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The 2D-LC approach allows sensitive and global analysis of lipids, however, its setup is complex and the second dimension suffers from sample dilution effect. The first application of this method for lipidomics was in 2009 when a lab-made non-polar column was applied to the first column and a commercial normal phase column to the

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second.

Lipidomics

Lipidomics is a newly emerged discipline that studies cellular lipids on a large scale based on analytical chemistry principles and technological tools, particularly mass spectrometry. Recently, techniques have greatly

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advanced and novel applications of
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have emerged. This review provides a
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Consortium are examples of CLASS-type analyses. Studies using this approach: a. Elucidated changes in the macrophage lipidome upon activation of the cells by Kdo 2-Lipid A (Dennis et al., 2010). These included immediate responses in fatty acid metabolism (increases in eicosanoid synthesis), delayed responses in sphingolipid and sterol biosynthesis, and

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ABSTRACT Current studies related to lipid identification and determination, or lipidomics in biological samples, are one of the most important issues in modern bioanalytical chemistry. There are many

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Lipidomics is the large-scale study of pathways and networks of cellular lipids in biological systems. The word "lipidome" is used to describe the complete lipid profile within a cell, tissue, organism, or ecosystem and is a subset of the "metabolome" which also includes the three other major classes of

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biological molecules: proteins/amino-
acids, sugars and nucleic acids.

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This volume explores lipidomics through protocols that focus on areas of utility, techniques, and bioinformatics advancements. The protocols in this book cover topics such as isolation of specific membranes and specialized fractionation of subcellular compartments, and computational and

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functional analysis of lipid metabolizing enzymes.

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according to the following gradient profile: 0 to 3 min, A was maintained at 95%; 3 to 13 min, A was decreased from 95% to 70%; 13 to 18 min, A was continuously decreased to 50%. The column temperature, flow rate, and injection volume was set at 40 °C, 0.2 mL·min⁻¹ and 2 μL, respectively. 2.3.

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Lipidomics has experienced rapid progress, mainly because of continuous technical advances in instrumentation

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Quantitative Lipid Analysis by Mass Spectrometry - Flow chart outlining the procedure for lipid analysis of various lipid classes, from extraction to laboratory analysis to bioinformatics.; Chemical Reviews 111 (2011), Special issue: Lipid Biochemistry Metabolism and Signaling Edited by H. Alex Brown and Lawrence J. Marnett

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