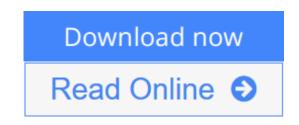


Lipidomics: Comprehensive Mass Spectrometry of Lipids (Wiley Series on Mass Spectrometry)

By Xianlin Han



Lipidomics: Comprehensive Mass Spectrometry of Lipids (Wiley Series on Mass Spectrometry) By Xianlin Han

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

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Editorial Review

From the Back Cover

Covers the area of lipidomics from fundamentals and theory to applications and methods

After years of development, the fundamentals and methodologies of lipidomics strategies have greatly advanced. The advancements and discoveries made in the field have been well-recognized in a great number of publications, special issues in a variety of prestigious journals, and several books edited by experts in the field. It is also clear that the progress of lipidomics has been accelerated by the development of modern mass spectrometry. Mass spectrometric analysis of lipids plays a key role in the discipline. However a systematic and detailed description of these fundamentals, technologies, advancements, and applications is still missing. This book is focused on the mass spectrometry of lipids that has occurred in these years.

The content of this book is classified into four sections: introduction, characterization, quantification, and application. The first part provides the fundamentals of lipids, lipidomics, and mass spectrometry. In the second section, "pattern recognition" for characterization of lipids is emphasized. Appropriate sampling, good practice of lipid extraction, addition of internal standards, practical methods for accurate quantification, data quality control, and others are the topics of the third section. The application of lipidomics strategies for biological and biomedical research is the last section of the book.

Lipidomics: Comprehensive Mass Spectrometry of Lipids features:

- Examples of a variety of diseases including metabolic syndrome, neurological and neurodegenerative diseases, and cancer
- Lipidomics in subcellular organelles and membrane fractions is also discussed to a great degree in this section.
- Large attention on practical quantification of Lipids in Lipidomics such as sample preparation; factors affecting accurate quantification; and data processing and interpretation
- Broad applications of Lipidomics Tools including for Health and Disease; Plant Lipidomics, and Lipidomics on Cellular Membranes

This monograph steps boldly into the area of lipidomics by providing important insights, information, and directions into how one can analyze lipids by mass spectrometry. This book very nicely engages these and more topics that are absolutely essential if one is to use this approach to further unravel and marvel at the mysteries of the living system.

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 patents. He is the associate editor of "Lipids". Prof. Han serves as a member of the Editorial Board of numerous international journals including J. Lipid Res., Mol. Cell Biol. Lipids in Biochim. Biophys. Acta, Chem. Phys. Lipids, and Anal. Biochem.

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Sharon Hollars:

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Andre Rosier:

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