

# SKIN MICROBIOME RESEARCH ON 3D HUMAN TISSUE MODELS

**What about the HOST?**



within a microbial community  
there are **different ways** to  
approach the **HOST ...**

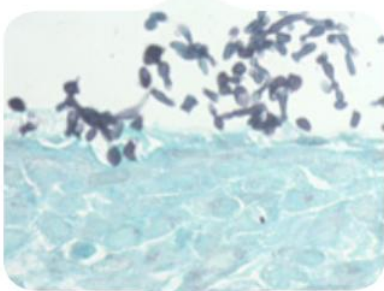
**VitroScreen** microbiome research platform is based on human tissue models colonized with bacteria and yeasts to explore and understand the **HOST RESPONSE**

# How a bacterial community can influence skin health and appearance?

- Mechanism of action and efficacy of prebiotic, probiotic and postbiotic on *S.epidermidis* or *S.aureus* colonized models
- Disinfectant, detergents, preservatives interference with commensal and pathogens bacteria proliferation and adhesion
- Rebalancing or preserving the bacterial community:co-colonization with *S.epidermidis* and *S.aureus*
- Preventing *S. aureus* biofilm formation or disrupting fully established biofilm
- Atopic Dermatitis Immuno-competent model
- Influencing or re-orienting scalp microbiota: competition between *M.restricta* and *Cutibacterium*
- Biofilm and aphtous lesions on reconstructed oral mucosa
- Inhibition of *E.coli* and *C.albicans* on reconstructed vaginal mucosa

## R&D Activities

- UV-induced damages on reconstructed colonized pigmented epidermis
- $\mu$ -adipose tissue : influence of postbiotic
- Body odour modification by axillary microbiota
- Skin response to systemic exposure to nutritional ingredients
- Colonized models with site specific clinical isolates



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**VitroScreen**

excellence in *in vitro* science