

**MONASTERIUM LABORATORY
SKIN & HAIR RESEARCH SOLUTIONS GmbH**

**1ST ML INTERNATIONAL TRAINING COURSE
7-8th JUNE 2019, MÜNSTER, GERMANY**

**HAIR BIOLOGY & TRANSLATIONAL HAIR RESEARCH
IN A NUTSHELL**



**Monasterium Laboratory
Skin & Hair Research Solutions**

All about skin and hair bioscience

Monasterium Laboratory Skin & Hair Research Solutions GmbH
Mendelstraße 17, 48149 Münster, Germany
Tel: 0251-93264458
www.monasteriumlab.com

Our Mission Statement

In order to combine unique expertise, project design creativity and passion to advance the success of our partners in delivering novel and game-changing skin/hair solutions to customers, Monasterium Laboratory Skin & Hair Research Solutions GmbH was founded in 2015 by Professor Ralf Paus, MD, FRBSB, with the support of a worldwide network of senior advisors. We are privately owned, independent of any major player in the skin/hair industry, and committed to both complete confidentiality in executing contractual and collaborative research projects, as well as in creating basic-to-translational research at the forefront of investigative dermatology.

About us

Monasterium Laboratory offers Preclinical Services in skin and hair follicle research and development. Our philosophy is to operate as much as possible with intact human hair follicles and skin to better predict the clinical response in vivo. These predictions can then be directly probed in our Clinical Hair Trials Unit.

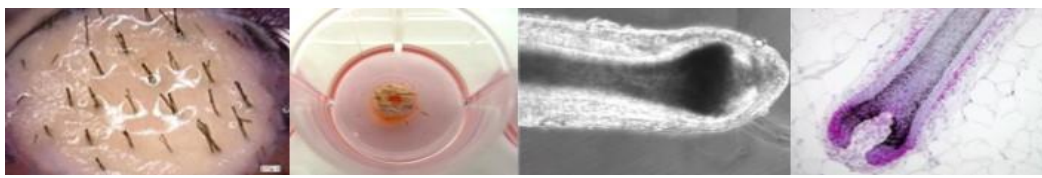
Monasterium Laboratory also develop custom-designed research assays in skin/hair physiology and pathology for consumer products, pharmaceuticals and academic partners. We also run several translational research programs with emphasis on developing innovative pre-clinical research models and identifying novel targets for therapeutic intervention.

On behalf of the Monasterium Laboratory Team,
we thank you for participating in our course.

Thank you!



(Artist: Kerstin Vegelahn, 2018)



Friday, June 7

Hotel Schloss Wilkinghege – Rittersaal

9:30 - 10:30 a.m.

Registration and morning coffee

11:00 - 11:20 a.m.

Welcome & Introduction: The hair follicle as a fascinating mini-organ

Ralf Paus

11:20 - 12:00 p.m.

Human hair follicle anatomy, cycle & growth control; pharmacological strategies to target key molecular players in human hair growth

Natalia Botchkareva

12:00 – 12:40 p.m.

Structure, composition, measurement & controlled release of the hair shaft; cosmetic strategies for human hair growth

Gill Westgate

12:50 - 2:00 p.m.

Buffet lunch & individual discussions

2:00 – 2:30 p.m.

Hair follicle stem cells, dermal hair follicle cells & their therapeutic promise

Andrei Mardaryev

2:30 – 3:00 p.m.

Hair pigmentation, hair greying, & the potential for repigmentation

Desmond Tobin

3:00 - 4:00 p.m.

General Discussion/Q&A: Hair follicle neogenesis, “hair cloning”, cell transplantation & new drug developments for hair loss

Ralf Paus, Francisco Jimenez Acosta, Gill Westgate

4:00 - 4:15 p.m.

Coffee & Tea Break

4:15 - 4:45 p.m.

How to revert hair follicle miniaturization in male & female pattern hair loss: challenges & perspectives

Ralf Paus

4:45 - 5:15 p.m.

Techniques and frontiers in hair transplantation

Francisco Jimenez Acosta

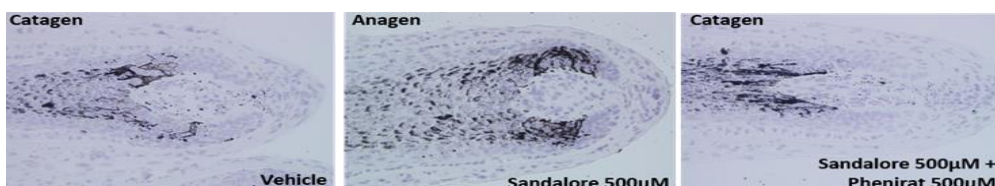
5:15 - 5:45 p.m.

Clinical immunology of the hair follicle: Lessons from alopecia areata

Marta Bertolini

7:00 – 10:00 p.m.

Buffet dinner in Hotel Schloss Wilkinghege



Saturday, June 8

NBZ Seminar Room – Mailand & Monasterium Laboratory

- 9:00 -9:30 a.m. How should new ideas for human hair growth/pigmentation-targeting agents be tested preclinically?
Ralf Paus
- 9:30 - 10:00 a.m. Organ culture models to study human hair growth ex-vivo
Marta Bertolini & Janin Lehmann
- 10:00 – 10:30 a.m. Current & next generation in-vitro models for studying hair follicle cell responses to test agents
Janin Lehmann
- 10:30 – 11:00 a.m. Humanized mouse models for studying human hair growth & hair diseases in vivo
Amos Gilhar
- 11.00 - 11.20 a.m. Coffee & tea break**
- 11:20 - 12:20 p.m. Nutraceuticals as hair growth promoters: A fast-growing market, but how to test efficacy?
Gill Westgate & Marta Bertolini
- 12:20 – 1:00 p.m. Debate Session: Which research developments in the hair growth/pigmentation sector are most interesting for industry over the next 10 years?
Desmond Tobin & Ralf Paus
- 13:00 Tour of ML labs with buffet lunch & collaboration discussions**
- 15:00 End of course**

Transportation

For course purposes, taxi transportation services to and from hotel and course venues are provided by Monasterium Laboratory GmbH. Please be ready in your respective hotel lobbies to be picked-up at the appointed times below.

Factory Hotel Guests:

Friday, June 7th

9:00 – Taxi departure from Factory Hotel to Hotel Schloss Wilkinghege
22:00 – Taxi departure from Hotel Schloss Wilkinghege to Factory Hotel

Saturday, June 8th

8:30 – Taxi departure from Factory Hotel to Monasterium Laboratory

Hotel Schloss Wilkinghege Guests:

Saturday, June 8th

8:30 - Taxi departure from Hotel Schloss Wilkinghege to Monasterium Laboratory