

Lipidomics

Volume 1: Methods and Protocols

Edited by

Donald Armstrong

 Humana Press

Lipidomics Volume 1 Methods And Protocols Methods In Molecular Biology

Steven B. Bradfute



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Lipidomics Donald Armstrong, 2009-09-28 This guide on methods and protocols of lipidomics covers a wide array of topics including isolation techniques structural analysis lipid rafts lipid trafficking and profiling biomarkers lipid peroxidation software tools and bioinformatics *Lipidomics* Donald Armstrong, 2009 *Lipidomics* Sanjoy K. Bhattacharya, 2023-01-18 This fully updated book presents an account of areas of utility techniques and bioinformatic advancements in the field of lipidomics Beginning with protocols for lipid isolation and extraction the volume continues with techniques from extractive mass spectrometry to imaging mass spectrometry methods allowing localization of lipids in tissues These protocols have been complemented by methods addressing specific problems from membranes fractionated subcellular compartments or organelles to whole organisms Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols as well as tips on troubleshooting and avoiding known pitfalls Authoritative and practical *Lipidomics Methods and Protocols* Second Edition serves as an ideal guide for biochemists molecular biologists neuroscientists vision research scientists as well as all biomedical researchers with interest in disease discovery and drug development

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practical information to researchers from any discipline with a particular therapeutic or bio active substance to deliver this book helps readers understand if liposomes can be of benefit for their particular need what is the best type of liposome to use according to what needs to be delivered where when to deliver it and how to design prepare characterize investigate optimize liposome properties for a particular application The book is structured in Four parts The first covers in a concise but in depth way what liposomes are which are the liposome types advantages disadvantages and what is their stability characterization methods in vitro stability and in vivo fate after different administration methods routes The second part focuses on the different mechanisms for liposomal drug delivery Methodologies technologies for manipulation of liposome structure properties in order to design liposomes for particular delivery applications Specific roadmaps for liposome design are discussed including components to incorporate in liposomes for specific types of encapsulated molecules or specific routes of administration The third part covers liposome applications for drug delivery It focuses on specific delivery considerations for particular diseases Finally the fourth part covers methods of liposome fabrication Focuses on key information What Where How and When to deliver needed for drug delivery researchers Covers all aspects of liposomes in drug delivery in one single volume Guides researchers through the decision process on whether and what liposomes are most applicable to their particular interest

Metabolic Profiling Olga Deda,Helen G. Gika,Ian D. Wilson,2025-01-15 This second edition volume expands on the previous edition with new chapters and updated discussions on the latest advancements in the development and practice of metabolic phenotyping The chapters in this book cover topics such as quality control in untargeted metabolic phenotyping implementation of quality assurances processes careful bio and chemoinformatic data analysis using reversed phase and ion pair LC MS quantitative lipid analysis using supercritical fluid chromatography SFC MS and the targeted determination of metanephrines in urine via LC MS MS Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Thorough and comprehensive Metabolic Profiling Methods and Protocols Second Edition is a valuable resource for all researchers who are interested in incorporating best practices in metabolic phenotyping and learning more about this rapidly advancing field

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