

## Unlocking the Power of Multiomics: Lipotype releases new Multiomics White Paper at ASHG 2018

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Lipotype's new white paper "Unlocking the Power of Multiomics" highlights why combining genomics with lipidomics makes for a great omics pair. It has been released at the Annual Meeting of the American Society of Human Genetics 2018.

Biology and medicine are moving from intervention to prevention. Omics sciences like genomics and lipidomics will be strong contributors to this paradigm shift. However, looking at data from only one omics approach limits explanatory power. Multiomics approaches with data sets from more than one omics discipline provide a more conclusive picture.

### **Genomics for genes, lipidomics for lipids**

Being major players in cardiovascular disease research, genomics and lipidomics are perfectly suited for a joint multiomics approach. It matches the capacity to identify genetic predestinations with one or multiple snapshots of the lipid metabolic status.

Linking genotype with phenotype will be critical when it comes to clinical diagnostics and to the goal of identifying the onsets of a disease.

### **From genotype to phenotype: interconnected disease risk factors**

In this study, a large number of SNPs (single-nucleotide polymorphisms) from genomes was drawn. They were then correlated with corresponding lipid species levels from human blood plasma. The blood plasma has been analyzed with Lipotype Shotgun Lipidomics technology. The most important findings are the following.

First, the heritability of lipid species levels was quantified from the SNP correlations. Second, genetic predispositions influencing lipid species levels provide useful information for cardiovascular disease risk predictions. And third, lipidomics yields greater statistical power to identify SNPs with direct roles in lipid metabolism. Lipidomics outperforms traditional lipid panel measures used in clinical routine.

The full white paper can be downloaded for free at [www.lipotype.com/multiomics](http://www.lipotype.com/multiomics). Please find all published white papers and scientific publications in the Lipidomics Resource Center ([www.lipotype.com/lipidomics-resource-center](http://www.lipotype.com/lipidomics-resource-center)).

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**About Lipotype**

Lipotype delivers comprehensive, absolutely quantitative lipid analysis services for clinical and biological samples on a high-throughput scale. Drawing on many years of cutting edge research experience, 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.

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.

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