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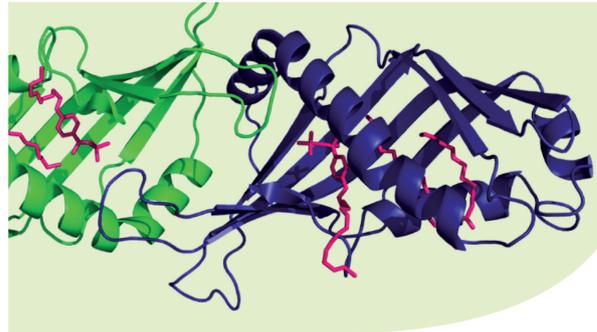
Yale University  
School of Medicine



## CUSTOMER REFERENCE

Academic research: lipid analysis of various model organisms

### Lipid analysis of mammalian cells and derived organelles



The De Camilli Lab at the Yale School of Medicine focuses on mechanisms underlying the dynamics and traffic of intracellular membranes. The De Camilli Lab was interested in determining the impact of lipid transfer proteins (LTPs) – in particular those that act at ER-plasma membrane contact sites – on the lipid composition of the plasma membrane.

With its Shotgun Lipidomics technology, Lipotype delivered its one-of-a-kind, detailed, quantitative information on lipid structure and composition of control and knockout cells for selected LTPs and of their purified plasma membranes.

These observations provided new insight into mechanisms controlling lipid homeostasis at the plasma membrane. This fruitful collaboration between the De Camilli Lab and Lipotype demonstrates the power of lipid analysis in advanced cell biology research.

#### PUBLICATION:

**Control of plasma membrane lipid homeostasis by the extended synaptotagmins – *Nature cell biology*, 2016**

Y Saheki, X Bian, CM Schauder, Y Sawaki, MA Surma, C Klose, F Pincet, KM Reinisch, P De Camilli

#### 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.

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**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*

