

How could LIPIDOMICS strengthen your research?



Date: Tuesday, 19th of September, 2:00 pm

Place: TWINCORE Lecture Hall (0.02)
Feodor-Lynen-Str. 7, 30625 Hannover

Speaker: Dr. Christian Klose (Head of R&D, Lipotype GmbH)

Lipidomics remained for long in the background but is now moving center stage. Dr. Christian Klose (former Max-Planck post-doc and now Head of R&D at Lipotype GmbH) will show how the change has come with Shotgun Lipidomics, a method that combines global coverage and high-throughput with absolute quantification of the hundreds of lipid species that are encountered in cells and body fluids. Most of these lipids reside in cell membranes where they form the functional fluid matrix, where they are directly involved in intracellular trafficking, regulating membrane proteins, cellular architecture and membrane sub-compartmentalization. Each of these broadly defined roles constitutes an exciting target area of lipidomics. The shotgun approach enables analysis of the collective role of lipids in membranes, where big changes can be triggered e.g. by relatively small modifications of length and saturation in many lipid species. Absolute quantification on the other hand makes it possible to track metabolic processes in detail, e.g. how proteins regulate lipid metabolism that in turn influence intracellular trafficking or organ development.

In the second part of the research seminar we will present examples of research projects benefitting from lipidomics analysis.

If you want to meet Christian for an individual discussion on how lipidomics could strengthen your research, please contact us at schoener@lipotype.com or 0351-7965345.