

Special Issue

Mass Spectrometry-Based Lipidomics in Drugs Discovery

Message from the Guest Editors

Several human diseases, such as obesity, cardiovascular disease, cancer, and neurodegeneration, involve changes in lipids and lipid metabolic pathways. Alterations in the expression of different lipid molecules have been used to specify the functionality of various metabolic pathways in disease. In addition, the discoordination of lipids affects the upstream proteomic regulation and interaction. This information can be employed to identify druggable target enzymes to control the pathway of interest. Mass spectrometry (MS)-based lipid profiling and analysis, including liquid chromatography–high resolution mass spectrometry (LC-MS), MS imaging, and lipidomic flux analysis, hold tremendous potential in the diagnostic approach along the drug development process. In this Special Issue, we seek to bring together research from experts in the field, focusing on novel mass spectrometry-based lipidomics techniques and strategies, their applications in targeted-lipid drug discovery and development, and future perspectives that will enhance our biological understanding of molecular lipid metabolism for precise therapeutic opportunities.

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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