

Guenter Haemmerle

List of Publications by Year in descending order

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75
papers

12,187
citations

57631

44
h-index

74018

75
g-index

75
all docs

75
docs citations

75
times ranked

11966
citing authors

#	ARTICLE	IF	CITATIONS
1	Fat Mobilization in Adipose Tissue Is Promoted by Adipose Triglyceride Lipase. <i>Science</i> , 2004, 306, 1383-1386.	6.0	1,744
2	Defective Lipolysis and Altered Energy Metabolism in Mice Lacking Adipose Triglyceride Lipase. <i>Science</i> , 2006, 312, 734-737.	6.0	1,135
3	FAT SIGNALS - Lipases and Lipolysis in Lipid Metabolism and Signaling. <i>Cell Metabolism</i> , 2012, 15, 279-291.	7.2	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.	7.2	766
5	ATGL-mediated fat catabolism regulates cardiac mitochondrial function via PPAR- α and PGC-1. <i>Nature Medicine</i> , 2011, 17, 1076-1085.	15.2	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.	3.9	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.	1.6	562
8	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.	1.6	512
9	Adipose Triglyceride Lipase Contributes to Cancer-Associated Cachexia. <i>Science</i> , 2011, 333, 233-238.	6.0	475
10	Adipose triglyceride lipase and the lipolytic catabolism of cellular fat stores. <i>Journal of Lipid Research</i> , 2009, 50, 3-21.	2.0	449
11	Adiponutrin Functions as a Nutritionally Regulated Lysophosphatidic Acid Acyltransferase. <i>Cell Metabolism</i> , 2012, 15, 691-702.	7.2	258
12	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.	7.2	242
13	Lipolysis: pathway under construction. <i>Current Opinion in Lipidology</i> , 2005, 16, 333-340.	1.2	234
14	Monoglyceride Lipase Deficiency in Mice Impairs Lipolysis and Attenuates Diet-induced Insulin Resistance. <i>Journal of Biological Chemistry</i> , 2011, 286, 17467-17477.	1.6	224
15	Fate of fat: The role of adipose triglyceride lipase in lipolysis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 494-500.	1.2	192
16	Brown adipose tissue whitening leads to brown adipocyte death and adipose tissue inflammation. <i>Journal of Lipid Research</i> , 2018, 59, 784-794.	2.0	184
17	Growth Retardation, Impaired Triacylglycerol Catabolism, Hepatic Steatosis, and Lethal Skin Barrier Defect in Mice Lacking Comparative Gene Identification-58 (CGI-58). <i>Journal of Biological Chemistry</i> , 2010, 285, 7300-7311.	1.6	168
18	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.	1.6	133

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19	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.	1.6	132
20	Efficient Phagocytosis Requires Triacylglycerol Hydrolysis by Adipose Triglyceride Lipase. <i>Journal of Biological Chemistry</i> , 2010, 285, 20192-20201.	1.6	126
21	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.	1.6	107
22	Increased Hepatic Insulin Sensitivity Together with Decreased Hepatic Triglyceride Stores in Hormone-Sensitive Lipase-Deficient Mice. <i>Endocrinology</i> , 2003, 144, 3456-3462.	1.4	104
23	Adipose Triglyceride Lipase Deficiency Causes Tissue-specific Changes in Insulin Signaling. <i>Journal of Biological Chemistry</i> , 2009, 284, 30218-30229.	1.6	101
24	Impairment of hepatic growth hormone and glucocorticoid receptor signaling causes steatosis and hepatocellular carcinoma in mice. <i>Hepatology</i> , 2011, 54, 1398-1409.	3.6	100
25	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.	2.0	99
26	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.	2.0	97
27	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.	1.1	95
28	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.	2.0	89
29	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.	2.5	82
30	Myocardial Adipose Triglyceride Lipase Overexpression Protects Diabetic Mice From the Development of Lipotoxic Cardiomyopathy. <i>Diabetes</i> , 2013, 62, 1464-1477.	0.3	78
31	PNPLA1 Deficiency in Mice and Humans Leads to a Defect in the Synthesis of Omega-O-Acylceramides. <i>Journal of Investigative Dermatology</i> , 2017, 137, 394-402.	0.3	78
32	Absence of adipose triglyceride lipase protects from hepatic endoplasmic reticulum stress in mice. <i>Hepatology</i> , 2012, 56, 270-280.	3.6	75
33	The Interplay of Protein Kinase A and Perilipin 5 Regulates Cardiac Lipolysis*. <i>Journal of Biological Chemistry</i> , 2015, 290, 1295-1306.	1.6	75
34	Letting lipids go: hormone-sensitive lipase. <i>Current Opinion in Lipidology</i> , 2003, 14, 289-297.	1.2	74
35	Adipose Triglyceride Lipase Is Implicated in Fuel- and Non-fuel-stimulated Insulin Secretion. <i>Journal of Biological Chemistry</i> , 2009, 284, 16848-16859.	1.6	73
36	Functional Cardiac Lipolysis in Mice Critically Depends on Comparative Gene Identification-58. <i>Journal of Biological Chemistry</i> , 2013, 288, 9892-9904.	1.6	60

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37	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.	3.3	58
38	Fibroblast growth factor 21 is induced upon cardiac stress and alters cardiac lipid homeostasis. <i>Journal of Lipid Research</i> , 2014, 55, 2229-2241.	2.0	57
39	The Lipolytic Proteome of Mouse Adipose Tissue. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1710-1717.	2.5	53
40	Early structural and metabolic cardiac remodelling in response to inducible adipose triglyceride lipase ablation. <i>Cardiovascular Research</i> , 2013, 99, 442-451.	1.8	52
41	Validated Comprehensive Analytical Method for Quantification of Coenzyme A Activated Compounds in Biological Tissues by Online Solid-Phase Extraction LC/MS/MS. <i>Analytical Chemistry</i> , 2008, 80, 5736-5742.	3.2	51
42	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.	1.2	50
43	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.	1.6	49
44	Adipocyte STAT5 deficiency promotes adiposity and impairs lipid mobilisation in mice. <i>Diabetologia</i> , 2017, 60, 296-305.	2.9	48
45	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.	2.0	45
46	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.	1.1	44
47	The lipid-droplet-associated protein ABHD5 protects the heart through proteolysis of HDAC4. <i>Nature Metabolism</i> , 2019, 1, 1157-1167.	5.1	42
48	Endothelial lipase provides an alternative pathway for FFA uptake in lipoprotein lipase-deficient mouse adipose tissue. <i>Journal of Clinical Investigation</i> , 2005, 115, 161-167.	3.9	42
49	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.	1.2	40
50	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.	1.8	40
51	Lysosomal Acid Lipase Hydrolyzes Retinyl Ester and Affects Retinoid Turnover. <i>Journal of Biological Chemistry</i> , 2016, 291, 17977-17987.	1.6	40
52	ABHD5 stimulates PNPLA1-mediated 1-O-acylceramide biosynthesis essential for a functional skin permeability barrier. <i>Journal of Lipid Research</i> , 2018, 59, 2360-2367.	2.0	38
53	Regulation of Hepatic Triacylglycerol Metabolism by CGI-58 Does Not Require ATGL Co-activation. <i>Cell Reports</i> , 2016, 16, 939-949.	2.9	36
54	Skin Barrier Development Depends on CGI-58 Protein Expression during Late-Stage Keratinocyte Differentiation. <i>Journal of Investigative Dermatology</i> , 2017, 137, 403-413.	0.3	33

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55	The Role of Adipose Triglyceride Lipase and Cytosolic Lipolysis in Cardiac Function and Heart Failure. <i>Cell Reports Medicine</i> , 2020, 1, 100001.	3.3	27
56	Esterase 22 and beta-glucuronidase hydrolyze retinoids in mouse liver. <i>Journal of Lipid Research</i> , 2009, 50, 2514-2523.	2.0	25
57	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.	1.2	25
58	Endothelial dysfunction in adipose triglyceride lipase deficiency. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 906-917.	1.2	25
59	Hepatocyte-specific deletion of adipose triglyceride lipase (adipose triglyceride lipase/patatin-like) Tj ETQq1 1 0.784314 rgBT /Ove 2022, 75, 125-139.	3.6	25
60	Lipid droplet-mitochondria coupling via perilipin 5 augments respiratory capacity but is dispensable for FA oxidation. <i>Journal of Lipid Research</i> , 2022, 63, 100172.	2.0	25
61	Intestine-specific Overexpression of Carboxylesterase 2c Protects Mice From Diet-induced Liver Steatosis and Obesity. <i>Hepatology Communications</i> , 2019, 3, 227-245.	2.0	24
62	Defective uptake of triglyceride-associated fatty acids in adipose tissue causes the SREBP-1c-mediated induction of lipogenesis. <i>Journal of Lipid Research</i> , 2004, 45, 356-365.	2.0	23
63	Fat in the skin. <i>Dermato-Endocrinology</i> , 2011, 3, 77-83.	1.9	23
64	Low cardiac lipolysis reduces mitochondrial fission and prevents lipotoxic heart dysfunction in Perilipin 5 mutant mice. <i>Cardiovascular Research</i> , 2020, 116, 339-352.	1.8	23
65	Carboxylesterase 2 proteins are efficient diglyceride and monoglyceride lipases possibly implicated in metabolic disease. <i>Journal of Lipid Research</i> , 2021, 62, 100075.	2.0	23
66	Endothelial lipase provides an alternative pathway for FFA uptake in lipoprotein lipase-deficient mouse adipose tissue. <i>Journal of Clinical Investigation</i> , 2005, 115, 161-167.	3.9	23
67	The impact of genetic stress by ATGL deficiency on the lipidome of lipid droplets from murine hepatocytes. <i>Journal of Lipid Research</i> , 2013, 54, 2185-2194.	2.0	18
68	Extended-resolution imaging of the interaction of lipid droplets and mitochondria. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 1285-1296.	1.2	17
69	Genetically modified mouse models to study hepatic neutral lipid mobilization. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 879-894.	1.8	17
70	Cholesteryl ester accumulation and accelerated cholesterol absorption in intestine-specific hormone sensitive lipase-null mice. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2012, 1821, 1406-1414.	1.2	15
71	Fat in the heart: The enzymatic machinery regulating cardiac triacylglycerol metabolism. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1500-1512.	1.2	13
72	Comparative gene identification-58/1±/1² hydrolase domain 5. <i>Current Opinion in Lipidology</i> , 2014, 25, 102-109.	1.2	12

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73	Advanced lipodystrophy reverses fatty liver in mice lacking adipocyte hormone-sensitive lipase. <i>Communications Biology</i> , 2021, 4, 323.	2.0	9
74	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.	0.9	8
75	Enterocyte-specific ATGL overexpression affects intestinal and systemic cholesterol homeostasis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2022, 1867, 159121.	1.2	2