

All about skin and hair bioscience!

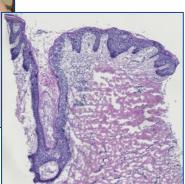
State-of-the-art technology and expertise for all your pre-clinical, mechanistic, and clinical needs in dermatology research.

- Pre-clinical Research
- Clinical Research
- Education



Hidradenitis suppurativa





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

Founder & CEO: Prof. Dr. Ralf Paus

Monasterium Laboratory

Skin & Hair Research Solutions GmbH

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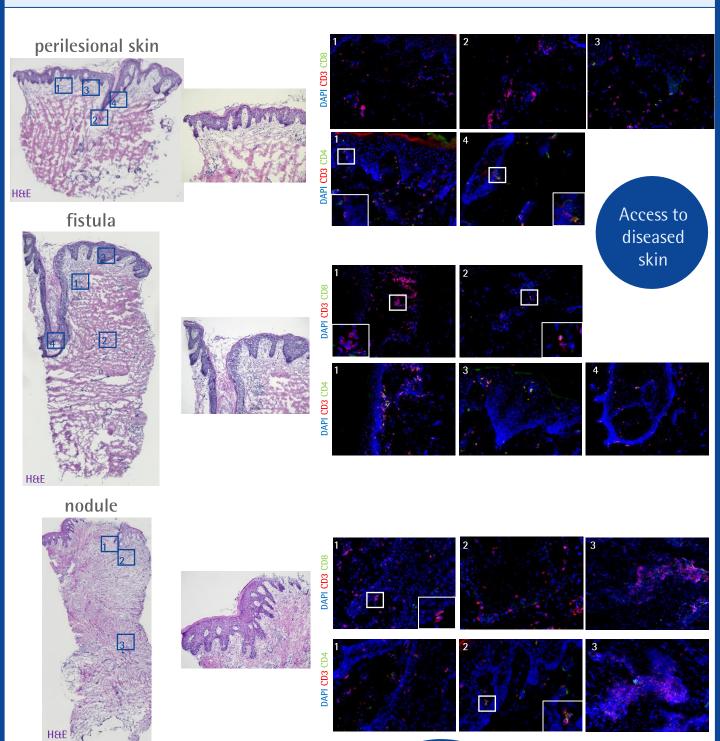
www.monasteriumlab.com

For enquiries, please contact:

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Identification and characterization of a target



Additional techniques available to characterize a target:

- Multiplex immunostainings
- Multiplex in situ hybridization, 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.

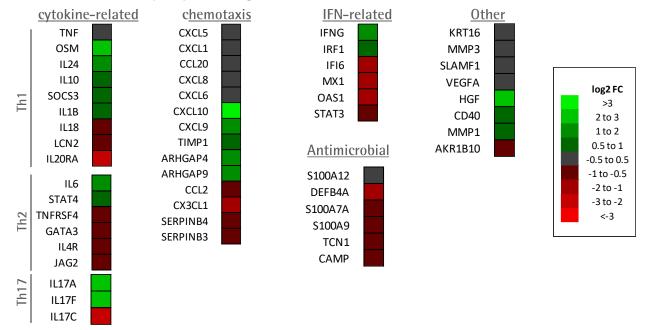
Functional studies in vitro using primary epidermal keratinocytes, hair follicle outer root sheath keratinocytes, or PBMCs

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

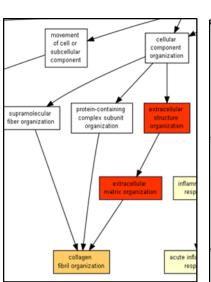
Ex vivo model: Peri-lesional and lesional skin organ culture

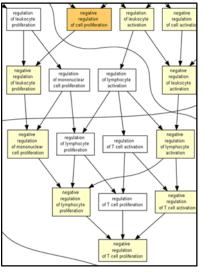
Transcriptome analysis of fistula: adalimumab treated vs. vehicle

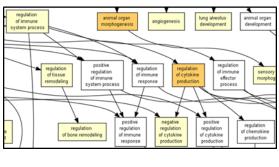
Selected differentially expressed genes



Selected enriched pathways





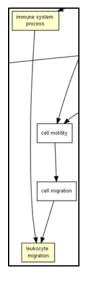


- collagen fibril organization
- lymphocyte regulation
- cytokine/chemokine production

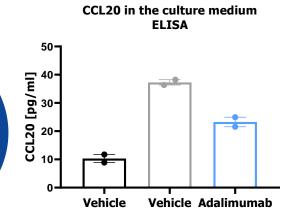
Fistula

leukocyte migration

Release of cytokines into the culture medium



Also available: Cytokine array for other cytokines important in disease pathogenesis and progression. Obtained from tissue lysates or plasma.



Perilesional

WHY US?

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

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.

World-class scientific leadership & international team

MONASTERIUM LABORATORY

> Clinicallyrelevant ex vivo and in vivo models

> > Strong academic background & publication record

Our ambition is to

establish and refine research techniques:

Advanced Methodology

Program

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/ex vivo assays, and humanized mouse models)
- Investigate side effects in the skin or hair follicle
- Establish novel cutting edge methodologies and techniques
- Design tailor-made & customized assays for all needs
- Identify, characterize, or validate novel targets and therapeutics for skin & hair disorders
- Discover mechanistic action stories, biomarkers & predictors of response
- Conduct investigator initiated skin & hair clinical trials
- Provide access to human healthy & diseased skin and hair specimen

Prepare comprehensive project reports & manuscript drafts

Global client list & testimonials

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

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

Exceptional state-of-the-art research technology

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, Vinzenz Oji, Athanasios Tsianakas and many more!