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Biochemistry of Lipids: Lipoproteins and Membranes, Volume Six, contains concise chapters that cover a wide spectrum of topics in the field of lipid biochemistry and cell biology. It provides an important bridge between broad-based biochemistry textbooks and more technical research publications, offering cohesive, foundational information.

It is a valuable tool for advanced graduate students and researchers who are interested in exploring lipid biology in more detail, and includes overviews of lipid biology in both prokaryotes and eukaryotes, while also providing fundamental background on the subsequent descriptions of fatty acid synthesis, desaturation and elongation, and the pathways that lead the synthesis of complex phospholipids, sphingolipids, and their structural variants. Also covered are sections on how bioactive lipids are involved in cell signaling with an emphasis on disease implications and pathological consequences.

- Serves as a general reference book for scientists studying lipids, lipoproteins and membranes and as an advanced and up-to-date textbook for teachers and students who are familiar with the basic concepts of lipid biochemistry
- References from current literature will be included in each chapter to facilitate more in-depth study
- Key concepts are supported by figures and models to improve reader understanding
- Chapters provide historical perspective and current analysis of each topic

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Editorial Review

About the Author

Dr. Neale Ridgway has made his scientific mark nationally and internationally and is a noted world expert in the synthesis, transport and regulation of two of the most abundant and important lipids in the human body - cholesterol and phosphatidylcholine. His revelations about the signals and pathways that control these lipids are having a profound impact on our understanding of the origins and progression of such diseases as Alzheimer's, atherosclerosis, cancer and lipid storage disorders. His groundbreaking work is frequently cited by other scientists in the literature, a key indicator of his influence and achievements.

Dr. McLeod is a lipid researcher and studies how dietary fats are transported, broken down, stored and used in the body - and how different fats can either lead to, or prevent, chronic disease. He's particularly interested in obesity, type 2 diabetes and cardiovascular disease, related diseases that are skyrocketing, in spite of widespread attempts to counter the deadly trends.

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