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to Lipid Second Messengers (CRC Press,

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1999), Lipid-Mediating Signaling is a current and comprehensive overview of research methods used in lipid-mediated

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Book Description. As the highly anticipated update to Lipid Second Messengers (CRC Press, 1999), Lipid-Mediating Signaling is a current and comprehensive overview of research methods used in lipid-mediated signal transduction. Pioneering experts provide a much-needed distillation of a decade's worth of advances in research techniques that are pertinent in understanding how lipid-mediated ...

Lipid-Mediated Signaling - 1st Edition - Eric J. Murphy ...

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provide a much-needed distillation of a decade's worth of advances in research techniques that are pertinent in understand

Lipid-Mediated Signaling | Taylor & Francis Group

Due to their amphipathic nature, lipids are localized both on the surface and internally in membranes in the cell, and at these locations, trigger signaling pathways by interacting with soluble proteins, typically through lipid-interacting domains and motifs. More importantly, interconversion of lipid species in these compartments is fundamental, ...

Lipid-mediated Protein Signaling | SpringerLink

For example, when lipid rafts amplify G-protein signaling (i.e. lipid rafts cover ~2% of the cell membrane), increasing k_{hyd} (via RGS overexpression) and decreasing R_{tot} (via receptor blockage) intensify signal amplification, while

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decreasing k_{hyd} (via RGS inhibition) and increasing R_{tot} (via receptor overexpression) are expected to decrease the amplification ratio.

Lipid Raft-Mediated Regulation of G-Protein Coupled ...

To faithfully recapitulate the specialized and robust lipid secretion *in vivo*, mediated by the lipoproteins, we first established a floxed mouse allele of the CMRD gene *SAR1B* (Figure S1A). Hepatic *Sar1b* was inactivated by combining floxed *Sar1b* alleles with an Albumin-Cre transgene, resulting in liver-specific *Sar1b* knockout (*Sar1b* LKO).

Receptor-Mediated ER Export of Lipoproteins Controls Lipid ...

The majority of the known biological activities of oxygenated lipids (oxylipins) in plants are mediated either by jasmonate perception or through RES signaling networks.

ROS-Mediated Lipid Peroxidation

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These findings suggest that lipins activate a PKC-dependent pathway during mitotic lamin disassembly and provide evidence for a lipid-mediated mitotic signaling event. Introduction In multicellular eukaryotes, the nuclear envelope (NE) is underpinned by an intermediate filament meshwork of lamin proteins (Hetzer et al., 2005).

Mitotic lamin disassembly is triggered by lipid-mediated ...

Cationic lipid-mediated delivery is a fast, simple, and reproducible means for easily introducing DNA, RNA, siRNA, or oligonucleotides into eukaryotic cells. It allows the highly efficient transfection of a broad range of cell types, including adherent, suspension, and insect cells, as well as primary cultures.

How Cationic Lipid Mediated Transfection Works | Thermo ...

Environmental estrogen exposure converts lipid metabolism in male fish to

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a female pattern mediated by AMPK and mTOR signaling pathways Author links open overlay panel Sheng-Xiang Sun a Jun-Lin Wu a Hong-Bo Lv a Hai-Yang Zhang b Jing Zhang c Samwel Mchele Limbu a d Fang Qiao a Li-Qiao Chen a Yi Yang c e Mei-Ling Zhang a Zhen-Yu Du a

Environmental estrogen exposure converts lipid metabolism ...

Lipid-mediated Protein Signaling This book provides the most updated information of how membrane lipids mediate protein signaling from studies carried out in animal and plant cells. Features 7 Summarizes innovative research in lipid-mediated signaling 7 Presents contributions from internationally recognized scientists 7 Offers a

Lipid-mediated Protein Organ Regeneration Signaling ...

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Description: 1 online resource (xx, 424 pages) : illustrations (some color).

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Contents: Methods for measuring the activity and expression of phospholipases A2 / by Prerna Rastogi, Janhavi Sharma, and Jane McHowat --Methods for measuring the activity and expression of phospholipase C / by Ryan A. Frieler, John A. Watt, and Thad A. Rosenberger --Methods for measuring the ...

Lipid-mediated signaling (eBook, 2010) [WorldCat.org]

Lipid raft-mediated Akt signaling as a therapeutic target in mantle cell lymphoma. ... (DiOC 6 (3) low)] was measured as described in Materials and methods after 6-h incubation.

Lipid raft-mediated Akt signaling as a therapeutic target ...

Caveolin, an adaptor protein found in a specialized subset of lipid rafts, has been reported to promote the localization of membrane proteins to lipid rafts. In the present study, we investigated the role of lipid rafts on the

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mGlu1 α receptor-mediated Ca²⁺ signaling in association with caveolin in hippocampal primary neurons and HEK293 cells.

Lipid rafts serve as signaling platforms for mGlu1 ...

Lipid rafts are important in organizing signal transduction cascades [1,2,6,7,8,9,12,15,16,65,66]. D 1 R partitions to lipid as well as non-lipid rafts in human renal proximal tubule cells expressing wild-type GRK4 [67,68,69,70] and interacts with the lipid raft protein Cav1 [67,68,71,72,73,74,75] in renal proximal

Lipid Rafts and Dopamine Receptor Signaling

Lipid rafts are believed to serve as platforms for receptor-mediated signal transduction by selectively localizing certain proteins while excluding others, and have been isolated using density gradients by taking advantage of their relatively lower density and resistance to

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solubilization at low temperature by non-ionic detergents [15, 17, 18].

Lipid rafts are required in Gαi signaling downstream of ...

Endocannabinoids also up-regulate the expression of key genes involved in lipid synthesis (e.g., PPAR transcription factors and some of their target genes). These actions are selectively mediated by CB2-coupled signaling involving the MAPK pathway, as revealed by specific agonists/antagonists and by RNA interference.

Endocannabinoids enhance lipid synthesis and apoptosis of ...

The Regulation of Lipid Deposition by Insulin in Goose Liver Cells Is Mediated by the PI3K-AKT-mTOR Signaling Pathway PLoS One . 2015 May 6;10(5):e0098759. doi: 10.1371/journal.pone.0098759.

The Regulation of Lipid Deposition by Insulin in Goose ...

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The method allows to capture transient signals which are intrinsic to signal transduction. Here, the authors describe how photo-caging can be applied to investigate lipid-mediated signaling pathways and showcase a new uncaging system that can specifically deliver caged lipids into the mitochondria.

Organelle-specific photo-uncaging to control lipid signaling

Recent studies have suggested a crucial role for the PI3K-Akt-mTOR pathway in regulating lipid metabolism; therefore, we hypothesized that insulin affects goose hepatocellular lipid metabolism through the PI3K-Akt-mTOR signaling pathway. Methods Goose primary hepatocytes were isolated and treated with serum-free media supplemented with PI3K-Akt-mTOR pathway inhibitors (LY294002, rapamycin, and NVP-BEZ235, respectively) and 50 or 150 nmol/L insulin.

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