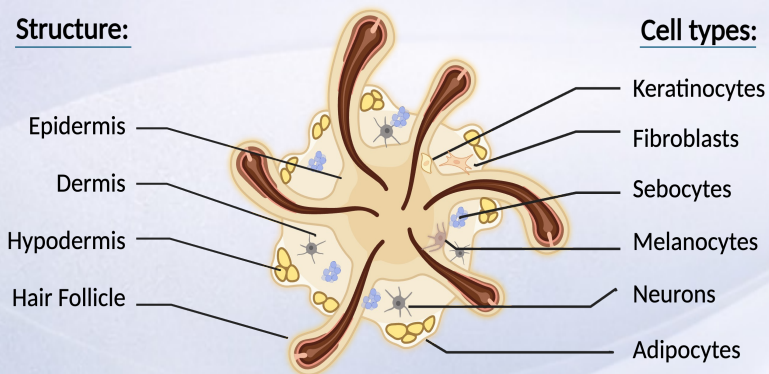


Human Skin Organoids: Predictive platform for premium dermocosmetic testing

→ What is a Skin Organoid?

Skin Organoid: a three-dimensional human biological model derived from stem cells that recapitulates the key architecture and functions of real skin.

Structure:



Cell types:

Applications:

- Anti-aging & Longevity actives
- Hydration & skin barrier function
- Pigmentation / Brightening actives
- Scalp care & hair growth
- Sensitive skin and inflammatory conditions

BioHive recent advances:

Neuro-functional skin models ; Organoids for topical testing ;
Atopic Dermatitis patient-derived Organoids

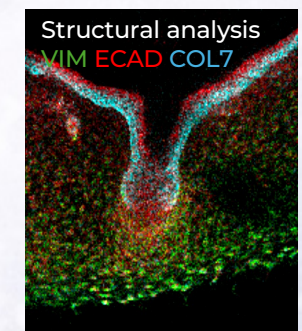
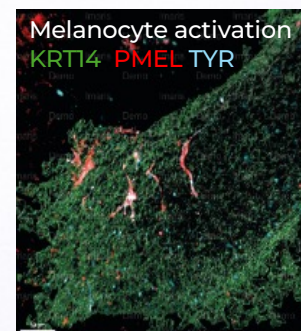
→ Bridging Science and Brand Value

- **Human skin diversity** – Patient-derived, multi-ethnic models
- **Controlled stress testing** – UV, oxidative stress, inflammation
- **Long-term exposure** – Up to 90 days
- **Mechanistic validation** – Mode-of-action confirmed
- **Claim-ready data** – Robust, human-relevant evidence



- **De-risk active development** – Smarter early decisions
- **Accelerate validation** – Fast-track high-potential actives
- **Elevate premium positioning** – Support inclusive innovation
- **Strengthen scientific claims** – Enhance credibility & differentiation

Functional readouts:



KRT14: Keratin 14, PMEL: Premelanosome protein (GP100), TYR: Tyrosinase, TUJ1: bIII-tubulin (TUBB3), VIM: Vimentin, ECAD: E-Cadherin (CDH1), COL7: Collagen 7, HF: Hair follicle

