

# Lipidomic analysis of hair follicle *ex vivo*



Human scalp skin



Isolation of amputated microdissected hair follicle



Homogenize hair follicle

Our standardized work flow



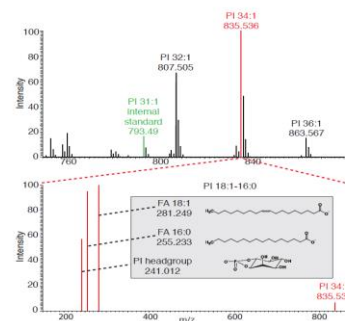
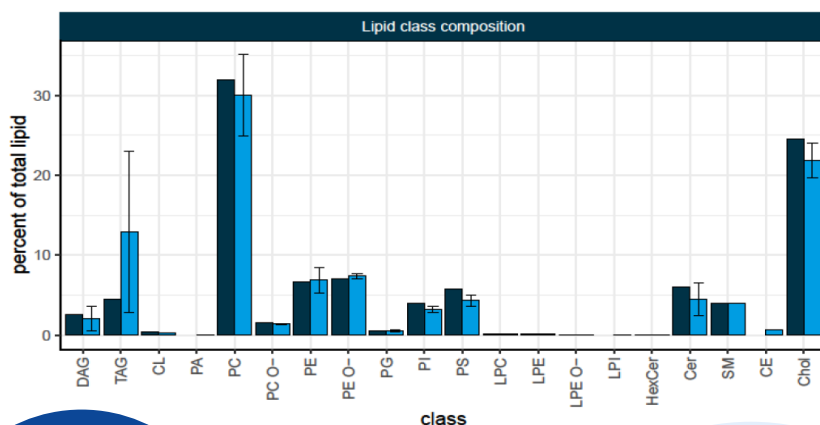
Monasterium Laboratory uses *ex vivo* culture of human hair follicles to investigate whether compounds/formulations influence hair follicle and hair shaft lipid composition.

What we offer:

- untargeted high-resolution shotgun lipidomic analysis
- coverage of the most important lipid classes (e.g. ceramides, sphingomyelin, phosphatidylcholine, and triacylglycerol)
- results include a written report plus interactive data visualization, and interpretation



Mass spectrometry



Data analysis

Example:  
Analysis of microdissected organ-cultured hair follicle *ex vivo*

Read outs:

- Hair follicle barrier
- Hair fiber health
- Hair loss
- Dietary effects (nutraceuticals)
- And many more!

Contact us for a customized study:

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

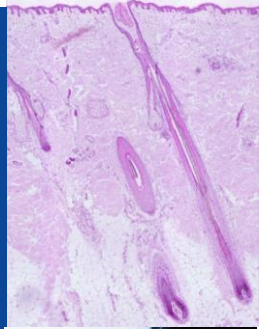


# MONASTERIUM LABORATORY

A **QIMA** Life Sciences Company

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skin and hair  
bioscience!*

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for all your pre-clinical, mechanistic, and  
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our clients' success in  
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Prof. Dr. Ralf Paus

Your one-stop  
source for all *in vitro*,  
*ex vivo* and *in vivo*  
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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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