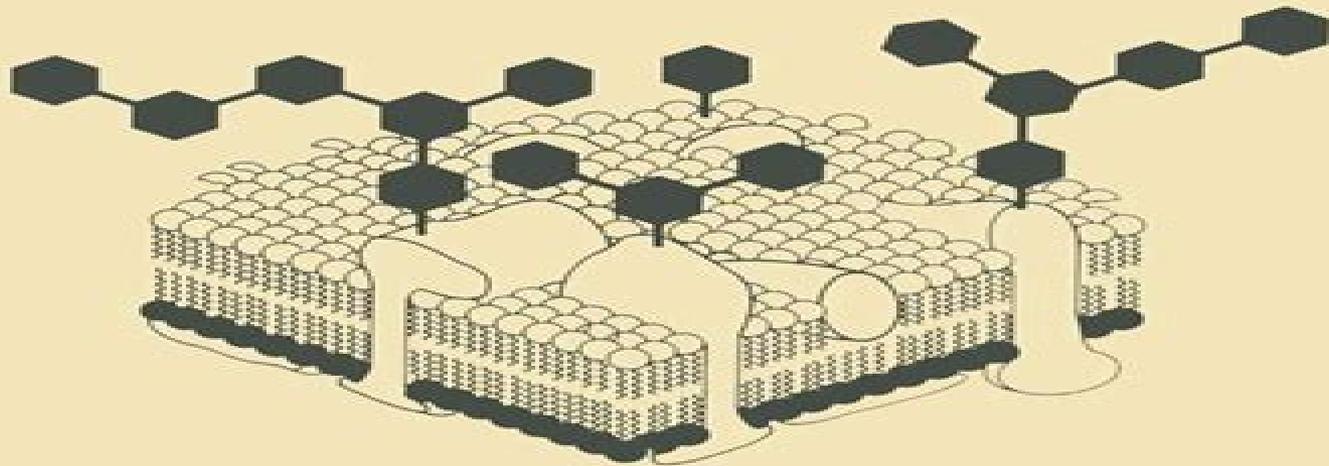


LIPID BIOCHEMISTRY

An introduction
Fourth edition



M. I. Gurr and J. L. Harwood



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Lipid Biochemistry An Introduction

William W. Christie



Lipid Biochemistry An Introduction:

Lipid Biochemistry Michael I. Gurr, John L. Harwood, Keith N. Frayn, 2008-04-15 Since the publication of the first edition of this successful and popular book in 1970 the subject of lipid biochemistry has evolved greatly and this fifth up to date and comprehensive edition includes much new and exciting information Lipid Biochemistry fifth edition has been largely re written in a user friendly way with chapters containing special interest topic boxes summary points and lists of suggested reading further enhancing the accessibility and readability of this excellent text Contents include abbreviations and definitions used in the study of lipids routine analytical methods fatty acid structure and metabolism dietary lipids and lipids as energy stores lipid transport lipids in cellular structures and the metabolism of structural lipids The book provides a most comprehensive treatment of the subject making it essential reading for all those working with or studying lipids Upper level students of biochemistry biology clinical subjects nutrition and food science will find the contents of this book invaluable as a study aid as will postgraduates specializing in the topics covered in the book Professionals working in research in academia and industry including personnel involved in food and nutrition research new product formulation special diet formulation including nutraceuticals and functional foods and other clinical aspects will find a vast wealth of information within the book s pages Michael Gurr was a Visiting Professor in Human Nutrition at the University of Reading UK and at Oxford Brookes University UK John Harwood is a Professor of Biochemistry at the School of Biosciences Cardiff University UK Keith Frayn is a Professor of Human Metabolism at the Oxford Centre for Diabetes Endocrinology and Metabolism University of Oxford UK

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case and the current edition reflects these new advances Our picture of the structure of the fatty acid synthetase has changed dramatically bringing a new concept in enzymology the multicatalytic polypeptide chain This new knowledge owes much to the exploitation of genetic mutants the use of which is undoubtedly going to extend into many other areas of lipid biochemistry An understanding of the control of lipid metabolism has also advanced considerably during the last decade and we have tried to reflect that here although it will be some years before a truly integrated picture can be obtained For this reason we have continued to deal with the control of particular aspects of lipid metabolism fatty acids triacylglycerols lipoprotein in the specific chapters but we can foresee the time when a chapter on the overall integration of lipid metabolism will be appropriate and feasible As a particular example the exciting new concepts of the control of cholesterol metabolism in specific tissues via the interaction of low density lipoproteins with cell surface receptors have been described in Chapter 6

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Fatty Acid and Lipid Chemistry F.D. Gunstone, 2012-12-06 This book has a pedigree It has developed from earlier publications by the author and from his experience over 50 years in reading writing thinking and working with lipids and fatty acids The earlier publications are i An Introduction to the Chemistry of Fats and Fatty Acids Chapman and Hall 1958 ii An Introduction to the Chemistry and Biochemistry of Fatty Acids and their Glycerides Chapman and Hall 1967 iii Lipids in Foods Chemistry Biochemistry and Technology with F A Norris Pergamon Press 1983 iv The Lipid Handbook with J L Harwood and F B Padley Chapman and Hall first edition 1986 second edition 1994 v A Lipid Glossary with B G Herslof The Oily Press Dundee 1992 vi Lecture notes for a course on Fatty Acids and Lipids designed for those entering the oil and fat industry and given on over 20 occasions since 1977 The book is dedicated to the next generation of lipid scientists The study of lipids now involves many disciplines all of which require a basic knowledge of the chemical nature and properties of these molecules which is what this book is about It is written particularly for those who with some knowledge of chemistry or biochemistry need to know more about the nature of lipids and fatty acids

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Lipid Analysis William W. Christie, 2014-06-05 *Lipid Analysis Isolation Separation Identification and Structural Analysis of Lipids* focuses on the methods principles and approaches involved in the isolation identification separation and structural analysis of lipids The publication first elaborates on the structure chemistry and occurrence of lipids isolation of lipids from tissues and chromatographic and spectroscopic analysis of lipids Discussions focus on equipping a laboratory for lipid analysis spectroscopy chromatographic procedures general principles of solvent extraction procedures structural features of lipids important in analyses simple and complex lipids and fatty acids The text then examines the preparation of volatile derivatives of lipids and analysis of fatty acids and simple lipid classes Topics include alkyl diglycerides and neutral plasmalogens analysis of the hydrolysis products of simple lipids preparation of large quantities of pure fatty acids physical characterization of fatty acids location of double bonds in fatty acid chains and saponification of lipids The manuscript covers the analysis and radioassay of isotopically labelled lipids enzymatic hydrolysis of lipids and analysis of molecular species of lipids The publication is a primary reference for researchers interested in lipid analysis

Chromatography for the Analysis of Lipids Eugene W. Hammond, 1993-02-09 *Chromatography for the Analysis of Lipids*

focuses on the three main chromatographic techniques for analyzing lipids thin layer TLC gas liquid GLC and high performance liquid chromatography HPLC It also covers supercritical fluid chromatography SFC Applications for each chromatographic technique are discussed with emphasis on their quantitative aspects and suitability for use and variations in technique are covered in detail Figures are used throughout the book to illustrate typical results which shows end points that can be compared in your own laboratory This important technical book will be an excellent workbench companion for chromatographers food scientists lipid chemists analytical chemists and others who use chromatographic techniques for lipid analysis

Plant Lipids Denis J. Murphy, 2020-02-03 New research tools have revealed many surprising aspects of the dynamic nature of lipids and their participation in processes such as recognition intra and inter cellular signalling deterrence and defense against pathogens membrane trafficking and protein function This is in addition to new information on the more established roles of plant lipids as structural components of membranes and as long term storage products Plant lipids are also increasingly being seen as sources of a new generation of environmentally friendly biodegradable and renewable industrial products including biopolymers and high grade lubricants *Plant Lipids Biology Utilisation and Manipulation* provides a broad overview of plant lipid research and its many applications Linking various disciplines the editor brings together researchers from major international laboratories to review the history and current state of progress in this quickly evolving field The text starts by providing a fascinating historical perspective on the study of plant lipids from its inception as a branch of alchemy in the seventeenth century to the current post genomic era It then offers a detailed discussion on the formation modification and utilization of fatty acids This is followed by an exploration of the major classes of macromolecular structures formed by plant lipids including bilayer membranes and storage bodies From there the contributors consider other types of macromolecular lipid assemblies in plants examining proteins and the key plant lipid structure the cuticle The final chapters look at diverse classes of plant lipids that are linked to various aspects of signaling This text provides an excellent resource for researchers and professionals in plant biochemistry molecular biology biotechnology and genetics in both the academic and industrial sectors It also meets the needs of students looking for a comprehensive introduction to this field as well as direction for fut

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