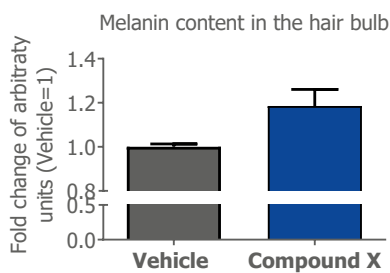


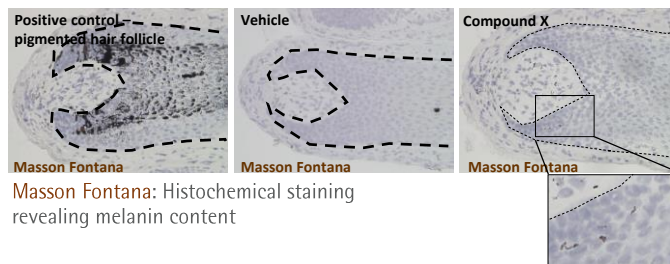
Investigating the effect of a test compound on hair follicle pigmentation

Study example: Compound X stimulates pigmentation in gray hair follicles

1. Compound X stimulates melanin production

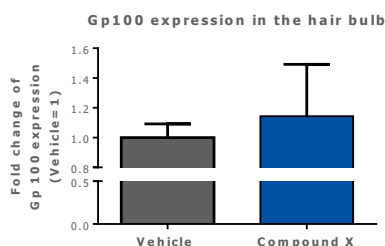


Pooled data from two independent experiments. Mean±SEM, n=4-6 anagen VI hair follicles from two donors.

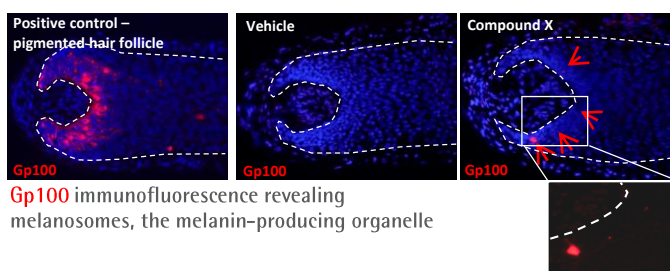


Masson Fontana: Histochemical staining revealing melanin content

2. Compound X tendentially promotes the formation of new melanosomes



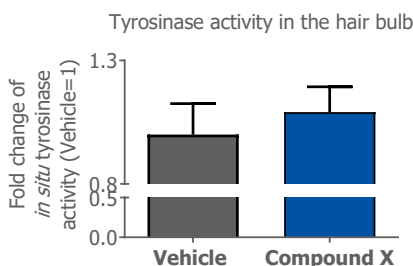
Pooled data from two independent experiments. Mean±SEM, n=5-8 anagen VI hair follicles from two donors.



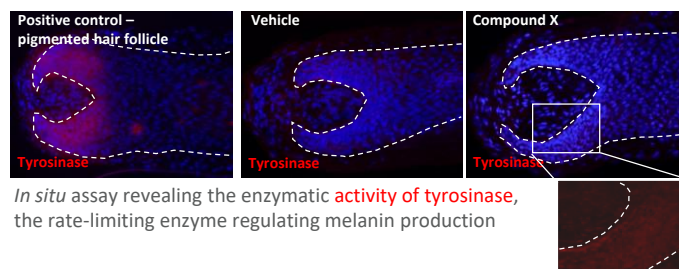
Gp100 immunofluorescence revealing melanosomes, the melanin-producing organelle

Selections of our publications on the topic:
 Chéret et al., Br J Dermatol. 2020; Hardmann et al., J Invest Dermatol 2015; Samuelov et al., J Invest Dermatol 2013; Gaspar et al., J Invest Dermatol 2011

3. Compound X tendentially increases the activity of tyrosinase



Pooled data from two independent experiments. Mean±SEM, n=4-5 anagen VI hair follicles from two donors.



In situ assay revealing the enzymatic activity of tyrosinase, the rate-limiting enzyme regulating melanin production

Read-outs:
 Hair Pigmentation,
 Melanocyte Maturation,
 Melanin Transfer,
 Activation Melanogenesis,
 Growth Factors regulating
 Pigmentation



Human microdissected amputated white hair follicles



Human microdissected amputated pigmented hair follicles

Our method: *Ex vivo* organ culture of human healthy microdissected pigmented or gray/white hair follicle (Langan et al., Exp Dermatol 2015; Klopper et al., Exp. Dermatol 2010)

Contact us for a customized study:

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www.monasteriumlab.com

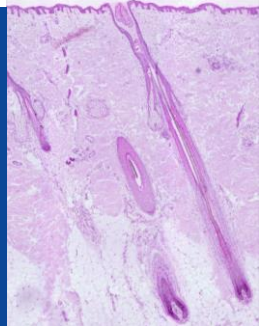


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