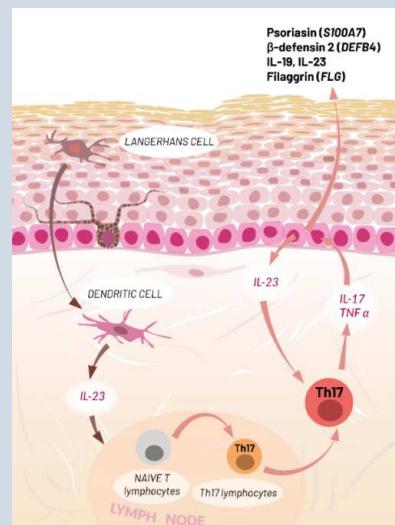


PSORIASIS MODELS – Th17 INFLAMMATION

Psoriasis is a frequent multifactorial chronic inflammatory skin disease. IL-17, mostly secreted by Th-17 T-cells is the psoriasis main driver. It activates NFkB, C/EBP and STAT1 in keratinocytes and other skin cells. In response, activated keratinocytes synthesize antimicrobial peptides (e.g. psoriasin, β -defensin2) and cytokines (e.g. IL-23, IL-19).



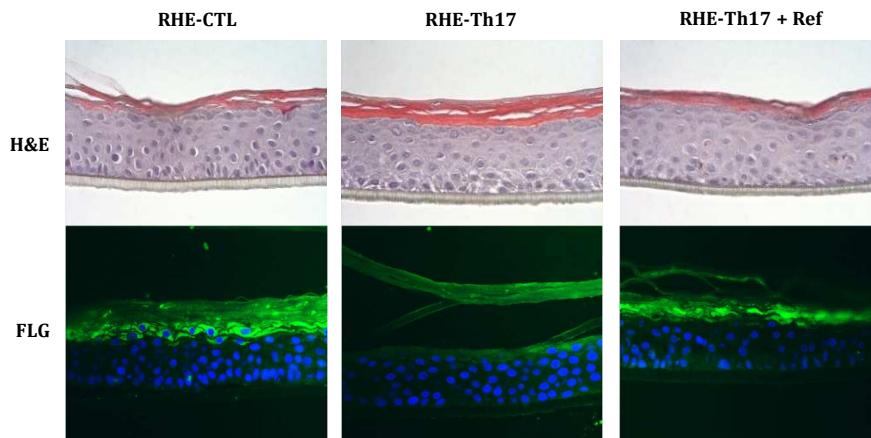
SKIN MODELS:

- **RHE-Th17:** reconstructed human epidermis treated with Th17 interleukins
- **NHEKs-Th17:** primary human keratinocytes treated with Th17 interleukins
- Positive reference (Ref) available for full objectivation

ENDPOINTS:

- Morphological analysis by Hemalun/Eosin (H/E) staining
- Level of activation of **transcription factors** involved in Th-17 inflammation (NFkB, STAT3, etc.)
- Localization and quantification of protein markers by **western blotting** ($\text{I}\kappa\text{B}\zeta$) or **immuno-staining** (FLG, Psoriasin, β defensin2, etc.)
- **Quantification of cytokines** released in culture supernatants by ELISA (IL-19, IL-23)
- **Expression of genes playing key roles in psoriasis, by RT-qPCR**: individual gene expression by TaqMan or 96 key genes expression by TaqMan Low-Density Array (contact StratiCELL for more details about the Sensitive-TLDA arrays)

H&E staining and Filaggrin (FLG) immunofluorescence of RHE untreated (CTL) or treated with Th17 cytokines (RHE-Th17) compared to positive reference (RHE-Th17 + Ref).

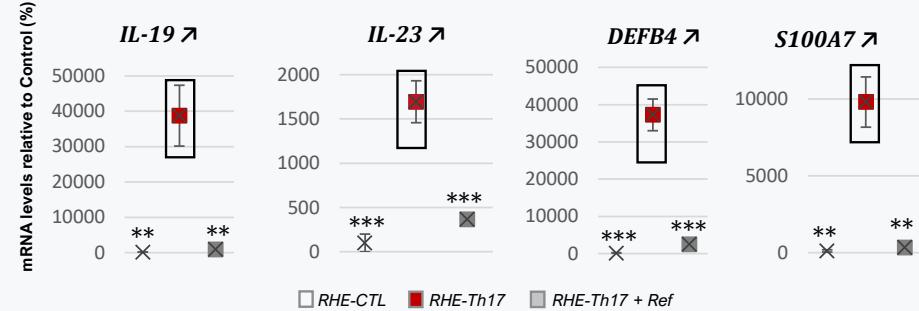


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Gene expression levels evaluated by RT-qPCR (**: p<0,01 - ***: p<0,001).



IL-19 and IL-23 release measured by ELISA in RHE supernatants (**: p<0,1 - ***: p<0,001).

