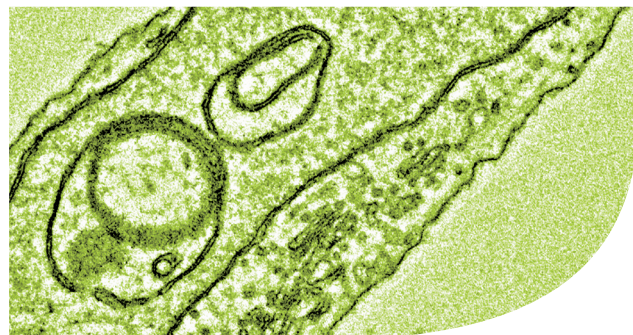




CUSTOMER REFERENCE

Academic research: lipid analysis of various model organisms

Torsins as essential regulators of cellular lipid metabolism and regulators of tissue development



The group of Rose E. Goodchild from VIB Centre for the Biology of Disease (KU Leuven, Belgium) investigated the role of dTorsin – a developmentally essential AAA+ protein, in *D. melanogaster*. The group showed that dTorsin is required for the fat body development and is a previously unrecognized regulator of cellular lipid metabolism.

The researchers presented that the dTorsin activity is localized in the ER-system membranes and that it directly acts on lipid metabolism via suppression of the Lipin enzyme. These findings have implications on understanding the role of Torsins in neurological disorder such as DYT1 dystonia.

The cooperation between the Goodchild Group and Lipotype shows the importance of complex lipid analysis in investigating developmental processes occurring in tissues.

PUBLICATION:

Torsins Are Essential Regulators of Cellular Lipid Metabolism – *Developmental Cell*, 2016

M Grillet, B Dominguez Gonzalez, A Sicart, M Pöttler, A Cascalho, K Billion, S Hernandez Diaz, J Swerts, T Naismith, N Gunko, P Verstreken, P Hanson, R Goodchild

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:



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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

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Cosmetics and Dermatology

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



Academic research

Lipid analysis of various model organisms

