
Description: Lipids are a broad group of naturally occurring molecules which includes fats, waxes, sterols, fat-soluble vitamins (such as vitamins A, D, E and K), monoglycerides, diglycerides, phospholipids, and others. The main biological functions of lipids include energy storage, as structural components of cell membranes, and as important signaling molecules. This volume of Methods in Cell Biology covers such areas as Membrane structure and dynamics, Imaging, and Lipid Protein Interactions. It will be an essential tool for researchers and students alike.

- Covers such areas as membrane structure and dynamics, imaging, and lipid protein interactions
- An essential tool for researchers and students alike
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Studying in vitro membrane curvature recognition by proteins and its role in vesicular trafficking
Reconstituting Multivesicular Body Biogenesis with purified components
Approaches to the study of Atg8-mediated membrane dynamics in vitro
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Visualizing mitochondrial lipids and fusion events in mammalian cells

Lipid Metabolism and Signaling:

Targeted and non-targeted analysis of membrane lipids using mass spectrometry
Modulation of host phosphoinositide metabolism during Salmonella invasion by the type III secreted effector SopB
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Regulation of phosphoinositide-metabolizing enzymes by clathrin coat proteins
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Devising powerful Genetics, Biochemical and Structural tools in the Functional Analysis of Phosphatidylinositol Transfer Proteins (PITPs) across diverse species
Genome-wide screens for gene products regulating lipid droplet dynamics.

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