Tobias C Walther

List of Publications by Year
in descending order

82	12,723	50276	69250
papers	citations	46 h-index	77 g-index

108	108	108	13548
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The CYTOLD and ERTOLD pathways for lipid dropletâ€“protein targeting. Trends in Biochemical Sciences, 2022, 47, 39-51.	7.5	40
2	Key Factors Governing Initial Stages of Lipid Droplet Formation. Journal of Physical Chemistry B, 2022, 126, 453-462.	2.6	15
3	The Lipid Droplet Knowledge Portal: A resource for systematic analyses of lipid droplet biology. Developmental Cell, 2022, 57, 387-397.e4.	7.0	22
4	Seipin forms a flexible cage at lipid droplet formation sites. Nature Structural and Molecular Biology, 2022, 29, 194-202.	8.2	33
5	Seipin transmembrane segments critically function in triglyceride nucleation and lipid droplet budding from the membrane. ELife, 2022, 11, .	6.0	22
6	The power of two: lessons from a scientific partnership. Journal of Clinical Investigation, 2021, 131, .	8.2	0
7	Combined immunodeficiency due to a mutation in the Î³1 subunit of the coat protein I complex. Journal of Clinical Investigation, 2021, 131, .	8.2	15
8	Conditional targeting of phosphatidylserine decarboxylase to lipid droplets. Biology Open, 2021, 10, .	1.2	10
9	An open-access volume electron microscopy atlas of whole cells and tissues. Nature, 2021, 599, 147-151.	27.8	80
10	Neurotoxic microglia promote TDP-43 proteinopathy in progranulin deficiency. Nature, 2020, 588, 459-465.	27.8	98
11	A Systematic Protein Turnover Map for Decoding Protein Degradation. Cell Reports, 2020, 33, 108378.	6.4	20
12	Determinants of Endoplasmic Reticulum-to-Lipid Droplet Protein Targeting. Developmental Cell, 2020, 54, 471-487.e7.	7.0	42
13	Partitioning of MLX-Family Transcription Factors to Lipid Droplets Regulates Metabolic Gene Expression. Molecular Cell, 2020, 77, 1251-1264.e9.	9.7	78
14	Lipid Droplets in Brown Adipose Tissue Are Dispensable for Cold-Induced Thermogenesis. Cell Reports, 2020, 33, 108348.	6.4	53
15	Structure and catalytic mechanism of a human triacylglycerol-synthesis enzyme. Nature, 2020, 581, 323-328.	27.8	75
16	Inhibition of sphingolipid synthesis improves outcomes and survival in GARP mutant wobbler mice, a model of motor neuron degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10565-10574.	7.1	33
17	FIT2 is an acylâ€“coenzyme A diphosphatase crucial for endoplasmic reticulum homeostasis. Journal of Cell Biology, 2020, 219, .	5.2	37
18	Lowe syndromeâ€“linked endocytic adaptors direct membrane cycling kinetics with OCRL inDictyostelium discoideum. Molecular Biology of the Cell, 2019, 30, 2268-2282.	2.1	2

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19	LDAF1 and Seipin Form a Lipid Droplet Assembly Complex. Developmental Cell, 2019, 51, 551-563.e7.	7.0	152
20	Un-phased: Lipid Droplets Modulate the Bioavailability of Antibiotics. Developmental Cell, 2019, 50, 530-532.	7.0	3
21	Genome wide analysis of 3â€² UTR sequence elements and proteins regulating mRNA stability during maternal-to-zygotic transition in zebrafish. Genome Research, 2019, 29, 1100-1114.	5.5	49
22	Hepatocyte Deletion of Triglycerideâ€Synthesis Enzyme Acyl CoA: Diacylglycerol Acyltransferase 2 Reduces Steatosis Without Increasing Inflammation or Fibrosis in Mice. Hepatology, 2019, 70, 1972-1985.	7.3	75
23	Probing the Global Cellular Responses to Lipotoxicity Caused by Saturated Fatty Acids. Molecular Cell, 2019, 74, 32-44.e8.	9.7	170
24	The triglyceride synthesis enzymes DGAT1 and DGAT2 have distinct and overlapping functions in adipocytes. Journal of Lipid Research, 2019, 60, 1112-1120.	4.2	106
25	Lipidomic Analysis of Î±-Synuclein Neurotoxicity Identifies Stearoyl CoA Desaturase as a Target for Parkinson Treatment. Molecular Cell, 2019, 73, 1001-1014.e8.	9.7	173
26	Murine knockin model for progranulin-deficient frontotemporal dementia with nonsense-mediated mRNA decay. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2849-E2858.	7.1	47
27	Global Analyses of Selective Insulin Resistance in Hepatocytes Caused by Palmitate Lipotoxicity. Molecular and Cellular Proteomics, 2018, 17, 836-849.	3.8	15
28	Functional Contribution of the Spastic Paraplegia-Related Triglyceride Hydrolase DDHD2 to the Formation and Content of Lipid Droplets. Biochemistry, 2018, 57, 827-838.	2.5	41
29	Mechanism and Determinants of Amphipathic Helix-Containing Protein Targeting to Lipid Droplets. Developmental Cell, 2018, 44, 73-86.e4.	7.0	175
30	O1â€01â€02: A NOVEL MURINE KNOCKâ€IN MODEL FOR PROGRANULINâ€DEFICIENT FRONTOTEMPORAL DEMENTIA WITH NONSENSEâ€MEDIATED MRNA DECAY. Alzheimer's and Dementia, 2018, 14, P212.	0.8	0
31	Restoration of Light Sheet Multi-View Data with the Huygens Fusion and Deconvolution Wizard. Microscopy Today, 2018, 26, 12-19.	0.3	6
32	Cryoâ€“electron microscopy structure of the lipid dropletâ€“formation protein seipin. Journal of Cell Biology, 2018, 217, 4080-4091.	5.2	147
33	Progranulin in the hematopoietic compartment protects mice from atherosclerosis. Atherosclerosis, 2018, 277, 145-154.	0.8	20
34	Deciphering the Role of Lipid Droplets in Cardiovascular Disease. Circulation, 2018, 138, 305-315.	1.6	89
35	Rab18 is not necessary for lipid droplet biogenesis or turnover in human mammary carcinoma cells. Molecular Biology of the Cell, 2018, 29, 2045-2054.	2.1	34
36	The unfolded protein response and endoplasmic reticulum protein targeting machineries converge on the stress sensor IRE1. ELife, 2018, 7, .	6.0	71

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37	A Novel Murine Knockâ€in Model for Progranulinâ€deficient Frontotemporal Dementia with Nonsenseâ€mediated mRNA Decay. FASEB Journal, 2018, 32, 807.8.	0.5	0
38	Lipid droplets and liver disease: from basic biology to clinical implications. Nature Reviews Gastroenterology and Hepatology, 2017, 14, 343-355.	17.8	427
39	Identification and characterization of a novel DGAT1 missense mutation associated with congenital diarrhea. Journal of Lipid Research, 2017, 58, 1230-1237.	4.2	44
40	Triglyceride Synthesis by DGAT1 Protects Adipocytes from Lipid-Induced ER Stress during Lipolysis. Cell Metabolism, 2017, 26, 407-418.e3.	16.2	241
41	Lipid Droplet Biogenesis. Annual Review of Cell and Developmental Biology, 2017, 33, 491-510.	9.4	520
42	Mice lacking lipid droplet-associated hydrolase, a gene linked to human prostate cancer, have normal cholesterol ester metabolism. Journal of Lipid Research, 2017, 58, 226-235.	4.2	16
43	The proteome and transcriptome of the infectious metacyclic form of Trypanosoma brucei define quiescent cells primed for mammalian invasion. Molecular Microbiology, 2017, 106, 74-92.	2.5	53
44	Seipin is required for converting nascent to mature lipid droplets. ELife, 2016, 5, .	6.0	292
45	Proteomic and phosphoproteomic analyses of yeast reveal the global cellular response to sphingolipid depletion. Proteomics, 2016, 16, 2759-2763.	2.2	17
46	Targeting Fat: Mechanisms of Protein Localization to Lipid Droplets. Trends in Cell Biology, 2016, 26, 535-546.	7.9	242
47	Lipid droplets go nuclear. Journal of Cell Biology, 2016, 212, 7-8.	5.2	28
48	The leukodystrophy protein FAM126A (hyccin) regulates PtdIns(4)P synthesis at the plasmaÂmembrane. Nature Cell Biology, 2016, 18, 132-138.	10.3	91
49	The GARP complex is required for cellular sphingolipid homeostasis. ELife, 2015, 4, .	6.0	88
50	The Erv41â€“Erv46 complex serves as a retrograde receptor to retrieve escaped ER proteins. Journal of Cell Biology, 2015, 208, 197-209.	5.2	40
51	Protein Crowding Is a Determinant of Lipid Droplet Protein Composition. Developmental Cell, 2015, 34, 351-363.	7.0	128
52	Rom2-dependent Phosphorylation of Elo2 Controls the Abundance of Very Long-chain Fatty Acids. Journal of Biological Chemistry, 2015, 290, 4238-4247.	3.4	26
53	Stromal cellâ€derived factor 2 is critical for Hsp90-dependent eNOS activation. Science Signaling, 2015, 8, ra81.	3.6	14
54	A role for eisosomes in maintenance of plasma membrane phosphoinositide levels. Molecular Biology of the Cell, 2014, 25, 2797-2806.	2.1	41

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55	Global Proteome Turnover Analyses of the Yeasts S.Âcerevisiae and S.Âpombe. Cell Reports, 2014, 9, 1959-1965.	6.4	247
56	High confidence proteomic analysis of yeast LDs identifies additional droplet proteins and reveals connections to dolichol synthesis and sterol acetylation. Journal of Lipid Research, 2014, 55, 1465-1477.	4.2	92
57	Lipid droplet biogenesis. Current Opinion in Cell Biology, 2014, 29, 39-45.	5.4	347
58	Mutations disrupting the Kennedy phosphatidylcholine pathway in humans with congenital lipodystrophy and fatty liver disease. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8901-8906.	7.1	125
59	Arf1/COPI machinery acts directly on lipid droplets and enables their connection to the ER for protein targeting. ELife, 2014, 3, e01607.	6.0	240
60	The biophysics and cell biology of lipid droplets. Nature Reviews Molecular Cell Biology, 2013, 14, 775-786.	37.0	759
61	Balancing the fat: lipid droplets and human disease. EMBO Molecular Medicine, 2013, 5, 973-983.	6.9	367
62	Triacylglycerol Synthesis Enzymes Mediate Lipid Droplet Growth by Relocalizing from the ER to Lipid Droplets. Developmental Cell, 2013, 24, 384-399.	7.0	623
63	Protein Correlation Profiles Identify Lipid Droplet Proteins with High Confidence. Molecular and Cellular Proteomics, 2013, 12, 1115-1126.	3.8	138
64	Secreted Progranulin Is a Homodimer and Is Not a Component of High Density Lipoproteins (HDL). Journal of Biological Chemistry, 2013, 288, 8627-8635.	3.4	24
65	COPI buds 60-nm lipid droplets from reconstituted waterâ€“phospholipidâ€“triacylglyceride interfaces, suggesting a tension clamp function. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13244-13249.	7.1	146
66	Native SILAC: Metabolic Labeling of Proteins in Prototroph Microorganisms Based on Lysine Synthesis Regulation. Molecular and Cellular Proteomics, 2013, 12, 1995-2005.	3.8	62
67	Cell Biology of Neutral Lipid Storage. FASEB Journal, 2013, 27, 333.1.	0.5	0
68	The Problem of Establishing Relationships between Hepatic Steatosis and Hepatic Insulin Resistance. Cell Metabolism, 2012, 15, 570-573.	16.2	182
69	Lipid Droplets and Cellular Lipid Metabolism. Annual Review of Biochemistry, 2012, 81, 687-714.	11.1	1,264
70	Plasma membrane stress induces relocalization of Slm proteins and activation of TORC2 to promote sphingolipid synthesis. Nature Cell Biology, 2012, 14, 542-547.	10.3	303
71	DGAT1 mutation is linked to a congenital diarrheal disorder. Journal of Clinical Investigation, 2012, 122, 4680-4684.	8.2	127
72	The Cell Biology of Neutral Lipid Synthesis and Storage. FASEB Journal, 2012, 26, .	0.5	0

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73	Phosphatidylcholine Synthesis for Lipid Droplet Expansion Is Mediated by Localized Activation of CTP:Phosphocholine Cytidylyltransferase. Cell Metabolism, 2011, 14, 504-515.	16.2	408
74	A Role for Phosphatidic Acid in the Formation of â€œSupersizedâ€•Lipid Droplets. PLoS Genetics, 2011, 7, e1002201.	3.5	290
75	A plasma-membrane E-MAP reveals links of the eisosome with sphingolipid metabolism and endosomal trafficking. Nature Structural and Molecular Biology, 2010, 17, 901-908.	8.2	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. Journal of Biological Chemistry, 2009, 284, 5352-5361.	3.4	317
77	TORC2 Plasma Membrane Localization Is Essential for Cell Viability and Restricted to a Distinct Domain. Molecular Biology of the Cell, 2009, 20, 1565-1575.	2.1	176
78	Lipid Droplets Finally Get a Little R-E-S-P-E-C-T. Cell, 2009, 139, 855-860.	28.9	823
79	Global analysis of the yeast osmotic stress response by quantitative proteomics. Molecular BioSystems, 2009, 5, 1337.	2.9	128
80	Functional genomic screen reveals genes involved in lipid-droplet formation and utilization. Nature, 2008, 453, 657-661.	27.8	626
81	Pkh-kinases control eisosome assembly and organization. EMBO Journal, 2007, 26, 4946-4955.	7.8	117
82	Eisosomes mark static sites of endocytosis. Nature, 2006, 439, 998-1003.	27.8	304