Lipidomics: Comprehensive Mass Spectrometry of Lipids

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DESCRIPTION

Covers the area of lipidomics from fundamentals and theory to applications

• Presents a balanced discussion of the fundamentals, theory, experimental methods and applications of lipidomics

• Covers different characterizations of lipids including Glycerophospholipids; Sphingolipids; Glycerolipids and Glycolipids; and Fatty Acids and Modified Fatty Acids

• Includes a section on quantification of Lipids in Lipidomics such as sample preparation; factors affecting accurate quantification; and data processing and interpretation

• Details applications of Lipidomics Tools including for Health and Disease; Plant Lipidomics; and Lipidomics on Cellular Membranes

ABOUT THE AUTHOR

Xianlin Han is a Professor in the Programs of Cardiovascular Metabolism and Integrative Metabolism at the Sanford Burnham Prebys Medical Discovery Institute. Prof. Han is one of the pioneers in lipidomics and the inventor of shotgun lipidomics. He has published over 180 peer-reviewed papers in journals and 16 invited book chapters with an H-index of 62. He holds 5 international