



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

By Xianlin Han

Download now

Read Online 

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

 [Download Lipidomics: Comprehensive Mass Spectrometry of Lip ...pdf](#)

 [Read Online Lipidomics: Comprehensive Mass Spectrometry of L ...pdf](#)

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

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

- Sales Rank: #2225283 in eBooks
- Published on: 2016-04-06
- Released on: 2016-04-06
- Format: Kindle eBook

 [Download Lipidomics: Comprehensive Mass Spectrometry of Lip ...pdf](#)

 [Read Online Lipidomics: Comprehensive Mass Spectrometry of L ...pdf](#)

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.*

Users Review

From reader reviews:

Sharon Hollars:

The e-book with title Lipidomics: Comprehensive Mass Spectrometry of Lipids (Wiley Series on Mass Spectrometry) includes a lot of information that you can study it. You can get a lot of advantage after read this book. This kind of book exist new knowledge the information that exist in this e-book represented the condition of the world today. That is important to yo7u to learn how the improvement of the world. This particular book will bring you throughout new era of the internationalization. You can read the e-book with your smart phone, so you can read this anywhere you want.

Andre Rosier:

Playing with family in a very park, coming to see the sea world or hanging out with good friends is thing that usually you may have done when you have spare time, and then why you don't try issue that really opposite from that. A single activity that make you not feeling tired but still relaxing, trilling like on roller coaster you already been ride on and with addition associated with. Even you love Lipidomics: Comprehensive Mass Spectrometry of Lipids (Wiley Series on Mass Spectrometry), you are able to enjoy both. It is good combination right, you still need to miss it? What kind of hang-out type is it? Oh occur its mind hangout folks. What? Still don't buy it, oh come on its referred to as reading friends.

Rosalie Castillo:

Would you one of the book lovers? If yes, do you ever feeling doubt when you are in the book store? Aim to pick one book that you just dont know the inside because don't judge book by its deal with may doesn't work here is difficult job because you are afraid that the inside maybe not seeing that fantastic as in the outside search likes. Maybe you answer might be Lipidomics: Comprehensive Mass Spectrometry of Lipids (Wiley Series on Mass Spectrometry) why because the wonderful cover that make you consider in regards to the content will not disappoint anyone. The inside or content is definitely fantastic as the outside or perhaps cover. Your reading sixth sense will directly direct you to pick up this book.

Joseph Lee:

Reading a book to become new life style in this 12 months; every people loves to read a book. When you examine a book you can get a lot of benefit. When you read textbooks, you can improve your knowledge, mainly because book has a lot of information into it. The information that you will get depend on what types of book that you have read. If you wish to get information about your research, you can read education books, but if you act like you want to entertain yourself read a fiction books, these us novel, comics, along with soon. The Lipidomics: Comprehensive Mass Spectrometry of Lipids (Wiley Series on Mass Spectrometry) offer you a new experience in studying a book.

Download and Read Online Lipidomics: Comprehensive Mass Spectrometry of Lipids (Wiley Series on Mass Spectrometry) By Xianlin Han #947CARLXP2G

Read Lipidomics: Comprehensive Mass Spectrometry of Lipids (Wiley Series on Mass Spectrometry) By Xianlin Han for online ebook

Lipidomics: Comprehensive Mass Spectrometry of Lipids (Wiley Series on Mass Spectrometry) By Xianlin Han Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Lipidomics: Comprehensive Mass Spectrometry of Lipids (Wiley Series on Mass Spectrometry) By Xianlin Han books to read online.

Online Lipidomics: Comprehensive Mass Spectrometry of Lipids (Wiley Series on Mass Spectrometry) By Xianlin Han ebook PDF download

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

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

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

947CARLXP2G: Lipidomics: Comprehensive Mass Spectrometry of Lipids (Wiley Series on Mass Spectrometry) By Xianlin Han