

Hongyuan Yang

List of Publications by Year in descending order

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117
papers

8,653
citations

38742

50
h-index

48315

88
g-index

120
all docs

120
docs citations

120
times ranked

9042
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms and regulation of cholesterol homeostasis. <i>Nature Reviews Molecular Cell Biology</i> , 2020, 21, 225-245.	37.0	899
2	Fld1p, a functional homologue of human seipin, regulates the size of lipid droplets in yeast. <i>Journal of Cell Biology</i> , 2008, 180, 473-482.	5.2	411
3	Cholesterol Transport through Lysosome-Peroxisome Membrane Contacts. <i>Cell</i> , 2015, 161, 291-306.	28.9	314
4	A Role for Phosphatidic Acid in the Formation of "Supersized" Lipid Droplets. <i>PLoS Genetics</i> , 2011, 7, e1002201.	3.5	290
5	Fsp27 promotes lipid droplet growth by lipid exchange and transfer at lipid droplet contact sites. <i>Journal of Cell Biology</i> , 2011, 195, 953-963.	5.2	273
6	A role for oxysterol-binding protein-related protein 5 in endosomal cholesterol trafficking. <i>Journal of Cell Biology</i> , 2011, 192, 121-135.	5.2	270
7	Up-Regulation of Mitochondrial Activity and Acquirement of Brown Adipose Tissue-Like Property in the White Adipose Tissue of Fsp27 Deficient Mice. <i>PLoS ONE</i> , 2008, 3, e2890.	2.5	223
8	Perilipin1 promotes unilocular lipid droplet formation through the activation of Fsp27 in adipocytes. <i>Nature Communications</i> , 2013, 4, 1594.	12.8	200
9	Rab18 promotes lipid droplet (LD) growth by tethering the ER to LDs through SNARE and NRZ interactions. <i>Journal of Cell Biology</i> , 2018, 217, 975-995.	5.2	164
10	Controlling the size of lipid droplets: lipid and protein factors. <i>Current Opinion in Cell Biology</i> , 2012, 24, 509-516.	5.4	161
11	Human SEIPIN Binds Anionic Phospholipids. <i>Developmental Cell</i> , 2018, 47, 248-256.e4.	7.0	159
12	Conditions of endoplasmic reticulum stress stimulate lipid droplet formation in <i>Saccharomyces cerevisiae</i> . <i>Biochemical Journal</i> , 2009, 424, 61-67.	3.7	156
13	Seipin ablation in mice results in severe generalized lipodystrophy. <i>Human Molecular Genetics</i> , 2011, 20, 3022-3030.	2.9	152
14	ORP5 and ORP8 bind phosphatidylinositol-4, 5-biphosphate (PtdIns(4,5)P ₂) and regulate its level at the plasma membrane. <i>Nature Communications</i> , 2017, 8, 757.	12.8	150
15	SEIPIN Regulates Lipid Droplet Expansion and Adipocyte Development by Modulating the Activity of Glycerol-3-phosphate Acyltransferase. <i>Cell Reports</i> , 2016, 17, 1546-1559.	6.4	148
16	ORP2 Delivers Cholesterol to the Plasma Membrane in Exchange for Phosphatidylinositol 4, 5-Bisphosphate (PI(4,5)P ₂). <i>Molecular Cell</i> , 2019, 73, 458-473.e7.	9.7	143
17	Human Multidrug Resistance Associated Protein 4 Confers Resistance to Camptothecins. <i>Pharmaceutical Research</i> , 2005, 22, 1837-1853.	3.5	127
18	Tissue-Autonomous Function of Drosophila Seipin in Preventing Ectopic Lipid Droplet Formation. <i>PLoS Genetics</i> , 2011, 7, e1001364.	3.5	121

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19	Schizosaccharomyces pombe Cells Deficient in Triacylglycerols Synthesis Undergo Apoptosis upon Entry into the Stationary Phase. <i>Journal of Biological Chemistry</i> , 2003, 278, 47145-47155.	3.4	116
20	Toward one step analysis of cellular lipidomes using liquid chromatography coupled with mass spectrometry: application to <i>Saccharomyces cerevisiae</i> and <i>Schizosaccharomyces pombe</i> lipidomics. <i>Molecular BioSystems</i> , 2010, 6, 1008.	2.9	111
21	Structure of Osh3 Reveals a Conserved Mode of Phosphoinositide Binding in Oxysterol-Binding Proteins. <i>Structure</i> , 2013, 21, 1203-1213.	3.3	111
22	Intracellular Cholesterol Transport by Sterol Transfer Proteins at Membrane Contact Sites. <i>Trends in Biochemical Sciences</i> , 2019, 44, 273-292.	7.5	109
23	Structural Basis of Low-pH-Dependent Lysosomal Cholesterol Egress by NPC1 and NPC2. <i>Cell</i> , 2020, 182, 98-111.e18.	28.9	107
24	Monitoring of immune responses to a herbal immuno-modulator in patients with advanced colorectal cancer. <i>International Immunopharmacology</i> , 2006, 6, 499-508.	3.8	105
25	The biogenesis of lipid droplets: Lipids take center stage. <i>Progress in Lipid Research</i> , 2019, 75, 100989.	11.6	104
26	Identification of the major functional proteins of prokaryotic lipid droplets. <i>Journal of Lipid Research</i> , 2012, 53, 399-411.	4.2	103
27	Vps20p and Vta1p interact with Vps4p and function in multivesicular body sorting and endosomal transport in <i>Saccharomyces cerevisiae</i> . <i>Journal of Cell Science</i> , 2003, 116, 3957-3970.	2.0	101
28	TMEM41B and VMP1 are scramblases and regulate the distribution of cholesterol and phosphatidylserine. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	100
29	Rab8a-AS160-MSS4 Regulatory Circuit Controls Lipid Droplet Fusion and Growth. <i>Developmental Cell</i> , 2014, 30, 378-393.	7.0	98
30	Routes and mechanisms of post-endosomal cholesterol trafficking: A story that never ends. <i>Traffic</i> , 2017, 18, 209-217.	2.7	91
31	Seipin, adipogenesis and lipid droplets. <i>Trends in Endocrinology and Metabolism</i> , 2011, 22, 204-210.	7.1	90
32	Insulin resistance and white adipose tissue inflammation are uncoupled in energetically challenged Fsp27-deficient mice. <i>Nature Communications</i> , 2015, 6, 5949.	12.8	87
33	TMAVA, a Metabolite of Intestinal Microbes, Is Increased in Plasma From Patients With Liver Steatosis, Inhibits ¹³ C-Butyrobetaine Hydroxylase, and Exacerbates Fatty Liver in Mice. <i>Gastroenterology</i> , 2020, 158, 2266-2281.e27.	1.3	87
34	A Mechanistic Study of the Intestinal Absorption of Cryptotanshinone, the Major Active Constituent of <i>Salvia miltiorrhiza</i> . <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 317, 1285-1294.	2.5	86
35	Adipose-Specific Knockout of <i>Seipin/Bscl2</i> Results in Progressive Lipodystrophy. <i>Diabetes</i> , 2014, 63, 2320-2331.	0.6	84
36	Dynamic transcriptome changes during adipose tissue energy expenditure reveal critical roles for long noncoding RNA regulators. <i>PLoS Biology</i> , 2017, 15, e2002176.	5.6	81

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37	Molecular characterization of seipin and its mutants: implications for seipin in triacylglycerol synthesis. <i>Journal of Lipid Research</i> , 2011, 52, 2136-2147.	4.2	77
38	Positive and negative regulation of a sterol biosynthetic gene (ERG3) in the post-squalene portion of the yeast ergosterol pathway. <i>FEBS Letters</i> , 1996, 392, 161-165.	2.8	75
39	Topotecan Is a Substrate for Multidrug Resistance Associated Protein 4. <i>Current Drug Metabolism</i> , 2006, 7, 105-118.	1.2	75
40	ORP5 localizes to ERâ€œlipid droplet contacts and regulates the level of PI(4)P on lipid droplets. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	75
41	Allosteric enhancement of ORP1-mediated cholesterol transport by PI(4,5)P2/PI(3,4)P2. <i>Nature Communications</i> , 2019, 10, 829.	12.8	73
42	Antitumor Activity and Underlying Mechanisms of Ganopoly, The Refined Polysaccharides Extracted from <i>Ganoderma Lucidum</i> , in Mice. <i>Immunological Investigations</i> , 2005, 34, 171-198.	2.0	68
43	Structural basis for catalysis and substrate specificity of human ACAT1. <i>Nature</i> , 2020, 581, 333-338.	27.8	66
44	Identification of a 26S Proteasome-Associated UCH in Fission Yeast. <i>Biochemical and Biophysical Research Communications</i> , 2000, 272, 270-275.	2.1	64
45	Lack of testicular seipin causes teratozoospermia syndrome in men. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7054-7059.	7.1	63
46	AAA ATPases regulate membrane association of yeast oxysterol binding proteins and sterol metabolism. <i>EMBO Journal</i> , 2005, 24, 2989-2999.	7.8	57
47	Functional Expression of a cDNA to Human Acyl-coenzyme A:Cholesterol Acyltransferase in Yeast. <i>Journal of Biological Chemistry</i> , 1997, 272, 3980-3985.	3.4	56
48	The redox regulation of intermediary metabolism by a superoxide-aconitase rheostat. <i>BioEssays</i> , 2004, 26, 894-900.	2.5	55
49	ABCA1 gene polymorphisms and their associations with coronary artery disease and plasma lipids in males from three ethnic populations in Singapore. <i>Human Genetics</i> , 2003, 113, 106-117.	3.8	53
50	Seipin accumulates and traps diacylglycerols and triglycerides in its ring-like structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	52
51	Antitumor Activity and Underlying Mechanisms of Ganopoly, The Refined Polysaccharides Extracted from <i>Ganoderma Lucidum</i> , in Mice. <i>Immunological Investigations</i> , 2005, 34, 171-198.	2.0	51
52	Genome-Wide Analysis of Sterol-Lipid Storage and Trafficking in <i>Saccharomyces cerevisiae</i> . <i>Eukaryotic Cell</i> , 2008, 7, 401-414.	3.4	50
53	Changes in reactive oxygen species begin early during replicative aging of <i>Saccharomyces cerevisiae</i> cells. <i>Free Radical Biology and Medicine</i> , 2011, 50, 963-970.	2.9	50
54	Novel mechanisms of intracellular cholesterol transport: oxysterol-binding proteins and membrane contact sites. <i>Current Opinion in Cell Biology</i> , 2015, 35, 37-42.	5.4	49

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55	Smooth muscle SIRT1 reprograms endothelial cells to suppress angiogenesis after ischemia. <i>Theranostics</i> , 2020, 10, 1197-1212.	10.0	48
56	Cytochrome bc1 Regulates the Mitochondrial Permeability Transition by Two Distinct Pathways. <i>Journal of Biological Chemistry</i> , 2004, 279, 50420-50428.	3.4	47
57	GPAT3 deficiency alleviates insulin resistance and hepatic steatosis in a mouse model of severe congenital generalized lipodystrophy. <i>Human Molecular Genetics</i> , 2020, 29, 432-443.	2.9	47
58	Cysteine Starvation Activates the Redox-Dependent Mitochondrial Permeability Transition in Retinal Pigment Epithelial Cells. , 2004, 45, 4183.		45
59	An Essential Role of Hrs/Vps27 in Endosomal Cholesterol Trafficking. <i>Cell Reports</i> , 2012, 1, 29-35.	6.4	45
60	A structure of human Scap bound to Insig-2 suggests how their interaction is regulated by sterols. <i>Science</i> , 2021, 371, .	12.6	44
61	The size and phospholipid composition of lipid droplets can influence their proteome. <i>Biochemical and Biophysical Research Communications</i> , 2011, 415, 455-462.	2.1	43
62	Accumulation of squalene is associated with the clustering of lipid droplets. <i>FEBS Journal</i> , 2012, 279, 4231-4244.	4.7	43
63	Translocation Efficiency, Susceptibility to Proteasomal Degradation, and Lipid Responsiveness of Apolipoprotein B Are Determined by the Presence of β 2 Sheet Domains. <i>Journal of Biological Chemistry</i> , 1998, 273, 35216-35221.	3.4	41
64	CDP-diacylglycerol synthases regulate the growth of lipid droplets and adipocyte development. <i>Journal of Lipid Research</i> , 2016, 57, 767-780.	4.2	41
65	St. John's Wort Modulates the Toxicities and Pharmacokinetics of CPT-11 (Irinotecan) in Rats. <i>Pharmaceutical Research</i> , 2005, 22, 902-914.	3.5	40
66	Caspase-dependent and -independent lipotoxic cell-death pathways in fission yeast. <i>Journal of Cell Science</i> , 2008, 121, 2671-2684.	2.0	39
67	High doses of simvastatin upregulate dopamine D1 and D2 receptor expression in the rat prefrontal cortex: possible involvement of endothelial nitric oxide synthase. <i>British Journal of Pharmacology</i> , 2005, 144, 933-939.	5.4	38
68	Sulphite oxidase gene expression in human brain and in other human and rat tissues. <i>Biochemical and Biophysical Research Communications</i> , 2003, 305, 619-623.	2.1	35
69	Apoptosis and lipoapoptosis in the fission yeast. <i>FEMS Yeast Research</i> , 2005, 5, 1199-1206.	2.3	34
70	Nonvesicular sterol transport: two protein families and a sterol sensor?. <i>Trends in Cell Biology</i> , 2006, 16, 427-432.	7.9	34
71	Different kinetics of cholesterol delivery to components of the cholesterol homeostatic machinery: Implications for cholesterol trafficking to the endoplasmic reticulum. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2008, 1781, 724-730.	2.4	34
72	Characterization of Substrate Preference for Slc1p and Cst26p in <i>Saccharomyces cerevisiae</i> Using Lipidomic Approaches and an LPAAT Activity Assay. <i>PLoS ONE</i> , 2010, 5, e11956.	2.5	34

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73	Molecular characterization of Osh6p, an oxysterol binding protein homolog in the yeast <i>Saccharomyces cerevisiae</i> . <i>FEBS Journal</i> , 2005, 272, 4703-4715.	4.7	33
74	The role of oxysterol-binding protein and its related proteins in cancer. <i>Seminars in Cell and Developmental Biology</i> , 2018, 81, 149-153.	5.0	32
75	Enhanced acyl-CoA:cholesterol acyltransferase activity increases cholesterol levels on the lipid droplet surface and impairs adipocyte function. <i>Journal of Biological Chemistry</i> , 2019, 294, 19306-19321.	3.4	32
76	Ncr1p, the Yeast Ortholog of Mammalian Niemann Pick C1 Protein, is Dispensable for Endocytic Transport. <i>Traffic</i> , 2004, 5, 1017-1030.	2.7	31
77	Overexpression of a short human seipin/BSCL2 isoform in mouse adipose tissue results in mild lipodystrophy. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 302, E705-E713.	3.5	31
78	Association of CETP Taq1B and -629Câ€%>â€%A polymorphisms with coronary artery disease and lipid levels in the multi-ethnic Singaporean population. <i>Lipids in Health and Disease</i> , 2013, 12, 85.	3.0	31
79	Lipid Raft-dependent Endocytosis of Close Homolog of Adhesion Molecule L1 (CHL1) Promotes Neurogenesis. <i>Journal of Biological Chemistry</i> , 2012, 287, 44447-44463.	3.4	28
80	The <sc>AAA ATPase VPS4</sc>/<sc>SKD1</sc> Regulates Endosomal Cholesterol Trafficking Independently of <sc>ESCRTâ€III</sc>. <i>Traffic</i> , 2013, 14, 107-119.	2.7	27
81	Lipid droplet growth and adipocyte development: mechanistically distinct processes connected by phospholipids. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2017, 1862, 1273-1283.	2.4	25
82	Oxysterol-binding proteinâ€related protein 5 (ORP5) promotes cell proliferation by activation of mTORC1 signaling. <i>Journal of Biological Chemistry</i> , 2018, 293, 3806-3818.	3.4	24
83	Identification of two proteins, S14 and UIP1, that interact with UCH37. <i>FEBS Letters</i> , 2001, 488, 201-205.	2.8	23
84	Programmed cell death in fission yeast <i>Schizosaccharomyces pombe</i> . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 1335-1349.	4.1	23
85	Retinyl esters form lipid droplets independently of triacylglycerol and seipin. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	22
86	DFCP1 associates with lipid droplets. <i>Cell Biology International</i> , 2019, 43, 1492-1504.	3.0	21
87	Adipose tissue deficiency results in severe hyperlipidemia and atherosclerosis in the low-density lipoprotein receptor knockout mice. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 410-418.	2.4	20
88	CDP-DAG synthase 1 and 2 regulate lipid droplet growth through distinct mechanisms. <i>Journal of Biological Chemistry</i> , 2019, 294, 16740-16755.	3.4	20
89	Prediction of herb-drug metabolic interactions: a simulation study. <i>Phytotherapy Research</i> , 2005, 19, 464-471.	5.8	19
90	Endosomal cholesterol trafficking: protein factors at a glance. <i>Acta Biochimica Et Biophysica Sinica</i> , 2013, 45, 11-17.	2.0	19

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91	TMEM41B and VMP1 are phospholipid scramblases. <i>Autophagy</i> , 2021, 17, 2048-2050.	9.1	18
92	VPS13: A lipid transfer protein making contacts at multiple cellular locations. <i>Journal of Cell Biology</i> , 2018, 217, 3322-3324.	5.2	17
93	AGPAT2 interaction with CDP-diacylglycerol synthases promotes the flux of fatty acids through the CDP-diacylglycerol pathway. <i>Nature Communications</i> , 2021, 12, 6877.	12.8	17
94	ApoC2 deficiency elicits severe hypertriglyceridemia and spontaneous atherosclerosis: A rodent model rescued from neonatal death. <i>Metabolism: Clinical and Experimental</i> , 2020, 109, 154296.	3.4	16
95	Maintenance of Mitochondrial Morphology by Autophagy and Its Role in High Glucose Effects on Chronological Lifespan of <i>Saccharomyces cerevisiae</i> . <i>Oxidative Medicine and Cellular Longevity</i> , 2013, 2013, 1-13.	4.0	14
96	Akt activation increases cellular cholesterol by promoting the proteasomal degradation of Niemann-Pick C1. <i>Biochemical Journal</i> , 2015, 471, 243-253.	3.7	14
97	Molecular cloning and biochemical characterization of <i>Candida albicans</i> acyl-CoA:sterol acyltransferase, a potential target of antifungal agents. <i>Biochemical and Biophysical Research Communications</i> , 2004, 319, 911-919.	2.1	13
98	The last five amino acid residues at the C-terminus of PRK1/PKN is essential for full lipid responsiveness. <i>Cellular Signalling</i> , 2005, 17, 1084-1097.	3.6	12
99	Acyl-CoA: cholesterol acyltransferase-2 gene polymorphisms and their association with plasma lipids and coronary artery disease risks. <i>Human Genetics</i> , 2005, 118, 393-403.	3.8	11
100	CRISPR/Cas9-Mediated Generation of Niemann-Pick C1 Knockout Cell Line. <i>Methods in Molecular Biology</i> , 2017, 1583, 73-83.	0.9	11
101	Integrative analyses of translome and transcriptome reveal important translational controls in brown and white adipose regulated by microRNAs. <i>Scientific Reports</i> , 2017, 7, 5681.	3.3	10
102	Identification of gene products that control lipid droplet size in yeast using a high-throughput quantitative image analysis. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 113-127.	2.4	10
103	Genome-Wide Screens for Gene Products Regulating Lipid Droplet Dynamics. <i>Methods in Cell Biology</i> , 2012, 108, 303-316.	1.1	9
104	The expression of SEIPIN in the mouse central nervous system. <i>Brain Structure and Function</i> , 2016, 221, 4111-4127.	2.3	8
105	Hepatic CDP-diacylglycerol synthase 2 deficiency causes mitochondrial dysfunction and promotes rapid progression of NASH and fibrosis. <i>Science Bulletin</i> , 2022, 67, 299-314.	9.0	8
106	Human Multidrug Resistance Associated Protein 4 Confers Resistance to Camptothecins. <i>Pharmaceutical Research</i> , 2005, 22, 1837.	3.5	6
107	Surgical fat removal exacerbates metabolic disorders but not atherogenesis in LDLR ^{-/-} mice fed on high-fat diet. <i>Scientific Reports</i> , 2019, 9, 17848.	3.3	5
108	Extended synaptotagmins, peroxisome-endoplasmic reticulum contact and cholesterol transport. <i>Science China Life Sciences</i> , 2019, 62, 1266-1269.	4.9	4

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109	Seipin regulates the formation of nuclear lipid droplets from a distance. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	3
110	Idol Depletion Protects against Spontaneous Atherosclerosis in a Hamster Model of Familial Hypercholesterolemia. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-14.	4.0	3
111	ORP1L, ORP1S, and ORP2: Lipid Sensors and Transporters. <i>Contact (Thousand Oaks (Ventura County, CA))</i> 10, 1-3. DOI: 10.1002/cntc.12078	0.784314	2
112	Elevated HBa€EGF expression in neural stem cells causes middle age obesity by suppressing Hypocretin/Orexin expression. <i>FASEB Journal</i> , 2021, 35, e21345.	0.5	2
113	Sterol-binding proteins and endosomal cholesterol transport. <i>Frontiers in Biology</i> , 2011, 6, 190.	0.7	1
114	Functional characterization of two single nucleotide polymorphisms of acyl-coenzyme A:cholesterol acyltransferase 2. <i>Gene</i> , 2015, 566, 236-241.	2.2	1
115	Triacylglycerol Measurement in HeLa Cells. <i>Bio-protocol</i> , 2020, 10, e3852.	0.4	1
116	Preface. <i>Methods in Cell Biology</i> , 2013, 116, xiii.	1.1	0
117	Structure and function of lipid droplets. , 2021, , 357-394.		0