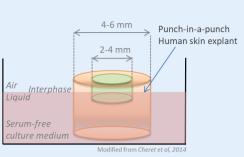
Investigating effects on acute and pathological wound-healing

Our Method



Acute and pathological wound healing models using human full-thickness skin ex vivo with partial thickness wounds

Read-out parameters:

keratinocyte migration, re-epithelialisation, keratinocyte proliferation and apoptosis, associated keratin, angiogenesis, immune cells, transcriptome analysis...

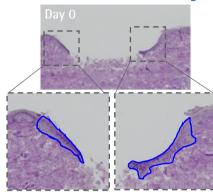
Substances can be applied either topically or systemically

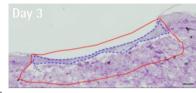




Macroscopic images of wound closure over time.

Complete wound closure during the culture under acute wound healing conditions in selected punches





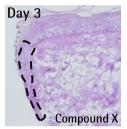
Representative images of PAS stained skin sections. (Dashed) blue lines show the newly formed epitelial tongue, wound area is marked by red line. Scale bar = 100μm.

Selection of our publications on the topic: Post et al., Arch Dermatol Res 2021; Liao et al., Arch Dermatol Res 2019; Nasir et al., Wound Repair Regen 2018; Langan et al., Arch Dermatol Res. 2018; Tsai et al., Exp Dermatol 2017; Busse et al., J Invest Dermatol 2014; Meier et al., PLoS One 2013

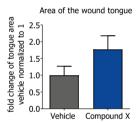
Study example: Compound X promotes wound-healing ex vivo

 Compound X promotes re-epithelialization of the newly generated wound tongue

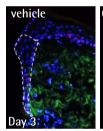


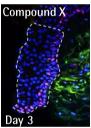


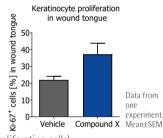




2. Compound X increases keratinocyte proliferation in the newly generated wound tongue



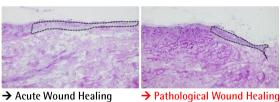




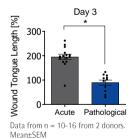
Immunofluorescent staining of Ki67+ cells (proliferating cells)

Pathological Wound Healing ex vivo

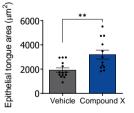
1. Wound-healing is impaired under pathological conditions

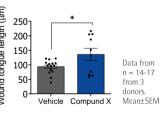


Representative images of PAS stained skin sections. Black lines show the newly formed epitelial tongue.

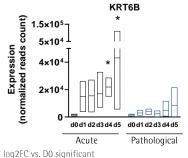


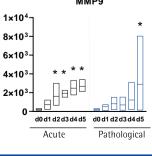
3. Compound X increases wound tongue area and length in pathological wounds after 3 days

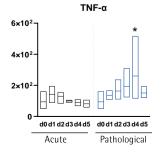




2. Transcriptomic changes in acute and pathological wound healing conditions ex vivo







Contact us for a customized study:

CEO:

Dr. Marta Bertolini (PhD)

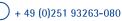
Dr. Janin Edelkamp (PhD)

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- Comprehensive project reports & manuscript drafting and submission

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