

# Hongyuan Yang

## List of Publications by Citations

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116  
papers

6,180  
citations

44  
h-index

76  
g-index

120  
ext. papers

7,493  
ext. citations

8.4  
avg, IF

6.01  
L-index

#	Paper	IF	Citations
116	Fld1p, a functional homologue of human seipin, regulates the size of lipid droplets in yeast. <i>Journal of Cell Biology</i> , <b>2008</b> , 180, 473-82	7.3	346
115	Mechanisms and regulation of cholesterol homeostasis. <i>Nature Reviews Molecular Cell Biology</i> , <b>2020</b> , 21, 225-245	48.7	315
114	A role for phosphatidic acid in the formation of "supersized" lipid droplets. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1002201	20.1	235
113	A role for oxysterol-binding protein-related protein 5 in endosomal cholesterol trafficking. <i>Journal of Cell Biology</i> , <b>2011</b> , 192, 121-35	7.3	227
112	Fsp27 promotes lipid droplet growth by lipid exchange and transfer at lipid droplet contact sites. <i>Journal of Cell Biology</i> , <b>2011</b> , 195, 953-63	7.3	226
111	Cholesterol transport through lysosome-peroxisome membrane contacts. <i>Cell</i> , <b>2015</b> , 161, 291-306	56.2	221
110	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> , <b>2008</b> , 3, e2890	3.7	189
109	Perilipin1 promotes unilocular lipid droplet formation through the activation of Fsp27 in adipocytes. <i>Nature Communications</i> , <b>2013</b> , 4, 1594	17.4	153
108	Controlling the size of lipid droplets: lipid and protein factors. <i>Current Opinion in Cell Biology</i> , <b>2012</b> , 24, 509-16	9	136
107	Conditions of endoplasmic reticulum stress stimulate lipid droplet formation in <i>Saccharomyces cerevisiae</i> . <i>Biochemical Journal</i> , <b>2009</b> , 424, 61-7	3.8	128
106	Seipin ablation in mice results in severe generalized lipodystrophy. <i>Human Molecular Genetics</i> , <b>2011</b> , 20, 3022-30	5.6	124
105	ORP5 and ORP8 bind phosphatidylinositol-4, 5-biphosphate (PtdIns(4,5)P) and regulate its level at the plasma membrane. <i>Nature Communications</i> , <b>2017</b> , 8, 757	17.4	117
104	Human multidrug resistance associated protein 4 confers resistance to camptothecins. <i>Pharmaceutical Research</i> , <b>2005</b> , 22, 1837-53	4.5	117
103	SEIPIN Regulates Lipid Droplet Expansion and Adipocyte Development by Modulating the Activity of Glycerol-3-phosphate Acyltransferase. <i>Cell Reports</i> , <b>2016</b> , 17, 1546-1559	10.6	114
102	Tissue-autonomous function of <i>Drosophila</i> seipin in preventing ectopic lipid droplet formation. <i>PLoS Genetics</i> , <b>2011</b> , 7, e1001364	6	107
101	Human SEIPIN Binds Anionic Phospholipids. <i>Developmental Cell</i> , <b>2018</b> , 47, 248-256.e4	10.2	107
100	Rab18 promotes lipid droplet (LD) growth by tethering the ER to LDs through SNARE and NRZ interactions. <i>Journal of Cell Biology</i> , <b>2018</b> , 217, 975-995	7.3	102

99	Structure of Osh3 reveals a conserved mode of phosphoinositide binding in oxysterol-binding proteins. <i>Structure</i> , <b>2013</b> , 21, 1203-13	5.2	101
98	Schizosaccharomyces pombe cells deficient in triacylglycerols synthesis undergo apoptosis upon entry into the stationary phase. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 47145-55	5.4	97
97	Toward one step analysis of cellular lipidomes using liquid chromatography coupled with mass spectrometry: application to Saccharomyces cerevisiae and Schizosaccharomyces pombe lipidomics. <i>Molecular BioSystems</i> , <b>2010</b> , 6, 1008-17		96
96	ORP2 Delivers Cholesterol to the Plasma Membrane in Exchange for Phosphatidylinositol 4, 5-Bisphosphate (PI(4,5)P). <i>Molecular Cell</i> , <b>2019</b> , 73, 458-473.e7	17.6	89
95	Identification of the major functional proteins of prokaryotic lipid droplets. <i>Journal of Lipid Research</i> , <b>2012</b> , 53, 399-411	6.3	86
94	Vps20p and Vta1p interact with Vps4p and function in multivesicular body sorting and endosomal transport in Saccharomyces cerevisiae. <i>Journal of Cell Science</i> , <b>2003</b> , 116, 3957-70	5.3	85
93	Seipin, adipogenesis and lipid droplets. <i>Trends in Endocrinology and Metabolism</i> , <b>2011</b> , 22, 204-10	8.8	81
92	A mechanistic study of the intestinal absorption of cryptotanshinone, the major active constituent of Salvia miltiorrhiza. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2006</b> , 317, 1285-94	4.7	80
91	Monitoring of immune responses to a herbal immuno-modulator in patients with advanced colorectal cancer. <i>International Immunopharmacology</i> , <b>2006</b> , 6, 499-508	5.8	77
90	Rab8a-AS160-MSS4 regulatory circuit controls lipid droplet fusion and growth. <i>Developmental Cell</i> , <b>2014</b> , 30, 378-93	10.2	76
89	Adipose-specific knockout of SEIPIN/BSCL2 results in progressive lipodystrophy. <i>Diabetes</i> , <b>2014</b> , 63, 2320-31	9.1	74
88	Intracellular Cholesterol Transport by Sterol Transfer Proteins at Membrane Contact Sites. <i>Trends in Biochemical Sciences</i> , <b>2019</b> , 44, 273-292	10.3	64
87	Molecular characterization of seipin and its mutants: implications for seipin in triacylglycerol synthesis. <i>Journal of Lipid Research</i> , <b>2011</b> , 52, 2136-2147	6.3	63
86	Antitumor Activity and Underlying Mechanisms of Ganopoly, The Refined Polysaccharides Extracted from Ganoderma Lucidum, in Mice. <i>Immunological Investigations</i> , <b>2005</b> , 34, 171-198	2.9	62
85	Routes and mechanisms of post-endosomal cholesterol trafficking: A story that never ends. <i>Traffic</i> , <b>2017</b> , 18, 209-217	5.7	61
84	Insulin resistance and white adipose tissue inflammation are uncoupled in energetically challenged Fsp27-deficient mice. <i>Nature Communications</i> , <b>2015</b> , 6, 5949	17.4	61
83	The biogenesis of lipid droplets: Lipids take center stage. <i>Progress in Lipid Research</i> , <b>2019</b> , 75, 100989	14.3	60
82	Topotecan is a substrate for multidrug resistance associated protein 4. <i>Current Drug Metabolism</i> , <b>2006</b> , 7, 105-18	3.5	60

81	Positive and negative regulation of a sterol biosynthetic gene (ERG3) in the post-squalene portion of the yeast ergosterol pathway. <i>FEBS Letters</i> , <b>1996</b> , 392, 161-5	3.8	60
80	Identification of a 26S proteasome-associated UCH in fission yeast. <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 272, 270-5	3.4	58
79	AAA ATPases regulate membrane association of yeast oxysterol binding proteins and sterol metabolism. <i>EMBO Journal</i> , <b>2005</b> , 24, 2989-99	13	54
78	Functional expression of a cDNA to human acyl-coenzyme A:cholesterol acyltransferase in yeast. Species-dependent substrate specificity and inhibitor sensitivity. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 3980-5	5.4	51
77	Allosteric enhancement of ORP1-mediated cholesterol transport by PI(4,5)P/PI(3,4)P. <i>Nature Communications</i> , <b>2019</b> , 10, 829	17.4	51
76	The redox regulation of intermediary metabolism by a superoxide-aconitase rheostat. <i>BioEssays</i> , <b>2004</b> , 26, 894-900	4.1	49
75	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> , <b>2003</b> , 113, 106-17	6.3	49
74	Lack of testicular seipin causes teratozoospermia syndrome in men. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 7054-9	11.5	47
73	Genome-wide analysis of sterol-lipid storage and trafficking in <i>Saccharomyces cerevisiae</i> . <i>Eukaryotic Cell</i> , <b>2008</b> , 7, 401-14		45
72	Structural Basis of Low-pH-Dependent Lysosomal Cholesterol Egress by NPC1 and NPC2. <i>Cell</i> , <b>2020</b> , 182, 98-111.e18	56.2	44
71	Changes in reactive oxygen species begin early during replicative aging of <i>Saccharomyces cerevisiae</i> cells. <i>Free Radical Biology and Medicine</i> , <b>2011</b> , 50, 963-70	7.8	44
70	Cytochrome bc(1) regulates the mitochondrial permeability transition by two distinct pathways. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 50420-8	5.4	44
69	Cysteine starvation activates the redox-dependent mitochondrial permeability transition in retinal pigment epithelial cells. <i>Investigative Ophthalmology and Visual Science</i> , <b>2004</b> , 45, 4183-9		41
68	Dynamic transcriptome changes during adipose tissue energy expenditure reveal critical roles for long noncoding RNA regulators. <i>PLoS Biology</i> , <b>2017</b> , 15, e2002176	9.7	41
67	ORP5 localizes to ER-lipid droplet contacts and regulates the level of PI(4)P on lipid droplets. <i>Journal of Cell Biology</i> , <b>2020</b> , 219,	7.3	41
66	An essential role of Hrs/Vps27 in endosomal cholesterol trafficking. <i>Cell Reports</i> , <b>2012</b> , 1, 29-35	10.6	40
65	Translocation efficiency, susceptibility to proteasomal degradation, and lipid responsiveness of apolipoprotein B are determined by the presence of beta sheet domains. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 35216-21	5.4	40
64	Novel mechanisms of intracellular cholesterol transport: oxysterol-binding proteins and membrane contact sites. <i>Current Opinion in Cell Biology</i> , <b>2015</b> , 35, 37-42	9	38

63	TMAVA, a Metabolite of Intestinal Microbes, Is Increased in Plasma From Patients With Liver Steatosis, Inhibits $\beta$ Butyrobetaine Hydroxylase, and Exacerbates Fatty Liver in Mice. <i>Gastroenterology</i> , <b>2020</b> , 158, 2266-2281.e27	13.3	37
62	Caspase-dependent and -independent lipotoxic cell-death pathways in fission yeast. <i>Journal of Cell Science</i> , <b>2008</b> , 121, 2671-84	5.3	36
61	St. John's Wort modulates the toxicities and pharmacokinetics of CPT-11 (irinotecan) in rats. <i>Pharmaceutical Research</i> , <b>2005</b> , 22, 902-14	4.5	36
60	Accumulation of squalene is associated with the clustering of lipid droplets. <i>FEBS Journal</i> , <b>2012</b> , 279, 4231-44	5.7	35
59	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> , <b>2005</b> , 144, 933-9	8.6	33
58	The size and phospholipid composition of lipid droplets can influence their proteome. <i>Biochemical and Biophysical Research Communications</i> , <b>2011</b> , 415, 455-62	3.4	32
57	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> , <b>2010</b> , 5, e11956	3.7	32
56	Nonvesicular sterol transport: two protein families and a sterol sensor?. <i>Trends in Cell Biology</i> , <b>2006</b> , 16, 427-32	18.3	32
55	TMEM41B and VMP1 are scramblases and regulate the distribution of cholesterol and phosphatidylserine. <i>Journal of Cell Biology</i> , <b>2021</b> , 220,	7.3	32
54	Sulphite oxidase gene expression in human brain and in other human and rat tissues. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 305, 619-23	3.4	31
53	Apoptosis and lipoapoptosis in the fission yeast <i>Schizosaccharomyces pombe</i> . <i>FEMS Yeast Research</i> , <b>2005</b> , 5, 1199-206	3.1	31
52	Molecular characterization of Osh6p, an oxysterol binding protein homolog in the yeast <i>Saccharomyces cerevisiae</i> . <i>FEBS Journal</i> , <b>2005</b> , 272, 4703-15	5.7	30
51	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> , <b>2012</b> , 302, E705-13	6	29
50	CDP-diacylglycerol synthases regulate the growth of lipid droplets and adipocyte development. <i>Journal of Lipid Research</i> , <b>2016</b> , 57, 767-80	6.3	27
49	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> , <b>2008</b> , 1781, 724-30	5	27
48	Antitumor Activity and Underlying Mechanisms of Ganopoly, The Refined Polysaccharides Extracted from <i>Ganoderma lucidum</i> , in Mice. <i>Immunological Investigations</i> , <b>2005</b> , 34, 171-198	2.9	27
47	GPAT3 deficiency alleviates insulin resistance and hepatic steatosis in a mouse model of severe congenital generalized lipodystrophy. <i>Human Molecular Genetics</i> , <b>2020</b> , 29, 432-443	5.6	27
46	Structural basis for catalysis and substrate specificity of human ACAT1. <i>Nature</i> , <b>2020</b> , 581, 333-338	50.4	26

45	Ncr1p, the yeast ortholog of mammalian Niemann Pick C1 protein, is dispensable for endocytic transport. <i>Traffic</i> , <b>2004</b> , 5, 1017-30	5.7	24
44	The role of oxysterol-binding protein and its related proteins in cancer. <i>Seminars in Cell and Developmental Biology</i> , <b>2018</b> , 81, 149-153	7.5	22
43	Lipid raft-dependent endocytosis of close homolog of adhesion molecule L1 (CHL1) promotes neuritogenesis. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 44447-63	5.4	22
42	Smooth muscle SIRT1 reprograms endothelial cells to suppress angiogenesis after ischemia. <i>Theranostics</i> , <b>2020</b> , 10, 1197-1212	12.1	21
41	Oxysterol-binding protein-related protein 5 (ORP5) promotes cell proliferation by activation of mTORC1 signaling. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 3806-3818	5.4	20
40	Association of CETP Taq1B and -629C > A polymorphisms with coronary artery disease and lipid levels in the multi-ethnic Singaporean population. <i>Lipids in Health and Disease</i> , <b>2013</b> , 12, 85	4.4	20
39	Lipid droplet growth and adipocyte development: mechanistically distinct processes connected by phospholipids. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2017</b> , 1862, 1273-1283 <sup>5</sup>		20
38	Identification of two proteins, S14 and UIP1, that interact with UCH37. <i>FEBS Letters</i> , <b>2001</b> , 488, 201-5	3.8	20
37	Enhanced acyl-CoA:cholesterol acyltransferase activity increases cholesterol levels on the lipid droplet surface and impairs adipocyte function. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 19306-19321	5.4	19
36	Endosomal cholesterol trafficking: protein factors at a glance. <i>Acta Biochimica Et Biophysica Sinica</i> , <b>2013</b> , 45, 11-7	2.8	18
35	The AAA ATPase VPS4/SKD1 regulates endosomal cholesterol trafficking independently of ESCRT-III. <i>Traffic</i> , <b>2013</b> , 14, 107-19	5.7	18
34	Programmed cell death in fission yeast <i>Schizosaccharomyces pombe</i> . <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2008</b> , 1783, 1335-49	4.9	18
33	Prediction of herb-drug metabolic interactions: a simulation study. <i>Phytotherapy Research</i> , <b>2005</b> , 19, 464-71	6.7	17
32	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> , <b>2016</b> , 1861, 410-8	5	14
31	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> , <b>2021</b> , 118,	11.5	14
30	VPS13: A lipid transfer protein making contacts at multiple cellular locations. <i>Journal of Cell Biology</i> , <b>2018</b> , 217, 3322-3324	7.3	13
29	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> , <b>2004</b> , 319, 911-9	3.4	12
28	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> , <b>2013</b> , 2013, 636287	6.7	11

27	Acyl-CoA: cholesterol acyltransferase-2 gene polymorphisms and their association with plasma lipids and coronary artery disease risks. <i>Human Genetics</i> , <b>2005</b> , 118, 393-403	6.3	11
26	A structure of human Scap bound to Insig-2 suggests how their interaction is regulated by sterols. <i>Science</i> , <b>2021</b> , 371,	33.3	11
25	The last five amino acid residues at the C-terminus of PRK1/PKN is essential for full lipid responsiveness. <i>Cellular Signalling</i> , <b>2005</b> , 17, 1084-97	4.9	10
24	DFCP1 associates with lipid droplets. <i>Cell Biology International</i> , <b>2019</b> , 43, 1492	4.5	9
23	Genome-wide screens for gene products regulating lipid droplet dynamics. <i>Methods in Cell Biology</i> , <b>2012</b> , 108, 303-16	1.8	9
22	CDP-DAG synthase 1 and 2 regulate lipid droplet growth through distinct mechanisms. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 16740-16755	5.4	8
21	CRISPR/Cas9-Mediated Generation of Niemann-Pick C1 Knockout Cell Line. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1583, 73-83	1.4	7
20	ApoC2 deficiency elicits severe hypertriglyceridemia and spontaneous atherosclerosis: A rodent model rescued from neonatal death. <i>Metabolism: Clinical and Experimental</i> , <b>2020</b> , 109, 154296	12.7	7
19	Akt activation increases cellular cholesterol by promoting the proteasomal degradation of Niemann-Pick C1. <i>Biochemical Journal</i> , <b>2015</b> , 471, 243-53	3.8	7
18	TMEM41B and VMP1 are phospholipid scramblases. <i>Autophagy</i> , <b>2021</b> , 17, 2048-2050	10.2	7
17	The expression of SEIPIN in the mouse central nervous system. <i>Brain Structure and Function</i> , <b>2016</b> , 221, 4111-4127	4	6
16	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> , <b>2019</b> , 1864, 113-127	5	6
15	Integrative analyses of translome and transcriptome reveal important translational controls in brown and white adipose regulated by microRNAs. <i>Scientific Reports</i> , <b>2017</b> , 7, 5681	4.9	5
14	AGPAT2 interaction with CDP-diacylglycerol synthases promotes the flux of fatty acids through the CDP-diacylglycerol pathway. <i>Nature Communications</i> , <b>2021</b> , 12, 6877	17.4	4
13	Extended synaptotagmins, peroxisome-endoplasmic reticulum contact and cholesterol transport. <i>Science China Life Sciences</i> , <b>2019</b> , 62, 1266-1269	8.5	3
12	Retinyl esters form lipid droplets independently of triacylglycerol and seipin. <i>Journal of Cell Biology</i> , <b>2021</b> , 220,	7.3	3
11	Human Multidrug Resistance Associated Protein 4 Confers Resistance to Camptothecins <b>2005</b> , 22, 1837		2
10	Seipin regulates the formation of nuclear lipid droplets from a distance. <i>Journal of Cell Biology</i> , <b>2021</b> , 220,	7.3	2



9	Surgical fat removal exacerbates metabolic disorders but not atherogenesis in LDLR mice fed on high-fat diet. <i>Scientific Reports</i> , <b>2019</b> , 9, 17848	4.9	2
8	Functional characterization of two single nucleotide polymorphisms of acyl-coenzyme A:cholesterol acyltransferase 2. <i>Gene</i> , <b>2015</b> , 566, 236-41	3.8	1
7	Sterol-binding proteins and endosomal cholesterol transport. <i>Frontiers in Biology</i> , <b>2011</b> , 6, 190		1
6	Triacylglycerol Measurement in HeLa Cells. <i>Bio-protocol</i> , <b>2020</b> , 10, e3852	0.9	1
5	ORP1L, ORP1S, and ORP2: Lipid Sensors and Transporters. <i>Contact (Thousand Oaks (Ventura County, Calif))</i> , <b>2020</b> , 3, 251525642095681	2.6	0
4	Elevated HB-EGF expression in neural stem cells causes middle age obesity by suppressing Hypocretin/Orexin expression. <i>FASEB Journal</i> , <b>2021</b> , 35, e21345	0.9	0
3	Hepatic CDP-diacylglycerol synthase 2 deficiency causes mitochondrial dysfunction and promotes rapid progression of NASH and fibrosis. <i>Science Bulletin</i> , <b>2021</b> , 67, 299-299	10.6	
2	Structure and function of lipid droplets <b>2021</b> , 357-394		
1	Idol Depletion Protects against Spontaneous Atherosclerosis in a Hamster Model of Familial Hypercholesterolemia. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2022</b> , 2022, 1-14	6.7	