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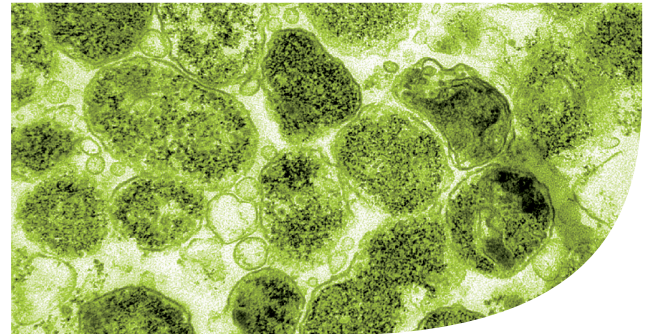
KU LEUVEN



## CUSTOMER REFERENCE

Academic research: lipid analysis of various model organisms

### Lipid analysis for the investigation of a lysosomal storage disorder in a cellular model system (HeLa)



The laboratory of professor Wim Annaert at the Flanders Institute for Biotechnology (VIB) Center for the Biology of Disease, KU Leuven focuses on understanding the molecular biology of membrane transport in a disease-related context with a major focus on Alzheimer's disease.

The Annaert Lab has developed superparamagnetic iron oxide nanoparticles (SPIONs) for the isolation of ultrapure plasma membranes and lysosomes allowing subsequent high resolution profiling of their biomolecular composition.

With its Shotgun Lipidomics technology, Lipotype delivered its one-of-a-kind, detailed, quantitative information on lipid structure and composition of cell culture samples and purified cellular organelles. This fruitful collaboration between the Annaert Lab and Lipotype demonstrates the power of lipid analysis in cell biological research.

#### PUBLICATION:

**A novel approach to analyze lysosomal dysfunctions through subcellular proteomics and lipidomics: the case of NPC1 deficiency – *Scientific Reports*, 2017**

AK Tharkeshwar, J Trekker, W Vermeire, J Pauwels, R Sannerud, DA Priestman, D te Vrucchte, K Vints, P Baatsen, JP Decuypere, H Lu, S Martin, P Vangheluwe, JV Swinnen, L Lagae, F Impens, FM Platt, K Gevaert, W Annaert

#### About Lipotype

LIPOTYPE is a spin-off company from the Kai Simons and Andrej Shevchenko labs of the world-renowned Max-Planck-Institute of Molecular Cell Biology and Genetics in Dresden, Germany. Drawing on many years of cutting edge research experience, Lipotype delivers comprehensive, absolutely quantitative lipid analysis services for clinical and biological samples on a high-throughput scale. Lipotype offers high quality lipid analysis services for a wide range of customers and applications including biomarker identification for clinical researchers, pharma and biotech companies, functional food development for the food industry, claim support for the cosmetics industry, as well as for the small-scale profiling needs of academic researchers.

#### For enquiries, please contact:

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

**We offer high quality lipid analysis services for a wide range of customers and applications:**



**Biotech and pharma industry, clinical research**

*Drug discovery (mode-of-action studies, target validation, effect of delivery system on lipid metabolism), biomarker identification (pharmacodynamic, pharmacokinetic, CDx), clinical screening and diagnostics*



**Food industry**

*Intervention studies for development of functional food/nutraceuticals*



**Cosmetics and Dermatology**

*Cosmetic claim support, topical drug development, development of personalized cosmetics*



**Academic research**

*Lipid analysis of various model organisms*

