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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 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.

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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

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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 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 functional analysis of lipid metabolizing enzymes.

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Lipidomics Methods and Protocols. Analytical methods were selected from special issues and review papers published by LIPID MAPS® Consortium members, maintaining some of the traditional and introducing new ones with the latest technology

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and instrumentation. These protocols are specific to each lipid category but can be also applied to several ...

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A gradient method was employed 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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