



**MONASTERIUM
LABORATORY**

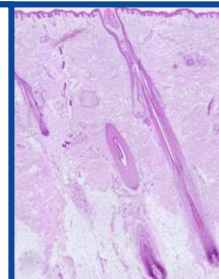
Skin & Hair Research Solutions

www.monasteriumlab.com

*All about
skin and hair
bioscience!*

State-of-the-art technology and expertise
for all your pre-clinical, mechanistic, and
clinical needs in dermatology research.

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



NEW INDICATION

Hidradenitis suppurativa

NEW MODEL



"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

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For enquiries, please contact:

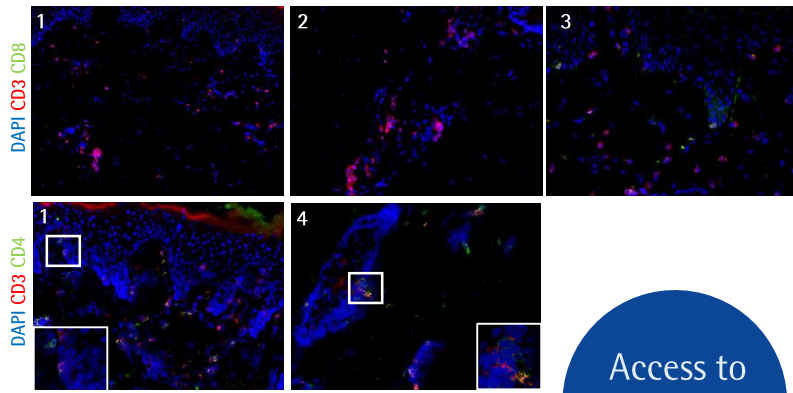
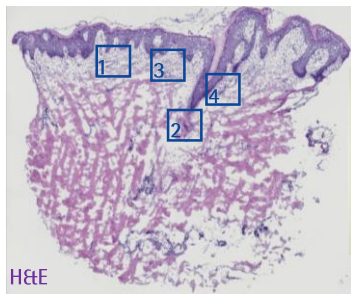
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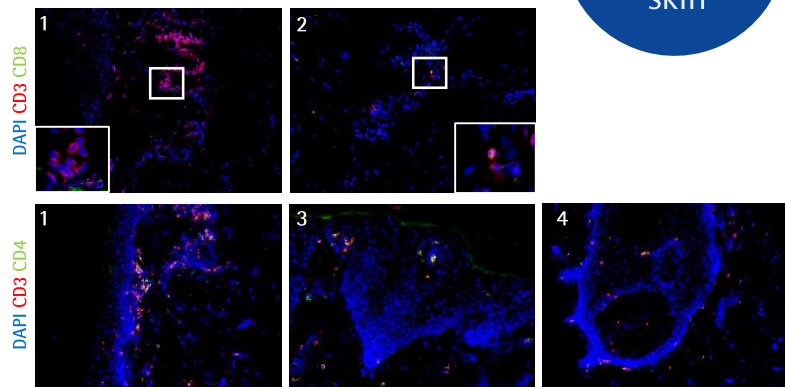
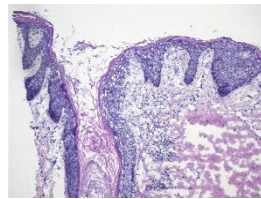
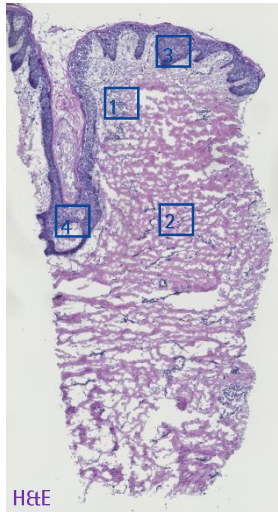
Identification and Characterization of a Target

perilesional skin

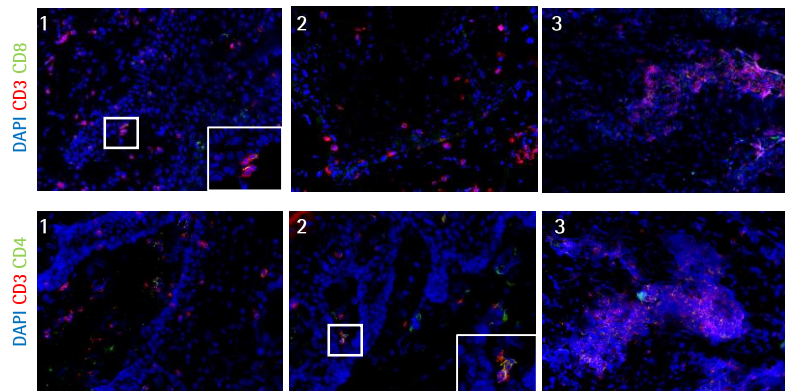
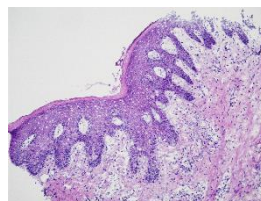
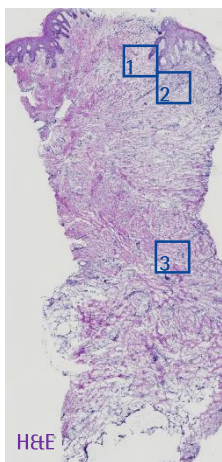


Access to
diseased
skin

fistula



nodule



Additional techniques available to characterize a target:

- Multiplex immunostainings,
- Multiplex *in situ* hybridization or bulk RNAseq or *in situ* transcriptomics,
- Single cell isolation and FACS analysis,
- Single cell isolation (also *in situ*) and scRNAseq,
- Proteomic, and microbiome analysis, ...

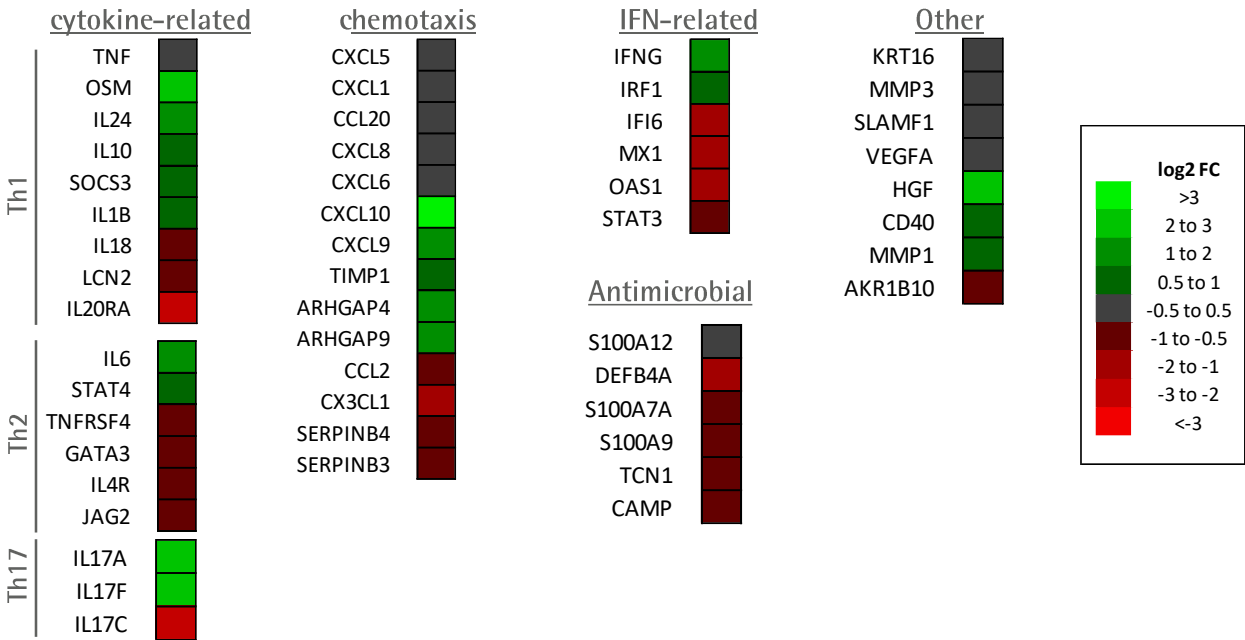
Validate your target of interest *in vitro* and *ex vivo* using our customized models and individualized project designs.

Functional studies *in vitro* using primary epidermal keratinocytes, hair follicle outer root sheath keratinocytes, or PBMCs

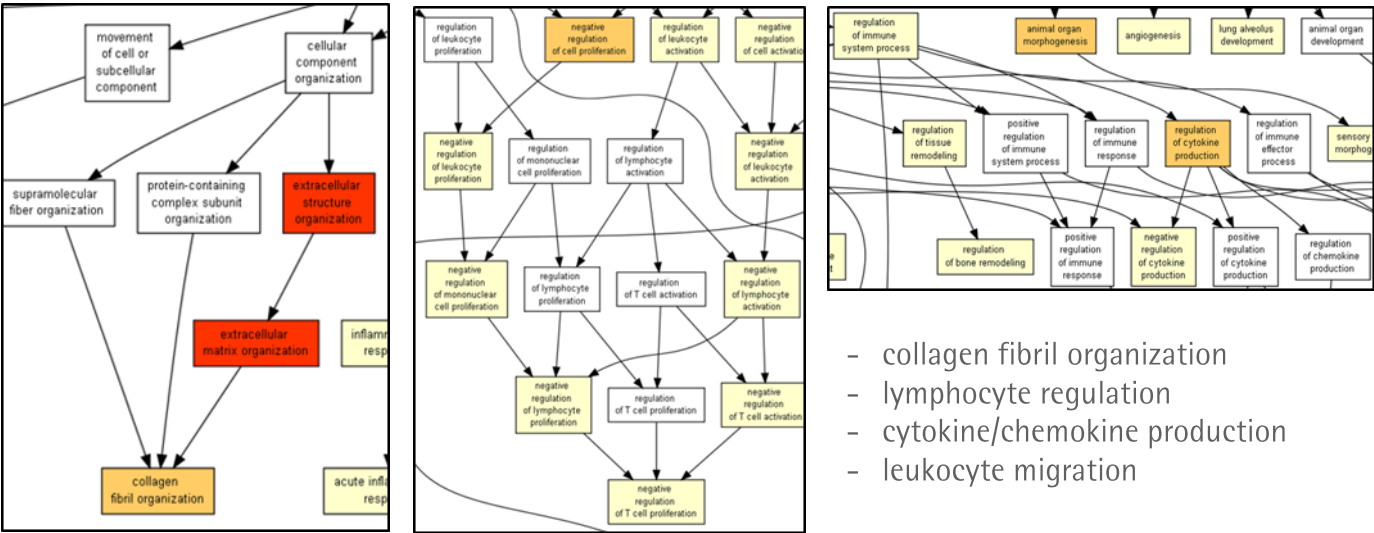
Induction of disease phenotype *in vitro* and *ex vivo* in human scalp skin

Transcriptome analysis of fistula: adalimumab treated vs. vehicle

Selected differentially expressed genes

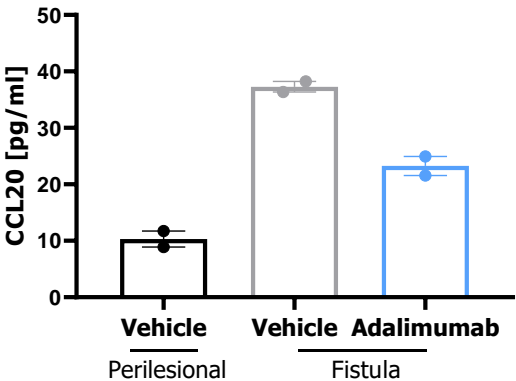


Selected enriched pathways



Release of cytokines into the culture medium

CCL20 in the culture medium
ELISA



Also available:
cytokine array for
other cytokines
important in disease
pathogenesis and
progression in tissue
lysates and plasma

WHY US?



**MONASTERIUM
LABORATORY**
Skin & Hair Research Solutions

Our vision is to provide our clients and partners with the highest quality research in investigative dermatology and trichology – from basic science to translational applied and contract research of high relevance for clinical applications.

Great network of dermatologists and plastic surgeons collecting samples from healthy and diseased skin

World-class scientific leadership & international team

Clinically-relevant *ex vivo* and *in vivo* models

Strong academic background & publication record

What we can do for our clients:

- Conceptualize & build proof-of-concept studies
- Carry out full service portfolio for pre-clinical skin & hair research (*in vitro*, and *ex vivo* assays, and humanized mouse models)
- Provide access to human healthy & diseased skin and hair specimen
- Develop novel cutting edge methodologies and techniques
- Develop tailor-made & customized assays
- Identify, characterize, or validate novel targets and therapeutics for skin & hair disorders
- Discover mechanistic action stories, biomarkers & predictors of response
- Investigate side effects in the skin or hair follicle
- Conduct investigator initiated skin & hair clinical trials
- Prepare comprehensive project reports & manuscript drafts

Innovation is our passion: Innovative Technology Program

Exceptional state-of-the-art research technology

Global client list & testimonials

Biobank: Full access to skin & hair samples (patients & healthy subjects)

Investigative dermatology:
Acne Vulgaris, Atopic Dermatitis, Psoriasis, Alopecia Areata, Androgenic Alopecia, Hidradenitis Suppurativa, Vitiligo, Chronic Itch, Prurigo Nodularis, etc.

We are supported by world-wide recognized experts in dermatology: Alfredo Rossi, Amos Gilhar, Désmond J. Tobin, Erwin Tschachler, Falk G. Bechara, Francisco Jimenez, Kristian Reich, Mauro Picardo, Thomas Luger, Tiago R. Matos, and many more!