

Tobias C Walther

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

12,723
citations

50244

46
h-index

69214

77
g-index

108
all docs

108
docs citations

108
times ranked

13548
citing authors

#	ARTICLE	IF	CITATIONS
1	The CYTOLD and ERTOLD pathways for lipid droplet protein targeting. Trends in Biochemical Sciences, 2022, 47, 39-51.	3.7	40
2	Key Factors Governing Initial Stages of Lipid Droplet Formation. Journal of Physical Chemistry B, 2022, 126, 453-462.	1.2	15
3	The Lipid Droplet Knowledge Portal: A resource for systematic analyses of lipid droplet biology. Developmental Cell, 2022, 57, 387-397.e4.	3.1	22
4	Seipin forms a flexible cage at lipid droplet formation sites. Nature Structural and Molecular Biology, 2022, 29, 194-202.	3.6	33
5	Seipin transmembrane segments critically function in triglyceride nucleation and lipid droplet budding from the membrane. ELife, 2022, 11, .	2.8	22
6	The power of two: lessons from a scientific partnership. Journal of Clinical Investigation, 2021, 131, .	3.9	0
7	Combined immunodeficiency due to a mutation in the $\beta 1$ subunit of the coat protein I complex. Journal of Clinical Investigation, 2021, 131, .	3.9	15
8	Conditional targeting of phosphatidylserine decarboxylase to lipid droplets. Biology Open, 2021, 10, .	0.6	10
9	An open-access volume electron microscopy atlas of whole cells and tissues. Nature, 2021, 599, 147-151.	13.7	80
10	Neurotoxic microglia promote TDP-43 proteinopathy in progranulin deficiency. Nature, 2020, 588, 459-465.	13.7	98
11	A Systematic Protein Turnover Map for Decoding Protein Degradation. Cell Reports, 2020, 33, 108378.	2.9	20
12	Determinants of Endoplasmic Reticulum-to-Lipid Droplet Protein Targeting. Developmental Cell, 2020, 54, 471-487.e7.	3.1	42
13	Partitioning of MLX-Family Transcription Factors to Lipid Droplets Regulates Metabolic Gene Expression. Molecular Cell, 2020, 77, 1251-1264.e9.	4.5	78
14	Lipid Droplets in Brown Adipose Tissue Are Dispensable for Cold-Induced Thermogenesis. Cell Reports, 2020, 33, 108348.	2.9	53
15	Structure and catalytic mechanism of a human triacylglycerol-synthesis enzyme. Nature, 2020, 581, 323-328.	13.7	75
16	Inhibition of sphingolipid synthesis improves outcomes and survival in GARP mutant <i>wobbler</i> mice, a model of motor neuron degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10565-10574.	3.3	33
17	FIT2 is an acyl coenzyme A diphosphatase crucial for endoplasmic reticulum homeostasis. Journal of Cell Biology, 2020, 219, .	2.3	37
18	Lowe syndrome linked endocytic adaptors direct membrane cycling kinetics with OCRL in <i>Dictyostelium discoideum</i> . Molecular Biology of the Cell, 2019, 30, 2268-2282.	0.9	2

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19	LDAF1 and Seipin Form a Lipid Droplet Assembly Complex. <i>Developmental Cell</i> , 2019, 51, 551-563.e7.	3.1	152
20	Un-phased: Lipid Droplets Modulate the Bioavailability of Antibiotics. <i>Developmental Cell</i> , 2019, 50, 530-532.	3.1	3
21	Genome wide analysis of 3' UTR sequence elements and proteins regulating mRNA stability during maternal-to-zygotic transition in zebrafish. <i>Genome Research</i> , 2019, 29, 1100-1114.	2.4	49
22	Hepatocyte Deletion of Triglyceride Synthesis Enzyme Acyl CoA: Diacylglycerol Acyltransferase 2 Reduces Steatosis Without Increasing Inflammation or Fibrosis in Mice. <i>Hepatology</i> , 2019, 70, 1972-1985.	3.6	75
23	Probing the Global Cellular Responses to Lipotoxicity Caused by Saturated Fatty Acids. <i>Molecular Cell</i> , 2019, 74, 32-44.e8.	4.5	170
24	The triglyceride synthesis enzymes DGAT1 and DGAT2 have distinct and overlapping functions in adipocytes. <i>Journal of Lipid Research</i> , 2019, 60, 1112-1120.	2.0	106
25	Lipidomic Analysis of α -Synuclein Neurotoxicity Identifies Stearoyl CoA Desaturase as a Target for Parkinson Treatment. <i>Molecular Cell</i> , 2019, 73, 1001-1014.e8.	4.5	173
26	Murine knockin model for progranulin-deficient frontotemporal dementia with nonsense-mediated mRNA decay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2849-E2858.	3.3	47
27	Global Analyses of Selective Insulin Resistance in Hepatocytes Caused by Palmitate Lipotoxicity. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 836-849.	2.5	15
28	Functional Contribution of the Spastic Paraplegia-Related Triglyceride Hydrolase DDHD2 to the Formation and Content of Lipid Droplets. <i>Biochemistry</i> , 2018, 57, 827-838.	1.2	41
29	Mechanism and Determinants of Amphipathic Helix-Containing Protein Targeting to Lipid Droplets. <i>Developmental Cell</i> , 2018, 44, 73-86.e4.	3.1	175
30	OL1: A NOVEL MURINE KNOCK-IN MODEL FOR GRANULIN-DEFICIENT FRONTOTEMPORAL DEMENTIA WITH NONSENSE-MEDIATED MRNA DECA. <i>Alzheimer's and Dementia</i> , 2018, 14, P212.	0.4	0
31	Restoration of Light Sheet Multi-View Data with the Huygens Fusion and Deconvolution Wizard. <i>Microscopy Today</i> , 2018, 26, 12-19.	0.2	6
32	Cryo-electron microscopy structure of the lipid droplet formation protein seipin. <i>Journal of Cell Biology</i> , 2018, 217, 4080-4091.	2.3	147
33	Progranulin in the hematopoietic compartment protects mice from atherosclerosis. <i>Atherosclerosis</i> , 2018, 277, 145-154.	0.4	20
34	Deciphering the Role of Lipid Droplets in Cardiovascular Disease. <i>Circulation</i> , 2018, 138, 305-315.	1.6	89
35	Rab18 is not necessary for lipid droplet biogenesis or turnover in human mammary carcinoma cells. <i>Molecular Biology of the Cell</i> , 2018, 29, 2045-2054.	0.9	34
36	The unfolded protein response and endoplasmic reticulum protein targeting machineries converge on the stress sensor IRE1. <i>ELife</i> , 2018, 7, .	2.8	71

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37	A Novel Murine Knockâ€in Model for Progranulinâ€deficient Frontotemporal Dementia with Nonsenseâ€mediated mRNA Decay. <i>FASEB Journal</i> , 2018, 32, 807.8.	0.2	0
38	Lipid droplets and liver disease: from basic biology to clinical implications. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2017, 14, 343-355.	8.2	427
39	Identification and characterization of a novel DGAT1 missense mutation associated with congenital diarrhea. <i>Journal of Lipid Research</i> , 2017, 58, 1230-1237.	2.0	44
40	Triglyceride Synthesis by DGAT1 Protects Adipocytes from Lipid-Induced ER Stress during Lipolysis. <i>Cell Metabolism</i> , 2017, 26, 407-418.e3.	7.2	241
41	Lipid Droplet Biogenesis. <i>Annual Review of Cell and Developmental Biology</i> , 2017, 33, 491-510.	4.0	520
42	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.	2.0	16
43	The proteome and transcriptome of the infectious metacyclic form of <i>Trypanosoma brucei</i> define quiescent cells primed for mammalian invasion. <i>Molecular Microbiology</i> , 2017, 106, 74-92.	1.2	53
44	Seipin is required for converting nascent to mature lipid droplets. <i>ELife</i> , 2016, 5, .	2.8	292
45	Proteomic and phosphoproteomic analyses of yeast reveal the global cellular response to sphingolipid depletion. <i>Proteomics</i> , 2016, 16, 2759-2763.	1.3	17
46	Targeting Fat: Mechanisms of Protein Localization to Lipid Droplets. <i>Trends in Cell Biology</i> , 2016, 26, 535-546.	3.6	242
47	Lipid droplets go nuclear. <i>Journal of Cell Biology</i> , 2016, 212, 7-8.	2.3	28
48	The leukodystrophy protein FAM126A (hyccin) regulates PtdIns(4)P synthesis at the plasma membrane. <i>Nature Cell Biology</i> , 2016, 18, 132-138.	4.6	91
49	The GARP complex is required for cellular sphingolipid homeostasis. <i>ELife</i> , 2015, 4, .	2.8	88
50	The Erv41â€Erv46 complex serves as a retrograde receptor to retrieve escaped ER proteins. <i>Journal of Cell Biology</i> , 2015, 208, 197-209.	2.3	40
51	Protein Crowding Is a Determinant of Lipid Droplet Protein Composition. <i>Developmental Cell</i> , 2015, 34, 351-363.	3.1	128
52	Rom2-dependent Phosphorylation of Elo2 Controls the Abundance of Very Long-chain Fatty Acids. <i>Journal of Biological Chemistry</i> , 2015, 290, 4238-4247.	1.6	26
53	Stromal cellâ€derived factor 2 is critical for Hsp90-dependent eNOS activation. <i>Science Signaling</i> , 2015, 8, ra81.	1.6	14
54	A role for eisosomes in maintenance of plasma membrane phosphoinositide levels. <i>Molecular Biology of the Cell</i> , 2014, 25, 2797-2806.	0.9	41

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55	Global Proteome Turnover Analyses of the Yeasts <i>S. Cerevisiae</i> and <i>S. Pombe</i> . <i>Cell Reports</i> , 2014, 9, 1959-1965.	2.9	247
56	High confidence proteomic analysis of yeast LDs identifies additional droplet proteins and reveals connections to dolichol synthesis and sterol acetylation. <i>Journal of Lipid Research</i> , 2014, 55, 1465-1477.	2.0	92
57	Lipid droplet biogenesis. <i>Current Opinion in Cell Biology</i> , 2014, 29, 39-45.	2.6	347
58	Mutations disrupting the Kennedy phosphatidylcholine pathway in humans with congenital lipodystrophy and fatty liver disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8901-8906.	3.3	125
59	Arf1/COPI machinery acts directly on lipid droplets and enables their connection to the ER for protein targeting. <i>ELife</i> , 2014, 3, e01607.	2.8	240
60	The biophysics and cell biology of lipid droplets. <i>Nature Reviews Molecular Cell Biology</i> , 2013, 14, 775-786.	16.1	759
61	Balancing the fat: lipid droplets and human disease. <i>EMBO Molecular Medicine</i> , 2013, 5, 973-983.	3.3	367
62	Triacylglycerol Synthesis Enzymes Mediate Lipid Droplet Growth by Relocalizing from the ER to Lipid Droplets. <i>Developmental Cell</i> , 2013, 24, 384-399.	3.1	623
63	Protein Correlation Profiles Identify Lipid Droplet Proteins with High Confidence. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 1115-1126.	2.5	138
64	Secreted Progranulin Is a Homodimer and Is Not a Component of High Density Lipoproteins (HDL). <i>Journal of Biological Chemistry</i> , 2013, 288, 8627-8635.	1.6	24
65	COPI buds 60-nm lipid droplets from reconstituted water-phospholipid-triacylglyceride interfaces, suggesting a tension clamp function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13244-13249.	3.3	146
66	Native SILAC: Metabolic Labeling of Proteins in Prototroph Microorganisms Based on Lysine Synthesis Regulation. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 1995-2005.	2.5	62
67	Cell Biology of Neutral Lipid Storage. <i>FASEB Journal</i> , 2013, 27, 333.1.	0.2	0
68	The Problem of Establishing Relationships between Hepatic Steatosis and Hepatic Insulin Resistance. <i>Cell Metabolism</i> , 2012, 15, 570-573.	7.2	182
69	Lipid Droplets and Cellular Lipid Metabolism. <i>Annual Review of Biochemistry</i> , 2012, 81, 687-714.	5.0	1,264
70	Plasma membrane stress induces relocalization of Slm proteins and activation of TORC2 to promote sphingolipid synthesis. <i>Nature Cell Biology</i> , 2012, 14, 542-547.	4.6	303
71	DGAT1 mutation is linked to a congenital diarrheal disorder. <i>Journal of Clinical Investigation</i> , 2012, 122, 4680-4684.	3.9	127
72	The Cell Biology of Neutral Lipid Synthesis and Storage. <i>FASEB Journal</i> , 2012, 26, .	0.2	0

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73	Phosphatidylcholine Synthesis for Lipid Droplet Expansion Is Mediated by Localized Activation of CTP:Phosphocholine Cytidylyltransferase. <i>Cell Metabolism</i> , 2011, 14, 504-515.	7.2	408
74	A Role for Phosphatidic Acid in the Formation of "Supersized" Lipid Droplets. <i>PLoS Genetics</i> , 2011, 7, e1002201.	1.5	290
75	A plasma-membrane E-MAP reveals links of the eisosome with sphingolipid metabolism and endosomal trafficking. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 901-908.	3.6	93
76	The Endoplasmic Reticulum Enzyme DGAT2 Is Found in Mitochondria-associated Membranes and Has a Mitochondrial Targeting Signal That Promotes Its Association with Mitochondria. <i>Journal of Biological Chemistry</i> , 2009, 284, 5352-5361.	1.6	317
77	TORC2 Plasma Membrane Localization Is Essential for Cell Viability and Restricted to a Distinct Domain. <i>Molecular Biology of the Cell</i> , 2009, 20, 1565-1575.	0.9	176
78	Lipid Droplets Finally Get a Little R-E-S-P-E-C-T. <i>Cell</i> , 2009, 139, 855-860.	13.5	823
79	Global analysis of the yeast osmotic stress response by quantitative proteomics. <i>Molecular BioSystems</i> , 2009, 5, 1337.	2.9	128
80	Functional genomic screen reveals genes involved in lipid-droplet formation and utilization. <i>Nature</i> , 2008, 453, 657-661.	13.7	626
81	Pkh-kinases control eisosome assembly and organization. <i>EMBO Journal</i> , 2007, 26, 4946-4955.	3.5	117
82	Eisosomes mark static sites of endocytosis. <i>Nature</i> , 2006, 439, 998-1003.	13.7	304