1. Record Nr. UNINA9910808700503321 Lysophospholipid receptors: signaling and biochemistry / / edited by **Titolo** Jerold Chun ... [et al.] Pubbl/distr/stampa Hoboken, N.J., : Wiley, c2013 **ISBN** 1-118-53142-6 1-118-53135-3 Edizione [1st ed.] Descrizione fisica 1 online resource (813 p.) Altri autori (Persone) ChunJerold <1959-> Disciplina 571.7/4 Cell receptors - Physiology Soggetti Cell receptors - Metabolism Cellular signal transduction - Physiology Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Cover; Title page; Copyright page; Contents; Preface; Contributors; CHAPTER 1: Lysophosphatidic Acid (LPA) Receptor Signaling; 1.1. Introduction; 1.2. LPA Metabolism; 1.3. Autotaxin; 1.4. LPA Receptors; 1.4.1. LPA1; 1.4.2. LPA2; 1.4.3. LPA3; 1.4.4. LPA4; 1.4.5. LPA5; 1.4.6. LPA6; 1.5. LPA Receptor Agonists and Antagonists; References; CHAPTER 2: Sphingosine 1-Phosphate (S1P) Receptors; 2.1. Introduction; 2.2. S1P Metabolism/Enzyme, and Transport; 2.2.1. S1P Metabolism and Enzymes; 2.2.2. Sphingosine Kinases; 2.2.3. S1P Phosphatases and S1P Lyase 2.3. S1P Receptor Subtypes, and Physiological Functions 2.3.1. S1P1; 2.3.2. S1P2; 2.3.3. S1P3; 2.3.4. S1P4; 2.3.5. S1P5; 2.4. Concluding Remarks; References; CHAPTER 3: Global Gene Expression Program of Lysophosphatidic Acid (LPA)-Stimulated Fibroblasts; 3.1. Introduction; 3.2. The Global Transcriptional Response of MEFs to LPA; 3.3. Upregulated Genes; 3.4. Downregulated Genes; 3.5. Induction of Genes that Encode Secreted Factors; 3.6. Overlap between the Expression Profiles of LPA and EGF; 3.7. Conclusions; Acknowledgments; References CHAPTER 4: Identification of Direct Intracellular Targets of Sphingosine 1-Phosphate (S1P)4.1. Introduction; 4.2. Intracellular Targets for S1P;

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Sommario/riassunto

"This state-of-the-art reference addresses lysophospholipids, a special kind of fat that has been found to have a growing number of receptors within the cell and that has important, natural roles in the body, being essential for normal reproduction, development, maturation and life. This book covers the biochemistry, interactions, and signaling of lysophospholipids as well as its potential for producing new therapies for a range of medically important human diseases. Bringing together current knowledge in lysophospholipid signaling, this represents a must-have book for all academic, industrial, and medical school and hospital libraries"--Provided by publisher.