Chemical biology and biochemical research on glycosphingolipids in health and disease

Prof. Dr. Hans Aerts
Leiden Institute of Chemistry,
University Leiden, NL

Glycosphingolipids are implicated in several inherited and acquired disease conditions. In the presentation, Hans Aerts will pay attention to inherited disorders in the lysosomal breakdown of glycosphingolipids by glycosidases with emphasis on the use of activity-based probes, biomarkers and therapeutic approaches. In addition, the beneficial effects of pharmacological manipulation of glycosphingolipid metabolism for the acquired Metabolic Syndrome is presented.