

Rudolf Zechner

List of Publications by Year in descending order

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117
papers

18,183
citations

19657

61
h-index

19749

117
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all docs

117
docs citations

117
times ranked

17080
citing authors

#	ARTICLE	IF	CITATIONS
1	Fat Mobilization in Adipose Tissue Is Promoted by Adipose Triglyceride Lipase. <i>Science</i> , 2004, 306, 1383-1386.	12.6	1,744
2	Defective Lipolysis and Altered Energy Metabolism in Mice Lacking Adipose Triglyceride Lipase. <i>Science</i> , 2006, 312, 734-737.	12.6	1,135
3	FAT SIGNALS - Lipases and Lipolysis in Lipid Metabolism and Signaling. <i>Cell Metabolism</i> , 2012, 15, 279-291.	16.2	852
4	Adipose triglyceride lipase-mediated lipolysis of cellular fat stores is activated by CGI-58 and defective in Chanarin-Dorfman Syndrome. <i>Cell Metabolism</i> , 2006, 3, 309-319.	16.2	766
5	ATGL-mediated fat catabolism regulates cardiac mitochondrial function via PPAR- α and PGC-1. <i>Nature Medicine</i> , 2011, 17, 1076-1085.	30.7	612
6	Weight loss and lipolysis promote a dynamic immune response in murine adipose tissue. <i>Journal of Clinical Investigation</i> , 2010, 120, 3466-3479.	8.2	580
7	Adipose Triglyceride Lipase and Hormone-sensitive Lipase Are the Major Enzymes in Adipose Tissue Triacylglycerol Catabolism. <i>Journal of Biological Chemistry</i> , 2006, 281, 40236-40241.	3.4	562
8	A Switch from White to Brown Fat Increases Energy Expenditure in Cancer-Associated Cachexia. <i>Cell Metabolism</i> , 2014, 20, 433-447.	16.2	535
9	Lipolysis – A highly regulated multi-enzyme complex mediates the catabolism of cellular fat stores. <i>Progress in Lipid Research</i> , 2011, 50, 14-27.	11.6	519
10	Hormone-sensitive Lipase Deficiency in Mice Causes Diglyceride Accumulation in Adipose Tissue, Muscle, and Testis. <i>Journal of Biological Chemistry</i> , 2002, 277, 4806-4815.	3.4	512
11	Adipose Triglyceride Lipase Contributes to Cancer-Associated Cachexia. <i>Science</i> , 2011, 333, 233-238.	12.6	475
12	Adipose triglyceride lipase and the lipolytic catabolism of cellular fat stores. <i>Journal of Lipid Research</i> , 2009, 50, 3-21.	4.2	449
13	Cytosolic lipolysis and lipophagy: two sides of the same coin. <i>Nature Reviews Molecular Cell Biology</i> , 2017, 18, 671-684.	37.0	348
14	Biochemistry and pathophysiology of intravascular and intracellular lipolysis. <i>Genes and Development</i> , 2013, 27, 459-484.	5.9	277
15	Mammalian patatin domain containing proteins: a family with diverse lipolytic activities involved in multiple biological functions. <i>Journal of Lipid Research</i> , 2009, 50, S63-S68.	4.2	275
16	Obese Yeast: Triglyceride Lipolysis Is Functionally Conserved from Mammals to Yeast. <i>Journal of Biological Chemistry</i> , 2006, 281, 491-500.	3.4	273
17	Adiponutrin Functions as a Nutritionally Regulated Lysophosphatidic Acid Acyltransferase. <i>Cell Metabolism</i> , 2012, 15, 691-702.	16.2	258
18	Hepatic Overexpression of Hormone-sensitive Lipase and Adipose Triglyceride Lipase Promotes Fatty Acid Oxidation, Stimulates Direct Release of Free Fatty Acids, and Ameliorates Steatosis. <i>Journal of Biological Chemistry</i> , 2008, 283, 13087-13099.	3.4	252

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19	Neutral lipid storage disease: genetic disorders caused by mutations in adipose triglyceride lipase/ <i>PNPLA2</i> or <i>CGI-58</i> / <i>ABHD5</i> . <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E289-E296.	3.5	244
20	Cold-Induced Thermogenesis Depends on ATGL-Mediated Lipolysis in Cardiac Muscle, but Not Brown Adipose Tissue. <i>Cell Metabolism</i> , 2017, 26, 753-763.e7.	16.2	242
21	Lipolysis: pathway under construction. <i>Current Opinion in Lipidology</i> , 2005, 16, 333-340.	2.7	234
22	Monoglyceride Lipase Deficiency in Mice Impairs Lipolysis and Attenuates Diet-induced Insulin Resistance. <i>Journal of Biological Chemistry</i> , 2011, 286, 17467-17477.	3.4	224
23	Brain Insulin Controls Adipose Tissue Lipolysis and Lipogenesis. <i>Cell Metabolism</i> , 2011, 13, 183-194.	16.2	216
24	<i>PNPLA1</i> mutations cause autosomal recessive congenital ichthyosis in golden retriever dogs and humans. <i>Nature Genetics</i> , 2012, 44, 140-147.	21.4	208
25	Lipolysis: cellular mechanisms for lipid mobilization from fat stores. <i>Nature Metabolism</i> , 2021, 3, 1445-1465.	11.9	208
26	Lipoprotein lipase: the regulation of tissue specific expression and its role in lipid and energy metabolism. <i>Current Opinion in Lipidology</i> , 2002, 13, 471-481.	2.7	196
27	<i>Pnpla3</i> /Adiponutrin deficiency in mice does not contribute to fatty liver disease or metabolic syndrome. <i>Journal of Lipid Research</i> , 2011, 52, 318-329.	4.2	190
28	Brown adipose tissue whitening leads to brown adipocyte death and adipose tissue inflammation. <i>Journal of Lipid Research</i> , 2018, 59, 784-794.	4.2	184
29	Studies on the Substrate and Stereo/Regioselectivity of Adipose Triglyceride Lipase, Hormone-sensitive Lipase, and Diacylglycerol-O-acyltransferases. <i>Journal of Biological Chemistry</i> , 2012, 287, 41446-41457.	3.4	171
30	Growth Retardation, Impaired Triacylglycerol Catabolism, Hepatic Steatosis, and Lethal Skin Barrier Defect in Mice Lacking Comparative Gene Identification-58 (<i>CGI-58</i>). <i>Journal of Biological Chemistry</i> , 2010, 285, 7300-7311.	3.4	168
31	Development of small-molecule inhibitors targeting adipose triglyceride lipase. <i>Nature Chemical Biology</i> , 2013, 9, 785-787.	8.0	163
32	Recommended nomenclature for five mammalian carboxylesterase gene families: human, mouse, and rat genes and proteins. <i>Mammalian Genome</i> , 2010, 21, 427-441.	2.2	147
33	Pharmacological inhibition of adipose triglyceride lipase corrects high-fat diet-induced insulin resistance and hepatosteatosis in mice. <i>Nature Communications</i> , 2017, 8, 14859.	12.8	143
34	Measurement of Lipolysis. <i>Methods in Enzymology</i> , 2014, 538, 171-193.	1.0	140
35	Alterations in Lipid Metabolism Mediate Inflammation, Fibrosis, and Proliferation in a Mouse Model of Chronic Cholestatic Liver Injury. <i>Gastroenterology</i> , 2012, 142, 140-151.e12.	1.3	139
36	The C-terminal Region of Human Adipose Triglyceride Lipase Affects Enzyme Activity and Lipid Droplet Binding. <i>Journal of Biological Chemistry</i> , 2008, 283, 17211-17220.	3.4	133

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37	Hormone-sensitive Lipase Deficiency in Mice Changes the Plasma Lipid Profile by Affecting the Tissue-specific Expression Pattern of Lipoprotein Lipase in Adipose Tissue and Muscle. <i>Journal of Biological Chemistry</i> , 2002, 277, 12946-12952.	3.4	132
38	Lipolysis Triggers a Systemic Insulin Response Essential for Efficient Energy Replenishment of Activated Brown Adipose Tissue in Mice. <i>Cell Metabolism</i> , 2018, 28, 644-655.e4.	16.2	129
39	Efficient Phagocytosis Requires Triacylglycerol Hydrolysis by Adipose Triglyceride Lipase. <i>Journal of Biological Chemistry</i> , 2010, 285, 20192-20201.	3.4	126
40	Myocardial Contractile Function and Heart Rate in Mice With Myocyte-Specific Overexpression of Endothelial Nitric Oxide Synthase. <i>Circulation</i> , 2001, 104, 3097-3102.	1.6	112
41	Adipose triacylglycerol lipase deletion alters whole body energy metabolism and impairs exercise performance in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2009, 297, E505-E513.	3.5	111
42	Cardiac-specific Knock-out of Lipoprotein Lipase Alters Plasma Lipoprotein Triglyceride Metabolism and Cardiac Gene Expression. <i>Journal of Biological Chemistry</i> , 2004, 279, 25050-25057.	3.4	107
43	Pigment Epithelium-Derived Factor Regulates Lipid Metabolism via Adipose Triglyceride Lipase. <i>Diabetes</i> , 2011, 60, 1458-1466.	0.6	106
44	Increased Hepatic Insulin Sensitivity Together with Decreased Hepatic Triglyceride Stores in Hormone-Sensitive Lipase-Deficient Mice. <i>Endocrinology</i> , 2003, 144, 3456-3462.	2.8	104
45	Adipose Triglyceride Lipase Deficiency Causes Tissue-specific Changes in Insulin Signaling. <i>Journal of Biological Chemistry</i> , 2009, 284, 30218-30229.	3.4	101
46	The ATGL Gene Is Associated With Free Fatty Acids, Triglycerides, and Type 2 Diabetes. <i>Diabetes</i> , 2006, 55, 1270-1275.	0.6	100
47	Fat-specific Protein 27 (FSP27) Interacts with Adipose Triglyceride Lipase (ATGL) to Regulate Lipolysis and Insulin Sensitivity in Human Adipocytes. <i>Journal of Biological Chemistry</i> , 2014, 289, 12029-12039.	3.4	100
48	Decreased fatty acid esterification compensates for the reduced lipolytic activity in hormone-sensitive lipase-deficient white adipose tissue. <i>Journal of Lipid Research</i> , 2003, 44, 2089-2099.	4.2	99
49	Cardiac-specific overexpression of perilipin 5 provokes severe cardiac steatosis via the formation of a lipolytic barrier. <i>Journal of Lipid Research</i> , 2013, 54, 1092-1102.	4.2	97
50	Myocardial ATGL Overexpression Decreases the Reliance on Fatty Acid Oxidation and Protects against Pressure Overload-Induced Cardiac Dysfunction. <i>Molecular and Cellular Biology</i> , 2012, 32, 740-750.	2.3	95
51	The N-terminal Region of Comparative Gene Identification-58 (CGI-58) Is Important for Lipid Droplet Binding and Activation of Adipose Triglyceride Lipase. <i>Journal of Biological Chemistry</i> , 2010, 285, 12289-12298.	3.4	94
52	Adipose triglyceride lipase plays a key role in the supply of the working muscle with fatty acids. <i>Journal of Lipid Research</i> , 2010, 51, 490-499.	4.2	89
53	G0/G1 switch gene-2 regulates human adipocyte lipolysis by affecting activity and localization of adipose triglyceride lipase. <i>Journal of Lipid Research</i> , 2012, 53, 2307-2317.	4.2	88
54	Adipose Triglyceride Lipase (ATGL) and Hormone-Sensitive Lipase (HSL) Deficiencies Affect Expression of Lipolytic Activities in Mouse Adipose Tissues. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 1777-1789.	3.8	82

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55	Role of adipose triglyceride lipase (PNPLA2) in protection from hepatic inflammation in mouse models of steatohepatitis and endotoxemia. <i>Hepatology</i> , 2014, 59, 858-869.	7.3	80
56	Myocardial Adipose Triglyceride Lipase Overexpression Protects Diabetic Mice From the Development of Lipotoxic Cardiomyopathy. <i>Diabetes</i> , 2013, 62, 1464-1477.	0.6	78
57	The Minimal Domain of Adipose Triglyceride Lipase (ATGL) Ranges until Leucine 254 and Can Be Activated and Inhibited by CGI-58 and GOS2, Respectively. <i>PLoS ONE</i> , 2011, 6, e26349.	2.5	76
58	The Interplay of Protein Kinase A and Perilipin 5 Regulates Cardiac Lipolysis*. <i>Journal of Biological Chemistry</i> , 2015, 290, 1295-1306.	3.4	75
59	Letting lipids go: hormone-sensitive lipase. <i>Current Opinion in Lipidology</i> , 2003, 14, 289-297.	2.7	74
60	Adipose Triglyceride Lipase Is Implicated in Fuel- and Non-fuel-stimulated Insulin Secretion. <i>Journal of Biological Chemistry</i> , 2009, 284, 16848-16859.	3.4	73
61	Depletion of White Adipose Tissue in Cancer Cachexia Syndrome Is Associated with Inflammatory Signaling and Disrupted Circadian Regulation. <i>PLoS ONE</i> , 2014, 9, e92966.	2.5	69
62	Lipolysis drives expression of the constitutively active receptor GPR3 to induce adipose thermogenesis. <i>Cell</i> , 2021, 184, 3502-3518.e33.	28.9	68
63	Loss of adipose triglyceride lipase is associated with human cancer and induces mouse pulmonary neoplasia. <i>Oncotarget</i> , 2016, 7, 33832-33840.	1.8	63
64	CD8+ T cells induce cachexia during chronic viral infection. <i>Nature Immunology</i> , 2019, 20, 701-710.	14.5	62
65	Hypoxia-inducible Lipid Droplet-associated (HILPDA) Is a Novel Peroxisome Proliferator-activated Receptor (PPAR) Target Involved in Hepatic Triglyceride Secretion. <i>Journal of Biological Chemistry</i> , 2014, 289, 19279-19293.	3.4	61
66	Skeletal Muscle Triacylglycerol Hydrolysis Does Not Influence Metabolic Complications of Obesity. <i>Diabetes</i> , 2013, 62, 3350-3361.	0.6	60
67	Functional Cardiac Lipolysis in Mice Critically Depends on Comparative Gene Identification-58. <i>Journal of Biological Chemistry</i> , 2013, 288, 9892-9904.	3.4	60
68	Hypoxia-inducible lipid droplet-associated protein inhibits adipose triglyceride lipase. <i>Journal of Lipid Research</i> , 2018, 59, 531-541.	4.2	60
69	Hypophagia and metabolic adaptations in mice with defective ATGL-mediated lipolysis cause resistance to HFD-induced obesity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13850-13855.	7.1	58
70	Fibroblast growth factor 21 is induced upon cardiac stress and alters cardiac lipid homeostasis. <i>Journal of Lipid Research</i> , 2014, 55, 2229-2241.	4.2	57
71	ATGL is a biosynthetic enzyme for fatty acid esters of hydroxy fatty acids. <i>Nature</i> , 2022, 606, 968-975.	27.8	57
72	Adipose triglyceride lipase affects triacylglycerol metabolism at brain barriers. <i>Journal of Neurochemistry</i> , 2011, 119, 1016-1028.	3.9	54

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73	The Lipolytic Proteome of Mouse Adipose Tissue. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1710-1717.	3.8	53
74	Rapid and simple isolation procedure for lipoprotein lipase from human milk. <i>Lipids and Lipid Metabolism</i> , 1990, 1044, 20-25.	2.6	52
75	Early structural and metabolic cardiac remodelling in response to inducible adipose triglyceride lipase ablation. <i>Cardiovascular Research</i> , 2013, 99, 442-451.	3.8	52
76	Adipose triglyceride lipase activity is inhibited by long-chain acyl-coenzyme A. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 588-594.	2.4	50
77	Fatty Acid-binding Proteins Interact with Comparative Gene Identification-58 Linking Lipolysis with Lipid Ligand Shuttling. <i>Journal of Biological Chemistry</i> , 2015, 290, 18438-18453.	3.4	49
78	Investigation and Functional Characterization of Rare Genetic Variants in the Adipose Triglyceride Lipase in a Large Healthy Working Population. <i>PLoS Genetics</i> , 2010, 6, e1001239.	3.5	46
79	Cholesteryl ester hydrolase activity is abolished in HSL macrophages but unchanged in macrophages lacking KIAA1363. <i>Journal of Lipid Research</i> , 2010, 51, 2896-2908.	4.2	45
80	Another way to get rid of fat. <i>Nature</i> , 2009, 458, 1118-1119.	27.8	44
81	Macrophage Adipose Triglyceride Lipase Deficiency Attenuates Atherosclerotic Lesion Development in Low-Density Lipoprotein Receptor Knockout Mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 67-73.	2.4	44
82	Structure of a CGI-58 Motif Provides the Molecular Basis of Lipid Droplet Anchoring. <i>Journal of Biological Chemistry</i> , 2015, 290, 26361-26372.	3.4	43
83	Lipokine 5-PAHSA Is Regulated by Adipose Triglyceride Lipase and Primes Adipocytes for De Novo Lipogenesis in Mice. <i>Diabetes</i> , 2020, 69, 300-312.	0.6	43
84	Adipose triglyceride lipase is involved in the mobilization of triglyceride and retinoid stores of hepatic stellate cells. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2015, 1851, 937-945.	2.4	40
85	Fasting-induced G0/G1 switch gene 2 and FGF21 expression in the liver are under regulation of adipose tissue derived fatty acids. <i>Journal of Hepatology</i> , 2015, 63, 437-445.	3.7	40
86	Lysosomal Acid Lipase Hydrolyzes Retinyl Ester and Affects Retinoid Turnover. <i>Journal of Biological Chemistry</i> , 2016, 291, 17977-17987.	3.4	40
87	A Peptide Derived from G0/G1 Switch Gene 2 Acts as Noncompetitive Inhibitor of Adipose Triglyceride Lipase. <i>Journal of Biological Chemistry</i> , 2014, 289, 32559-32570.	3.4	39
88	Distinct roles of adipose triglyceride lipase and hormone-sensitive lipase in the catabolism of triacylglycerol estolides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	39
89	Differential transcriptional modulation of biological processes in adipocyte triglyceride lipase and hormone-sensitive lipase-deficient mice. <i>Genomics</i> , 2008, 92, 26-32.	2.9	36
90	Recent insights into the structure and function of comparative gene identification-58. <i>Current Opinion in Lipidology</i> , 2011, 22, 149-158.	2.7	36

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91	Regulation of Hepatic Triacylglycerol Metabolism by CGI-58 Does Not Require ATGL Co-activation. <i>Cell Reports</i> , 2016, 16, 939-949.	6.4	36
92	The Hepatitis C Virus Core Protein Inhibits Adipose Triglyceride Lipase (ATGL)-mediated Lipid Mobilization and Enhances the ATGL Interaction with Comparative Gene Identification 58 (CGI-58) and Lipid Droplets. <i>Journal of Biological Chemistry</i> , 2014, 289, 35770-35780.	3.4	29
93	G0/G1 Switch Gene 2 Regulates Cardiac Lipolysis. <i>Journal of Biological Chemistry</i> , 2015, 290, 26141-26150.	3.4	28
94	Liver X receptor $\hat{\pm}$ mediates hepatic triglyceride accumulation through upregulation of G0/G1 Switch Gene 2 expression. <i>JCI Insight</i> , 2017, 2, e88735.	5.0	28
95	An immune-sympathetic neuron communication axis guides adipose tissue browning in cancer-associated cachexia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	28
96	The Role of Adipose Triglyceride Lipase and Cytosolic Lipolysis in Cardiac Function and Heart Failure. <i>Cell Reports Medicine</i> , 2020, 1, 100001.	6.5	27
97	Adipose triglyceride lipase activity regulates cancer cell proliferation via AMP-kinase and mTOR signaling. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020, 1865, 158737.	2.4	26
98	Cardiac oxidative stress in a mouse model of neutral lipid storage disease. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 1600-1608.	2.4	25
99	Endothelial dysfunction in adipose triglyceride lipase deficiency. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 906-917.	2.4	25
100	Micro RNA-124a Regulates Lipolysis via Adipose Triglyceride Lipase and Comparative Gene Identification 58. <i>International Journal of Molecular Sciences</i> , 2015, 16, 8555-8568.	4.1	25
101	Metabolic disease and ABHD6 alter the circulating bis(monoacylglycerol)phosphate profile in mice and humans. <i>Journal of Lipid Research</i> , 2019, 60, 1020-1031.	4.2	25
102	Enhanced monoacylglycerol lipolysis by ABHD6 promotes NSCLC pathogenesis. <i>EBioMedicine</i> , 2020, 53, 102696.	6.1	25
103	Fat in the skin. <i>Dermato-Endocrinology</i> , 2011, 3, 77-83.	1.8	23
104	The phospholipase PNPLA7 functions as a lysophosphatidylcholine hydrolase and interacts with lipid droplets through its catalytic domain. <i>Journal of Biological Chemistry</i> , 2017, 292, 19087-19098.	3.4	22
105	Atglistatin ameliorates functional decline in heart failure via adipocyte-specific inhibition of adipose triglyceride lipase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H879-H884.	3.2	20
106	Pharmacological inhibition of adipose tissue adipose triglyceride lipase by Atglistatin prevents catecholamine-induced myocardial damage. <i>Cardiovascular Research</i> , 2022, 118, 2488-2505.	3.8	20
107	Lipolysis meets inflammation: arachidonic acid mobilization from fat. <i>Journal of Lipid Research</i> , 2014, 55, 2447-2449.	4.2	19
108	Breaking the Barrier"Chaperone-Mediated Autophagy of Perilipins Regulates the Lipolytic Degradation of Fat. <i>Cell Metabolism</i> , 2015, 22, 60-61.	16.2	18

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109	Mice lacking lipid droplet-associated hydrolase, a gene linked to human prostate cancer, have normal cholesterol ester metabolism. <i>Journal of Lipid Research</i> , 2017, 58, 226-235.	4.2	16
110	Small-Molecule Inhibitors Targeting Lipolysis in Human Adipocytes. <i>Journal of the American Chemical Society</i> , 2022, 144, 6237-6250.	13.7	16
111	Identification of an intrinsic lysophosphatidic acid acyltransferase activity in the lipolytic inhibitor G0/G1 switch gene 2 (GOS2). <i>FASEB Journal</i> , 2019, 33, 6655-6666.	0.5	15
112	Monoacylglycerol Lipases Act as Evolutionarily Conserved Regulators of Non-oxidative Ethanol Metabolism. <i>Journal of Biological Chemistry</i> , 2016, 291, 11865-11875.	3.4	14
113	Hormone-Sensitive Lipase Deficiency in Humans. <i>Cell Metabolism</i> , 2014, 20, 199-201.	16.2	13
114	Optimized expression and purification of adipose triglyceride lipase improved hydrolytic and transacylation activities in vitro. <i>Journal of Biological Chemistry</i> , 2021, 297, 101206.	3.4	13
115	Comparative gene identification-58/±/² hydrolase domain 5. <i>Current Opinion in Lipidology</i> , 2014, 25, 102-109.	2.7	12
116	Role of the ubiquitin-proteasome system in cardiac dysfunction of adipose triglyceride lipase-deficient mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 77, 11-19.	1.9	8
117	Adipose triglyceride lipase mediated lipid catabolism is essential for bronchiolar regeneration. <i>JCI Insight</i> , 2022, , .	5.0	5