Richard Lehner

List of Publications by Year
in descending order

83 papers	4,816 citations	81743 39 h-index	95083 68 g-index
86 all docs	86 docs citations	86 times ranked	6062 citing authors

#	Article	IF	Citations
1	Acyl-CoA:diacylglycerol acyltransferase: Molecular biology, biochemistry and biotechnology. Progress in Lipid Research, 2012, 51, 350-377.	5.3	288
2	Biosynthesis of triacylglycerols. Progress in Lipid Research, 1996, 35, 169-201.	5.3	275
3	Carboxylesterases in lipid metabolism: from mouse to human. Protein and Cell, 2018, 9, 178-195.	4.8	182
4	Obesity-induced lysine acetylation increases cardiac fatty acid oxidation and impairs insulin signalling. Cardiovascular Research, 2014, 103, 485-497.	1.8	175
5	Subcutaneous adiposity is an independent predictor of mortality in cancer patients. British Journal of Cancer, 2017, 117, 148-155.	2.9	167
6	Techniques to measure lipase and esterase activity in vitro. Methods, 2005, 36, 139-147.	1.9	162
7	Loss of TGH/Ces3 in Mice Decreases Blood Lipids, Improves Glucose Tolerance, and Increases Energy Expenditure. Cell Metabolism, 2010, 11, 183-193.	7.2	152
8	Recommended nomenclature for five mammalian carboxylesterase gene families: human, mouse, and rat genes and proteins. Mammalian Genome, 2010, 21, 427-441.	1.0	147
9	Carboxylesterase 3 (EC 3.1.1.1) Is a Major Adipocyte Lipase. Journal of Biological Chemistry, 2004, 279, 40683-40689.	1.6	133
10	Regulation of the enzymes of hepatic microsomal triacylglycerol lipolysis and re-esterification by the glucocorticoid dexamethasone. Biochemical Journal, 2004, 378, 967-974.	1.7	118
11	Cloning and expression of a cDNA encoding a hepatic microsomal lipase that mobilizes stored triacylglycerol. Biochemical Journal, 1999, 343, 1-10.	1.7	117
12	Deficiency of carboxylesterase 1/esterase-x results in obesity, hepatic steatosis, and hyperlipidemia. Hepatology, 2012, 56, 2188-2198.	3.6	117
13	Purification and Characterization of a Porcine Liver Microsomal Triacylglycerol Hydrolaseâ€. Biochemistry, 1997, 36, 1861-1868.	1.2	114
14	Inhibitors of hepatic microsomal triacylglycerol hydrolase decrease very low density lipoprotein secretion. FASEB Journal, 2003, 17, 1685-1687.	0.2	106
15	Altered Lipid Droplet Dynamics in Hepatocytes Lacking Triacylglycerol Hydrolase Expression. Molecular Biology of the Cell, 2010, 21, 1991-2000.	0.9	85
16	Subcellullar localization, developmental expression and characterization of a liver triacylglycerol hydrolase. Biochemical Journal, 1999, 338, 761-768.	1.7	84
17	Shedding light on the enigma of myocardial lipotoxicity: the involvement of known and putative regulators of fatty acid storage and mobilization. American Journal of Physiology - Endocrinology and Metabolism, 2010, 298, E897-E908.	1.8	83
18	Exploiting the mevalonate pathway to distinguish statin-sensitive multiple myeloma. Blood, 2010, 115, 4787-4797.	0.6	81

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19	Tumor-Induced Hyperlipidemia Contributes to Tumor Growth. Cell Reports, 2016, 15, 336-348.	2.9	80
20	ABCA1-dependent lipid efflux to apolipoprotein A-I mediates HDL particle formation and decreases VLDL secretion from murine hepatocytes. Journal of Lipid Research, 2004, 45, 1122-1131.	2.0	78
21	The cloning and expression of a murine triacylglycerol hydrolase cDNA and the structure of its corresponding gene. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2001, 1532, 162-172.	1.2	76
22	Mitochondria-rough-ER contacts in the liver regulate systemic lipid homeostasis. Cell Reports, 2021, 34, 108873.	2.9	76
23	Proteomic and Lipid Characterization of Apolipoprotein B-free Luminal Lipid Droplets from Mouse Liver Microsomes. Journal of Biological Chemistry, 2007, 282, 33218-33226.	1.6	75
24	Triacylglycerol Hydrolase Is Localized to the Endoplasmic Reticulum by an Unusual Retrieval Sequence where It Participates in VLDL Assembly without Utilizing VLDL Lipids as Substrates. Molecular Biology of the Cell, 2005, 16, 984-996.	0.9	74
25	Lumenal Lipid Metabolism. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1087-1093.	1.1	70
26	Liver triacylglycerol lipases. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 762-769.	1.2	66
27	Glucocorticoids and cyclic AMP selectively increase hepatic lipin-1 expression, and insulin acts antagonistically. Journal of Lipid Research, 2008, 49, 1056-1067.	2.0	64
28	Diets enriched in trans-11 vaccenic acid alleviate ectopic lipid accumulation in a rat model of NAFLD and metabolic syndrome. Journal of Nutritional Biochemistry, 2014, 25, 692-701.	1.9	62
29	Roles of Acyl-CoA:Diacylglycerol Acyltransferases 1 and 2 in Triacylglycerol Synthesis and Secretion in Primary Hepatocytes. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1080-1091.	1.1	59
30	Triacylglycerol Synthesis by Purified Triacylglycerol Synthetase of Rat Intestinal Mucosa.. Journal of Biological Chemistry, 1995, 270, 13630-13636.	1.6	58
31	Liver specific inactivation of carboxylesterase 3/triacylglycerol hydrolase decreases blood lipids without causing severe steatosis in mice. Hepatology, 2012, 56, 2154-2162.	3.6	58
32	Pharmacological intervention of liver triacylglycerol lipolysis: The good, the bad and the ugly. Biochemical Pharmacology, 2018, 155, 233-241.	2.0	58
33	Oxidative Stress Attenuates Lipid Synthesis and Increases Mitochondrial Fatty Acid Oxidation in Hepatoma Cells Infected with Hepatitis C Virus. Journal of Biological Chemistry, 2016, 291, 1974-1990.	1.6	57
34	Identifying molecular features that distinguish fluvastatin-sensitive breast tumor cells. Breast Cancer Research and Treatment, 2014, 143, 301-312.	1.1	52
35	Attenuation of Adipocyte Triacylglycerol Hydrolase Activity Decreases Basal Fatty Acid Efflux. Journal of Biological Chemistry, 2007, 282, 8027-8035.	1.6	49
36	Apolipoprotein B and triacylglycerol secretion in human triacylglycerol hydrolase transgenic mice. Journal of Lipid Research, 2007, 48, 2597-2606.	2.0	49

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37	Role of endoplasmic reticulum neutral lipid hydrolases. Trends in Endocrinology and Metabolism, 2011, 22, 218-225.	3.1	48
38	Cloning and expression of a cDNA encoding a hepatic microsomal lipase that mobilizes stored triacylglycerol. Biochemical Journal, 1999, 343, 1.	1.7	47
39	Stereospecificity of monoacylglycerol and diacylglycerol acyltransferases from rat intestine as determined by chiral phase high-performance liquid chromatography. Lipids, 1993, 28, 29-34.	0.7	44
40	Heterologous Expression, Purification, and Characterization of Human Triacylglycerol Hydrolase. Protein Expression and Purification, 2002, 24, 33-42.	0.6	39
41	Membrane Topography of Human Phosphatidylethanolamine N-Methyltransferase. Journal of Biological Chemistry, 2003, 278, 2956-2962.	1.6	39
42	Arylacetamide deacetylase attenuates fatty-acid-induced triacylglycerol accumulation in rat hepatoma cells. Journal of Lipid Research, 2010, 51, 368-377.	2.0	38
43	Regulation of Hepatic Triacylglycerol Metabolism by CGI-58 Does Not Require ATGL Co-activation. Cell Reports, 2016, 16, 939-949.	2.9	36
44	Structureâ^'Function Analysis of Human Triacylglycerol Hydrolase by Site-Directed Mutagenesis:Â Identification of the Catalytic Triad and a Glycosylation Siteâ€. Biochemistry, 2002, 41, 6679-6687.	1.2	35
45	Es-x/Ces1 prevents triacylglycerol accumulation in McArdle-RH7777 hepatocytes. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2009, 1791, 1133-1143.	1.2	34
46	Conversion of Low Density Lipoprotein-associated Phosphatidylcholine to Triacylglycerol by Primary Hepatocytes. Journal of Biological Chemistry, 2008, 283, 6449-6458.	1.6	33
47	Ces3/TGH Deficiency Attenuates Steatohepatitis. Scientific Reports, 2016, 6, 25747.	1.6	33
48	Fasting and refeeding induces changes in the mouse hepatic lipid droplet proteome. Journal of Proteomics, 2018, 181, 213-224.	1.2	33
49	Carboxylesterase1/Esterase-x Regulates Chylomicron Production in Mice. PLoS ONE, 2012, 7, e49515.	1.1	33
50	Regulation of triacylglycerol hydrolase expression by dietary fatty acids and peroxisomal proliferator-activated receptors. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2003, 1635, 20-28.	1.2	32
51	Pioglitazone attenuates hepatic inflammation and fibrosis in phosphatidylethanolamineN-methyltransferase-deficient mice. American Journal of Physiology - Renal Physiology, 2016, 310, G526-G538.	1.6	32
52	Matrix Metalloproteinaseâ€2 Negatively Regulates Cardiac Secreted Phospholipase A ₂ to Modulate Inflammation and Fever. Journal of the American Heart Association, 2015, 4, .	1.6	31
53	Ces3/TGH Deficiency Improves Dyslipidemia and Reduces Atherosclerosis in Ldlr ^{â^'/â^'} Mice. Circulation Research, 2012, 111, 982-990.	2.0	30
54	Loss of Calreticulin Uncovers a Critical Role for Calcium in Regulating Cellular Lipid Homeostasis. Scientific Reports, 2017, 7, 5941.	1.6	30

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55	Arylacetamide deacetylase: A novel host factor with important roles in the lipolysis of cellular triacylglycerol stores, VLDL assembly and HCV production. Journal of Hepatology, 2013, 59, 336-343.	1.8	29
56	Identification of a Novel Heartâ€“Liver Axis: Matrix Metalloproteinaseâ€2 Negatively Regulates Cardiac Secreted Phospholipase A ₂ to Modulate Lipid Metabolism and Inflammation in the Liver. Journal of the American Heart Association, 2015, 4, .	1.6	29
57	Subcellullar localization, developmental expression and characterization of a liver triacylglycerol hydrolase. Biochemical Journal, 1999, 338, 761.	1.7	27
58	Analysis of Lipid Droplets in Hepatocytes. Methods in Cell Biology, 2013, 116, 107-127.	0.5	27
59	Absence of Tissue Inhibitor of Metalloproteinase-4 (TIMP4) ameliorates high fat diet-induced obesity in mice due to defective lipid absorption. Scientific Reports, 2017, 7, 6210.	1.6	27
60	Utilization of 2-monoacylglycerols for phosphatidylcholine biosynthesis in the intestine. Lipids and Lipid Metabolism, 1992, 1125, 171-179.	2.6	26
61	Enhanced Membrane Fusion in Sterol-enriched Vacuoles Bypasses the Vrp1p Requirement. Molecular Biology of the Cell, 2004, 15, 4609-4621.	0.9	24
62	The Physiological Role of Triacylglycerol Hydrolase in Lipid Metabolism. Reviews in Endocrine and Metabolic Disorders, 2004, 5, 303-309.	2.6	22
63	Calmodulin antagonist W-7 inhibits de novo synthesis of cholesterol and suppresses secretion of de novo synthesized and preformed lipids from cultured hepatocytes. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2004, 1682, 92-101.	1.2	21
64	Mutation of F417 but not of L418 or L420 in the lipid binding domain decreases the activity of triacylglycerol hydrolase. Journal of Lipid Research, 2006, 47, 375-383.	2.0	19
65	Genetic variation in human carboxylesterase CES1 confers resistance to hepatic steatosis. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 688-699.	1.2	19
66	Chemotherapy diminishes lipid storage capacity of adipose tissue in a preclinical model of colon cancer. Lipids in Health and Disease, 2017, 16, 247.	1.2	18
67	Liver-specific expression of carboxylesterase 1g/esterase-x reduces hepatic steatosis, counteracts dyslipidemia and improves insulin signaling. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 482-490.	1.2	17
68	A Role for Sp1 in the Transcriptional Regulation of Hepatic Triacylglycerol Hydrolase in the Mouse. Journal of Biological Chemistry, 2001, 276, 25621-25630.	1.6	16
69	C/EBPÎ± activates the transcription of triacylglycerol hydrolase in 3T3-L1 adipocytes. Biochemical Journal, 2005, 388, 959-966.	1.7	16
70	Ces1d deficiency protects against high-sucrose diet-induced hepatic triacylglycerol accumulation. Journal of Lipid Research, 2019, 60, 880-891.	2.0	16
71	Fatty Acid Handling in Mammalian Cells. , 2016, , 149-184.		13
72	Endoplasmic reticulum-localized hepatic lipase decreases triacylglycerol storage and VLDL secretion. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 1113-1123.	1.2	12

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73	Adipose tissueâ€“specific ablation of Ces1d causes metabolic dysregulation in mice. Life Science Alliance, 2022, 5, e202101209.	1.3	12
74	Insulin, glucagon and fatty acid treatment of hepatocytes does not result in phosphorylation or changes in activity of triacylglycerol hydrolase. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2005, 1736, 189-199.	1.2	7
75	Carboxylesterase 1d (Ces1d) does not contribute to cholesteryl ester hydrolysis in the liver. Journal of Lipid Research, 2021, 62, 100093.	2.0	7
76	Effects of Chlorpyrifos on Serine Hydrolase Activities, Lipid Mediators, and Immune Responses in Lungs of Neonatal and Adult Mice. Chemical Research in Toxicology, 2021, 34, 1556-1571.	1.7	6
77	Intestinal Synthesis of Triacylglycerols. , 2001, , 185-213.		6
78	Fatty acid handling in mammalian cells. , 2021, , 161-200.		3
79	Provision of Lipids for Very Low-Density Lipoprotein Assembly. , 2006, , 121-149.		1
80	De novo phosphatidylcholine synthesis in the small intestinal epithelium is required for normal dietary lipid handling and maintenance of the mucosal barrier. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2022, 1867, 159109.	1.2	1
81	Attenuation of obesity-induced hyperlipidemia reduces tumor growth. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2022, 1867, 159124.	1.2	1
82	Role of Triacylglycerol Hydrolase and Apolipoprotein E in Hepatic Lipid Droplet Metabolism. FASEB Journal, 2008, 22, 807.9.	0.2	0
83	Downregulation of stearoylâ€CoA desaturase in Huntington's disease. FASEB Journal, 2008, 22, 707.20.	0.2	0