema.

Staphylococcus aureus colonization and reduced microbial diversity is seen in over 90% of individuals with eczema compared with less than 5% of unaffected individuals.

Human colonization with S. aureus in epidemiological studies has been associated with relative loss of mutualistic microbes particularly a subset of S. epidermidis which inhibits and destroys S. aureus biofilm formation by the production of serine proteases.

A complex feedback loops suggested by the observation that improving barrier function and reducing skin inflammation significantly reduces S. aureus burden in children and adults with eczema.

In Chronic Dermatitis Conditions

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Cream/Lotion

The Emollient +plus

- **Epidermosil® Bio-PGA** — 1 Intense **Skin Hydration**
- **Oliconew** — 2 Repairs **Skin Barrier Abnormalities**
- **Niacinamide** — 3 Regulates **Immune Dysfunction**; 4 Maintains **Skin Microbiome**
- **Derma-Clera® Ascorbosilane C** — 5 Reduces **Inflammation & Pruritus**

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Dermatologically Tested | **Soothing & instant cooling** | **Strengthens skin barrier** | **Suitable for sensitive skin**

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