

# Thomas O Eichmann

## List of Publications by Year in descending order

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59  
papers

3,866  
citations

186265  
28  
h-index

133252  
59  
g-index

61  
all docs

61  
docs citations

61  
times ranked

6312  
citing authors

#	ARTICLE	IF	CITATIONS
1	FAT SIGNALS - Lipases and Lipolysis in Lipid Metabolism and Signaling. <i>Cell Metabolism</i> , 2012, 15, 279-291.	16.2	852
2	A novel mechanism for the biogenesis of outer membrane vesicles in Gram-negative bacteria. <i>Nature Communications</i> , 2016, 7, 10515.	12.8	360
3	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
4	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
5	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
6	Development of small-molecule inhibitors targeting adipose triglyceride lipase. <i>Nature Chemical Biology</i> , 2013, 9, 785-787.	8.0	163
7	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
8	A versatile ultra-high performance LC-MS method for lipid profiling. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 951-952, 119-128.	2.3	141
9	Measurement of Lipolysis. <i>Methods in Enzymology</i> , 2014, 538, 171-193.	1.0	140
10	Lipid droplets induced by secreted phospholipase A2 and unsaturated fatty acids protect breast cancer cells from nutrient and lipotoxic stress. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2018, 1863, 247-265.	2.4	99
11	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
12	Lipoprotein Lipase Maintains Microglial Innate Immunity in Obesity. <i>Cell Reports</i> , 2017, 20, 3034-3042.	6.4	89
13	<i>PNPLA1</i> 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.	0.7	78
14	Adipose triglyceride lipase acts on neutrophil lipid droplets to regulate substrate availability for lipid mediator synthesis. <i>Journal of Leukocyte Biology</i> , 2015, 98, 837-850.	3.3	64
15	Disruption of Lipid Uptake in Astroglia Exacerbates Diet-Induced Obesity. <i>Diabetes</i> , 2017, 66, 2555-2563.	0.6	59
16	Deletion of Monoglyceride Lipase in Astrocytes Attenuates Lipopolysaccharide-induced Neuroinflammation. <i>Journal of Biological Chemistry</i> , 2016, 291, 913-923.	3.4	55
17	Adipose triglyceride lipase affects triacylglycerol metabolism at brain barriers. <i>Journal of Neurochemistry</i> , 2011, 119, 1016-1028.	3.9	54
18	Quality control requirements for the correct annotation of lipidomics data. <i>Nature Communications</i> , 2021, 12, 4771.	12.8	54

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19	Autotaxin-LPA signaling contributes to obesity-induced insulin resistance in muscle and impairs mitochondrial metabolism. <i>Journal of Lipid Research</i> , 2018, 59, 1805-1817.	4.2	41
20	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
21	Lysosomal Acid Lipase Hydrolyzes Retinyl Ester and Affects Retinoid Turnover. <i>Journal of Biological Chemistry</i> , 2016, 291, 17977-17987.	3.4	40
22	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.	4.2	38
23	1,3-Bis(sn)-sn-Glycerol-3-phosphate 2-Hydrolyase Domain-containing 6 (ABHD6) Degrades the Late Endosomal/Lysosomal Lipid Bis(monoacylglycerol)phosphate. <i>Journal of Biological Chemistry</i> , 2015, 290, 29869-29881.	3.4	37
24	Loss of ABHD15 Impairs the Anti-lipolytic Action of Insulin by Altering PDE3B Stability and Contributes to Insulin Resistance. <i>Cell Reports</i> , 2018, 23, 1948-1961.	6.4	36
25	Monoglyceride lipase deficiency modulates endocannabinoid signaling and improves plaque stability in ApoE-knockout mice. <i>Atherosclerosis</i> , 2016, 244, 9-21.	0.8	35
26	Skin Barrier Development Depends on CGI-58 Protein Expression during Late-Stage Keratinocyte Differentiation. <i>Journal of Investigative Dermatology</i> , 2017, 137, 403-413.	0.7	33
27	Monoglyceride lipase deficiency causes desensitization of intestinal cannabinoid receptor type 1 and increased colonic 1,4-1,4-epioid receptor sensitivity. <i>British Journal of Pharmacology</i> , 2015, 172, 4419-4429.	5.4	32
28	ATGL and CGI-58 are lipid droplet proteins of the hepatic stellate cell line HSC-T6. <i>Journal of Lipid Research</i> , 2015, 56, 1972-1984.	4.2	32
29	G0/G1 Switch Gene 2 Regulates Cardiac Lipolysis. <i>Journal of Biological Chemistry</i> , 2015, 290, 26141-26150.	3.4	28
30	Homocysteine regulates fatty acid and lipid metabolism in yeast. <i>Journal of Biological Chemistry</i> , 2018, 293, 5544-5555.	3.4	28
31	Critical role of the peroxisomal protein PEX16 in white adipocyte development and lipid homeostasis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 358-368.	2.4	26
32	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
33	Enhanced monoacylglycerol lipolysis by ABHD6 promotes NSCLC pathogenesis. <i>EBioMedicine</i> , 2020, 53, 102696.	6.1	25
34	Low cardiac lipolysis reduces mitochondrial fission and prevents lipotoxic heart dysfunction in Perilipin 5 mutant mice. <i>Cardiovascular Research</i> , 2020, 116, 339-352.	3.8	23
35	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
36	Secretory phospholipase A2 modified HDL rapidly and potently suppresses platelet activation. <i>Scientific Reports</i> , 2017, 7, 8030.	3.3	22

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37	Allergic rhinitis is associated with complex alterations in high-density lipoprotein composition and function. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 1280-1292.	2.4	22
38	Epidermal Overexpression of Xenobiotic Receptor PXR Impairs the Epidermal Barrier and Triggers Th2 Immune Response. <i>Journal of Investigative Dermatology</i> , 2018, 138, 109-120.	0.7	21
39	Reduced Incorporation of Fatty Acids Into Triacylglycerol in Myotubes From Obese Individuals With Type 2 Diabetes. <i>Diabetes</i> , 2014, 63, 1583-1593.	0.6	20
40	Impact of Endothelial Lipase on Cholesterol Efflux Capacity of Serum and High-density Lipoprotein. <i>Scientific Reports</i> , 2017, 7, 12485.	3.3	19
41	A Monoallelic Two-Hit Mechanism in PLCD1 Explains the Genetic Pathogenesis of Hereditary Trichilemmal Cyst Formation. <i>Journal of Investigative Dermatology</i> , 2019, 139, 2154-2163.e5.	0.7	17
42	Peroxisomal Fatty Acid Oxidation and Glycolysis Are Triggered in Mouse Models of Lesional Atopic Dermatitis. <i>JID Innovations</i> , 2021, 1, 100033.	2.4	16
43	Isolation of Outer Membrane Vesicles Including Their Quantitative and Qualitative Analyses. <i>Methods in Molecular Biology</i> , 2018, 1839, 117-134.	0.9	15
44	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
45	Hepatocyte-specific deletion of lysosomal acid lipase leads to cholesteryl ester but not triglyceride or retinyl ester accumulation. <i>Journal of Biological Chemistry</i> , 2019, 294, 9118-9133.	3.4	14
46	Control of Drosophila Growth and Survival by the Lipid Droplet-Associated Protein CG9186/Sturkopf. <i>Cell Reports</i> , 2019, 26, 3726-3740.e7.	6.4	14
47	A Class of Diacylglycerol Acyltransferase 1 Inhibitors Identified by a Combination of Phenotypic High-throughput Screening, Genomics, and Genetics. <i>EBioMedicine</i> , 2016, 8, 49-59.	6.1	13
48	Metabolic regulation of the lysosomal cofactor bis(monoacylglycero)phosphate in mice. <i>Journal of Lipid Research</i> , 2020, 61, 995-1003.	4.2	11
49	Myeloperoxidase and Septic Conditions Disrupt Sphingolipid Homeostasis in Murine Brain Capillaries In Vivo and Immortalized Human Brain Endothelial Cells In Vitro. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1143.	4.1	11
50	Hypothalamic hormone-sensitive lipase regulates appetite and energy homeostasis. <i>Molecular Metabolism</i> , 2021, 47, 101174.	6.5	11
51	±-Linolenic acid and product octadecanoids in Styrian pumpkin seeds and oils: How processing impacts lipidomes of fatty acid, triacylglycerol and oxylipin molecular structures. <i>Food Chemistry</i> , 2022, 371, 131194.	8.2	10
52	Monoglyceride lipase deficiency affects hepatic cholesterol metabolism and lipid-dependent gut transit in ApoE <sup>-/-</sup> mice. <i>Oncotarget</i> , 2017, 8, 33122-33136.	1.8	10
53	Advanced lipodystrophy reverses fatty liver in mice lacking adipocyte hormone-sensitive lipase. <i>Communications Biology</i> , 2021, 4, 323.	4.4	9
54	Lipidomic data on lipid droplet triglyceride remodelling associated with protection of breast cancer cells from lipotoxic stress. <i>Data in Brief</i> , 2018, 18, 234-240.	1.0	7

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55	The $\hat{1}\pm/\hat{1}^2$ -hydrolase domain-containing 4- and 5-related phospholipase Pummelig controls energy storage in <i>Drosophila</i> . <i>Journal of Lipid Research</i> , 2019, 60, 1365-1378.	4.2	7
56	Adipose triglyceride lipase mediated lipid catabolism is essential for bronchiolar regeneration. <i>JCI Insight</i> , 2022, , .	5.0	5
57	Biological anti-psoriatic therapy profoundly affects high-density lipoprotein function. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158943.	2.4	4
58	Adipose Triglyceride Lipase Deficiency Attenuates In Vitro Thrombus Formation without Affecting Platelet Activation and Bleeding In Vivo. <i>Cells</i> , 2022, 11, 850.	4.1	3
59	Glycerolipids: Tri-, Di-, and Monoacylglycerols. , 2015, , 1-4.		0