

# Richard Lehner

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81

papers

3,826

citations

36

h-index

60

g-index

86

ext. papers

4,369

ext. citations

5.8

avg, IF

5.34

L-index

#	Paper	IF	Citations
81	Biosynthesis of triacylglycerols. <i>Progress in Lipid Research</i> , <b>1996</b> , 35, 169-201	14.3	246
80	Acyl-CoA:diacylglycerol acyltransferase: molecular biology, biochemistry and biotechnology. <i>Progress in Lipid Research</i> , <b>2012</b> , 51, 350-77	14.3	222
79	Obesity-induced lysine acetylation increases cardiac fatty acid oxidation and impairs insulin signalling. <i>Cardiovascular Research</i> , <b>2014</b> , 103, 485-97	9.9	132
78	Loss of TGH/Ces3 in mice decreases blood lipids, improves glucose tolerance, and increases energy expenditure. <i>Cell Metabolism</i> , <b>2010</b> , 11, 183-93	24.6	130
77	Techniques to measure lipase and esterase activity in vitro. <i>Methods</i> , <b>2005</b> , 36, 139-47	4.6	125
76	Recommended nomenclature for five mammalian carboxylesterase gene families: human, mouse, and rat genes and proteins. <i>Mammalian Genome</i> , <b>2010</b> , 21, 427-41	3.2	123
75	Carboxylesterase 3 (EC 3.1.1.1) is a major adipocyte lipase. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 40683-9	5.4	122
74	Cloning and expression of a cDNA encoding a hepatic microsomal lipase that mobilizes stored triacylglycerol. <i>Biochemical Journal</i> , <b>1999</b> , 343, 1-10	3.8	110
73	Subcutaneous adiposity is an independent predictor of mortality in cancer patients. <i>British Journal of Cancer</i> , <b>2017</b> , 117, 148-155	8.7	107
72	Carboxylesterases in lipid metabolism: from mouse to human. <i>Protein and Cell</i> , <b>2018</b> , 9, 178-195	7.2	106
71	Purification and characterization of a porcine liver microsomal triacylglycerol hydrolase. <i>Biochemistry</i> , <b>1997</b> , 36, 1861-8	3.2	106
70	Regulation of the enzymes of hepatic microsomal triacylglycerol lipolysis and re-esterification by the glucocorticoid dexamethasone. <i>Biochemical Journal</i> , <b>2004</b> , 378, 967-74	3.8	105
69	Deficiency of carboxylesterase 1/esterase-x results in obesity, hepatic steatosis, and hyperlipidemia. <i>Hepatology</i> , <b>2012</b> , 56, 2188-98	11.2	95
68	Inhibitors of hepatic microsomal triacylglycerol hydrolase decrease very low density lipoprotein secretion. <i>FASEB Journal</i> , <b>2003</b> , 17, 1685-7	0.9	95
67	Subcellular localization, developmental expression and characterization of a liver triacylglycerol hydrolase. <i>Biochemical Journal</i> , <b>1999</b> , 338, 761-768	3.8	81
66	Shedding light on the enigma of myocardial lipotoxicity: the involvement of known and putative regulators of fatty acid storage and mobilization. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2010</b> , 298, E897-908	6	77
65	ABCA1-dependent lipid efflux to apolipoprotein A-I mediates HDL particle formation and decreases VLDL secretion from murine hepatocytes. <i>Journal of Lipid Research</i> , <b>2004</b> , 45, 1122-31	6.3	73

64	Exploiting the mevalonate pathway to distinguish statin-sensitive multiple myeloma. <i>Blood</i> , <b>2010</b> , 115, 4787-97	2.2	71
63	The cloning and expression of a murine triacylglycerol hydrolase cDNA and the structure of its corresponding gene. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2001</b> , 1532, 162-72	5.2	70
62	Altered lipid droplet dynamics in hepatocytes lacking triacylglycerol hydrolase expression. <i>Molecular Biology of the Cell</i> , <b>2010</b> , 21, 1991-2000	3.5	69
61	Proteomic and lipid characterization of apolipoprotein B-free luminal lipid droplets from mouse liver microsomes: implications for very low density lipoprotein assembly. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 33218-26	5.4	65
60	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. <i>Molecular Biology of the Cell</i> , <b>2005</b> , 16, 984-96	3.5	63
59	Glucocorticoids and cyclic AMP selectively increase hepatic lipin-1 expression, and insulin acts antagonistically. <i>Journal of Lipid Research</i> , <b>2008</b> , 49, 1056-67	6.3	54
58	Luminal lipid metabolism: implications for lipoprotein assembly. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2012</b> , 32, 1087-93	9.4	51
57	Tumor-Induced Hyperlipidemia Contributes to Tumor Growth. <i>Cell Reports</i> , <b>2016</b> , 15, 336-48	10.6	51
56	Diets enriched in trans-11 vaccenic acid alleviate ectopic lipid accumulation in a rat model of NAFLD and metabolic syndrome. <i>Journal of Nutritional Biochemistry</i> , <b>2014</b> , 25, 692-701	6.3	50
55	Liver triacylglycerol lipases. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2012</b> , 1821, 762-9	5	50
54	Liver specific inactivation of carboxylesterase 3/triacylglycerol hydrolase decreases blood lipids without causing severe steatosis in mice. <i>Hepatology</i> , <b>2012</b> , 56, 2154-62	11.2	47
53	Role of endoplasmic reticulum neutral lipid hydrolases. <i>Trends in Endocrinology and Metabolism</i> , <b>2011</b> , 22, 218-25	8.8	47
52	Triacylglycerol synthesis by purified triacylglycerol synthetase of rat intestinal mucosa. Role of acyl-CoA acyltransferase. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 13630-6	5.4	47
51	Cloning and expression of a cDNA encoding a hepatic microsomal lipase that mobilizes stored triacylglycerol. <i>Biochemical Journal</i> , <b>1999</b> , 343, 1	3.8	44
50	Identifying molecular features that distinguish fluvastatin-sensitive breast tumor cells. <i>Breast Cancer Research and Treatment</i> , <b>2014</b> , 143, 301-12	4.4	43
49	Attenuation of adipocyte triacylglycerol hydrolase activity decreases basal fatty acid efflux. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 8027-35	5.4	43
48	Apolipoprotein B and triacylglycerol secretion in human triacylglycerol hydrolase transgenic mice. <i>Journal of Lipid Research</i> , <b>2007</b> , 48, 2597-606	6.3	43
47	Roles of Acyl-CoA:Diacylglycerol Acyltransferases 1 and 2 in Triacylglycerol Synthesis and Secretion in Primary Hepatocytes. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2015</b> , 35, 1080-91	9.4	42

46	Stereospecificity of monoacylglycerol and diacylglycerol acyltransferases from rat intestine as determined by chiral phase high-performance liquid chromatography. <i>Lipids</i> , <b>1993</b> , 28, 29-34	1.6	37
45	Pharmacological intervention of liver triacylglycerol lipolysis: The good, the bad and the ugly. <i>Biochemical Pharmacology</i> , <b>2018</b> , 155, 233-241	6	34
44	Membrane topography of human phosphatidylethanolamine N-methyltransferase. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 2956-62	5.4	34
43	Oxidative Stress Attenuates Lipid Synthesis and Increases Mitochondrial Fatty Acid Oxidation in Hepatoma Cells Infected with Hepatitis C Virus. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 1974-1990	5.4	33
42	Es-x/Ces1 prevents triacylglycerol accumulation in McArdle-RH7777 hepatocytes. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2009</b> , 1791, 1133-43	5	33
41	Structure-function analysis of human triacylglycerol hydrolase by site-directed mutagenesis: identification of the catalytic triad and a glycosylation site. <i>Biochemistry</i> , <b>2002</b> , 41, 6679-87	3.2	32
40	Heterologous expression, purification, and characterization of human triacylglycerol hydrolase. <i>Protein Expression and Purification</i> , <b>2002</b> , 24, 33-42	2	31
39	Arylacetamide deacetylase attenuates fatty-acid-induced triacylglycerol accumulation in rat hepatoma cells. <i>Journal of Lipid Research</i> , <b>2010</b> , 51, 368-77	6.3	30
38	Regulation of Hepatic Triacylglycerol Metabolism by CGI-58 Does Not Require ATGL Co-activation. <i>Cell Reports</i> , <b>2016</b> , 16, 939-949	10.6	29
37	Conversion of low density lipoprotein-associated phosphatidylcholine to triacylglycerol by primary hepatocytes. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 6449-58	5.4	26
36	Regulation of triacylglycerol hydrolase expression by dietary fatty acids and peroxisomal proliferator-activated receptors. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2003</b> , 1635, 20-8	5	26
35	Carboxylesterase1/Esterase-x regulates chylomicron production in mice. <i>PLoS ONE</i> , <b>2012</b> , 7, e49515	3.7	26
34	Arylacetamide deacetylase: a novel host factor with important roles in the lipolysis of cellular triacylglycerol stores, VLDL assembly and HCV production. <i>Journal of Hepatology</i> , <b>2013</b> , 59, 336-43	13.4	24
33	Ces3/TGH Deficiency Attenuates Steatohepatitis. <i>Scientific Reports</i> , <b>2016</b> , 6, 25747	4.9	24
32	Matrix metalloproteinase-2 negatively regulates cardiac secreted phospholipase A2 to modulate inflammation and fever. <i>Journal of the American Heart Association</i> , <b>2015</b> , 4,	6	23
31	Subcellular localization, developmental expression and characterization of a liver triacylglycerol hydrolase. <i>Biochemical Journal</i> , <b>1999</b> , 338, 761	3.8	23
30	Utilization of 2-monoacylglycerols for phosphatidylcholine biosynthesis in the intestine. <i>Lipids and Lipid Metabolism</i> , <b>1992</b> , 1125, 171-9		23
29	Ces3/TGH deficiency improves dyslipidemia and reduces atherosclerosis in Ldlr(-/-) mice. <i>Circulation Research</i> , <b>2012</b> , 111, 982-90	15.7	22

28	Enhanced membrane fusion in sterol-enriched vacuoles bypasses the Vrp1p requirement. <i>Molecular Biology of the Cell</i> , <b>2004</b> , 15, 4609-21	3.5	22
27	Fasting and refeeding induces changes in the mouse hepatic lipid droplet proteome. <i>Journal of Proteomics</i> , <b>2018</b> , 181, 213-224	3.9	21
26	Analysis of lipid droplets in hepatocytes. <i>Methods in Cell Biology</i> , <b>2013</b> , 116, 107-27	1.8	21
25	Mitochondria-rough-ER contacts in the liver regulate systemic lipid homeostasis. <i>Cell Reports</i> , <b>2021</b> , 34, 108873	10.6	21
24	Loss of Calreticulin Uncovers a Critical Role for Calcium in Regulating Cellular Lipid Homeostasis. <i>Scientific Reports</i> , <b>2017</b> , 7, 5941	4.9	20
23	Pioglitazone attenuates hepatic inflammation and fibrosis in phosphatidylethanolamine N-methyltransferase-deficient mice. <i>American Journal of Physiology - Renal Physiology</i> , <b>2016</b> , 310, G526-38 <sup>1</sup>	5.1	20
22	Identification of a Novel Heart-Liver Axis: Matrix Metalloproteinase-2 Negatively Regulates Cardiac Secreted Phospholipase A2 to Modulate Lipid Metabolism and Inflammation in the Liver. <i>Journal of the American Heart Association</i> , <b>2015</b> , 4,	6	19
21	The physiological role of triacylglycerol hydrolase in lipid metabolism. <i>Reviews in Endocrine and Metabolic Disorders</i> , <b>2004</b> , 5, 303-9	10.5	18
20	Calmodulin antagonist W-7 inhibits de novo synthesis of cholesterol and suppresses secretion of de novo synthesized and preformed lipids from cultured hepatocytes. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2004</b> , 1682, 92-101	5	16
19	Absence of Tissue Inhibitor of Metalloproteinase-4 (TIMP4) ameliorates high fat diet-induced obesity in mice due to defective lipid absorption. <i>Scientific Reports</i> , <b>2017</b> , 7, 6210	4.9	15
18	Mutation of F417 but not of L418 or L420 in the lipid binding domain decreases the activity of triacylglycerol hydrolase. <i>Journal of Lipid Research</i> , <b>2006</b> , 47, 375-83	6.3	15
17	C/EBPalpha activates the transcription of triacylglycerol hydrolase in 3T3-L1 adipocytes. <i>Biochemical Journal</i> , <b>2005</b> , 388, 959-66	3.8	14
16	Liver-specific expression of carboxylesterase 1g/esterase-x reduces hepatic steatosis, counteracts dyslipidemia and improves insulin signaling. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2016</b> , 1861, 482-90	5	14
15	A role for Sp1 in the transcriptional regulation of hepatic triacylglycerol hydrolase in the mouse. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 25621-30	5.4	13
14	Chemotherapy diminishes lipid storage capacity of adipose tissue in a preclinical model of colon cancer. <i>Lipids in Health and Disease</i> , <b>2017</b> , 16, 247	4.4	11
13	Endoplasmic reticulum-localized hepatic lipase decreases triacylglycerol storage and VLDL secretion. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2013</b> , 1831, 1113-23	5	11
12	Genetic variation in human carboxylesterase CES1 confers resistance to hepatic steatosis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2018</b> , 1863, 688-699	5	10
11	Fatty Acid Handling in Mammalian Cells <b>2016</b> , 149-184		10

10	Insulin, glucagon and fatty acid treatment of hepatocytes does not result in phosphorylation or changes in activity of triacylglycerol hydrolase. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2005</b> , 1736, 189-99	5	7
9	Ces1d deficiency protects against high-sucrose diet-induced hepatic triacylglycerol accumulation. <i>Journal of Lipid Research</i> , <b>2019</b> , 60, 880-891	6.3	5
8	Intestinal Synthesis of Triacylglycerols <b>2001</b> , 185-213		5
7	Attenuation of obesity-induced hyperlipidemia reduces tumor growth.. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2022</b> , 1867, 159124	5	1
6	Carboxylesterase 1d (Ces1d) does not contribute to cholesteryl ester hydrolysis in the liver. <i>Journal of Lipid Research</i> , <b>2021</b> , 62, 100093	6.3	1
5	Effects of Chlorpyrifos on Serine Hydrolase Activities, Lipid Mediators, and Immune Responses in Lungs of Neonatal and Adult Mice. <i>Chemical Research in Toxicology</i> , <b>2021</b> , 34, 1556-1571	4	0
4	Fatty acid handling in mammalian cells <b>2021</b> , 161-200		0
3	De novo phosphatidylcholine synthesis in the small intestinal epithelium is required for normal dietary lipid handling and maintenance of the mucosal barrier.. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2022</b> , 1867, 159109	5	
2	Role of Triacylglycerol Hydrolase and Apolipoprotein E in Hepatic Lipid Droplet Metabolism. <i>FASEB Journal</i> , <b>2008</b> , 22, 807.9	0.9	
1	Downregulation of stearoyl-CoA desaturase in Huntington's disease. <i>FASEB Journal</i> , <b>2008</b> , 22, 707.20	0.9	