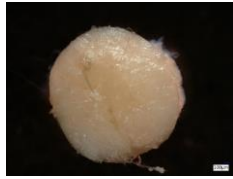


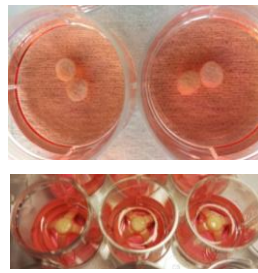
# Analysing effects on barrier integrity *ex vivo*



full-thickness  
human skin



Our  
experimental  
design



Ex vivo organ culture

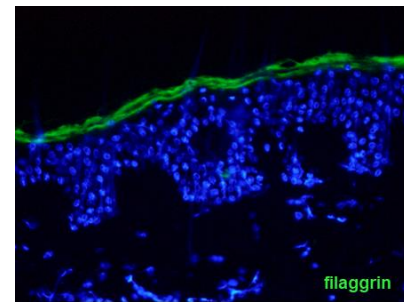
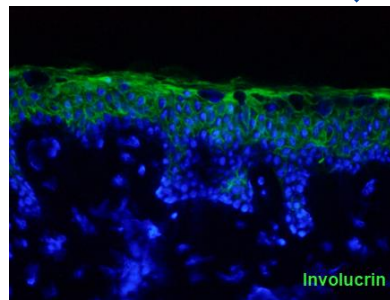


sample preparation

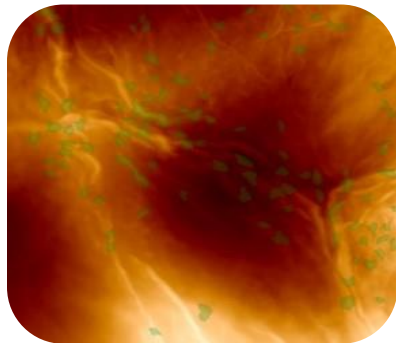
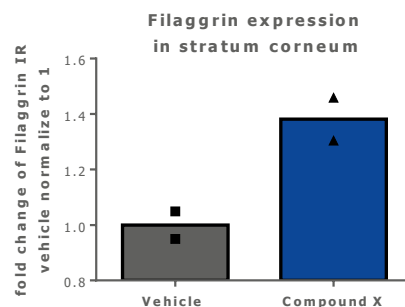


## What we offer:

- human healthy skin from scalp or other body sites
- diseased skin (e.g. from psoriasis, atopic dermatitis,...)
- systemic or topical application mode
- induction of pathological condition (e.g. UV radiation, oxidative stress, pollution,...)



immunohistomorphometry



In addition (NEW!):  
**corneocyte  
nanotexture using  
atomic force  
microscopy**

## Read outs:

- barrier reinforcement
- protection against pollution
- epidermal keratinocyte differentiation
- expression of tight, and gap junctions
- expression of aquaporins

## Publications:

Riethmüller et al., Exp Dermatol 2018; Hulshof et al., Br J Dermatol 2018; Soltanipoor et al., Contact Dermatitis 2018; Engebretsen et al., Br J Dermatol 2018

**Contact us for a  
customized study:**

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For more details see also our webpage:  
[www.monasteriumlab.com](http://www.monasteriumlab.com)

In collaboration with:

**DERMATACT**  
touching phenotypes

**Monasterium Laboratory,  
Skin & Hair Research Solutions GmbH**  
Mendelstr. 17, 48149 Muenster, Germany  
**Founder & CEO: Prof. Dr. Ralf Paus**

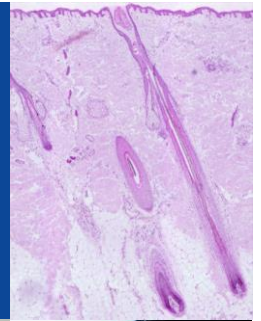


**MONASTERIUM  
LABORATORY**  
Skin & Hair Research Solutions

*All about  
skin and hair  
bioscience!*

Your one-stop source for all  
*in vitro*, *ex vivo* and *in vivo* testing  
plus additional services.

- ▶ Preclinical Research
- ▶ Clinical Research
- ▶ Innovative Technologies Program
- ▶ Education



"We combine  
our unique expertise,  
our project design creativity,  
and our passion to advance  
our clients' success in  
delivering novel and game-  
changing skin and hair  
research solutions"

Founder & CEO:  
Prof. Dr. Ralf Paus

#### Reasons why you should choose Monasterium Laboratory:

- Cutting edge methodologies and techniques
- Tailor-made & customized assays for all needs
- A focus on novel targets and therapeutics for skin & hair disorders: identify-characterize-validate
- Delivering mechanistic action stories, biomarkers & predictors of response
- Claims support for cosmetic ingredients in skin or hair follicle models
- Clinical trials carried out with strategic partners for healthy skin and hair benefits
- Comprehensive project reports & manuscript drafting and submission

#### Monasterium Laboratory

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[www.monasteriumlab.com](http://www.monasteriumlab.com)

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