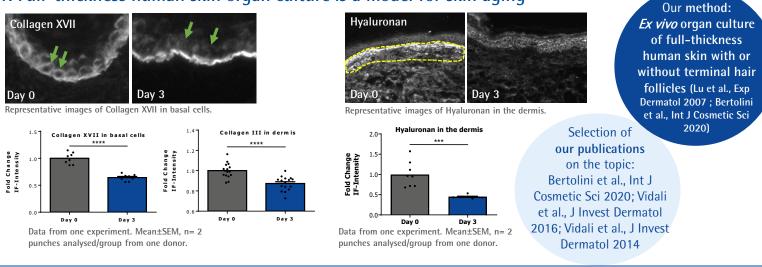
Investigating the effect of a test compound on skin rejuvenation

Investigating aging in human skin organ culture ex vivo

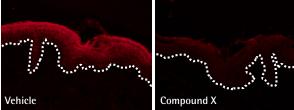
1. Full-thickness human skin organ culture is a model for skin aging



Study example: Compound X promotes skin rejuvenation ex vivo

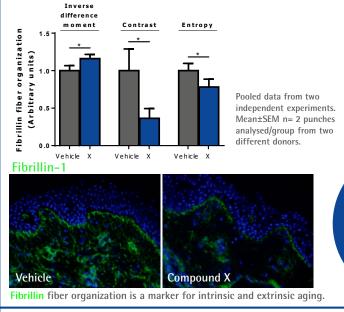
1. Compound X decreases degradation of extracellular matrix



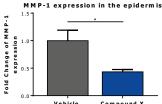


MMP-1 immunofluorescence reveals proteinase expression, responsible for degrading collagen, elastic, and fibrillin-rich microfibers.

3. Compound X improves dermal fiber organization

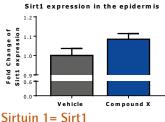




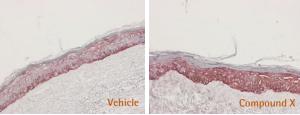


Data from one experiment. Mean±SEM n= 2 punches analysed/group from one donor.

2. Compound X increases energy metabolism



Pooled data from two independent experiments. Mean±SEM n= 2 punches analysed/group from two different donors.



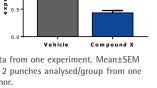
Sirt1 immunoreactivity indicates mitochondrial homeostasis, regulating senescence, delays aging, and ensures genomic stability.

Contact us for a customized study:

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> For more details see also our webpage: www.monasteriumlab.com



Read-outs: energy metabolism,

mitochondrial

biogenesis, oxidative stress, senescence, fiber

composition, skin

elasticity, ...

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