Hongyuan Yang

List of Publications by Year in Descending Order

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	Idol Depletion Protects against Spontaneous Atherosclerosis in a Hamster Model of Familial Hypercholesterolemia. *Oxidative Medicine and Cellular Longevity*, **2022**, 2022, 1-14	6.7	
115	AGPAT2 interaction with CDP-diacylglycerol synthases promotes the flux of fatty acids through the CDP-diacylglycerol pathway. *Nature Communications*, **2021**, 12, 6877	17.4	4
114	Hepatic CDP-diacylglycerol synthase 2 deficiency causes mitochondrial dysfunction and promotes rapid progression of NASH and fibrosis. *Science Bulletin*, **2021**, 67, 299-299	10.6	
113	Seipin regulates the formation of nuclear lipid droplets from a distance. *Journal of Cell Biology*, **2021**, 220,	7.3	2
112	Elevated HB-EGF expression in neural stem cells causes middle age obesity by suppressing Hypocretin/Orexin expression. *FASEB Journal*, **2021**, 35, e21345	0.9	0
111	A structure of human Scap bound to Insig-2 suggests how their interaction is regulated by sterols. *Science*, **2021**, 371,	33.3	11
110	Seipin accumulates and traps diacylglycerols and triglycerides in its ring-like structure. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	14
109	TMEM41B and VMP1 are scramblases and regulate the distribution of cholesterol and phosphatidylserine. *Journal of Cell Biology*, **2021**, 220,	7.3	32
108	TMEM41B and VMP1 are phospholipid scramblases. *Autophagy*, **2021**, 17, 2048-2050	10.2	7
107	Retinyl esters form lipid droplets independently of triacylglycerol and seipin. *Journal of Cell Biology* , **2021**, 220,	7.3	3
106	Structure and function of lipid droplets **2021**, 357-394		
105	Structural basis for catalysis and substrate specificity of human ACAT1. *Nature*, **2020**, 581, 333-338	50.4	26
104	Structural Basis of Low-pH-Dependent Lysosomal Cholesterol Egress by NPC1 and NPC2. *Cell*, **2020**, 182, 98-111.e18	56.2	44
103	ApoC2 deficiency elicits severe hypertriglyceridemia and spontaneous atherosclerosis: A rodent model rescued from neonatal death. *Metabolism: Clinical and Experimental*, **2020**, 109, 154296	12.7	7
102	TMAVA, a Metabolite of Intestinal Microbes, Is Increased in Plasma From Patients With Liver Steatosis, Inhibits ⊟Butyrobetaine Hydroxylase, and Exacerbates Fatty Liver in Mice. *Gastroenterology*, **2020**, 158, 2266-2281.e27	13.3	37
101	Smooth muscle SIRT1 reprograms endothelial cells to suppress angiogenesis after ischemia. *Theranostics*, **2020**, 10, 1197-1212	12.1	21
100	Triacylglycerol Measurement in HeLa Cells. *Bio-protocol*, **2020**, 10, e3852	0.9	1

99	GPAT3 deficiency alleviates insulin resistance and hepatic steatosis in a mouse model of severe congenital generalized lipodystrophy. *Human Molecular Genetics*, **2020**, 29, 432-443	5.6	27
98	Mechanisms and regulation of cholesterol homeostasis. *Nature Reviews Molecular Cell Biology*, **2020**, 21, 225-245	48.7	315
97	ORP1L, ORP1S, and ORP2: Lipid Sensors and Transporters. *Contact (Thousand Oaks (Ventura County, Calif))*, **2020**, 3, 251525642095681	2.6	0
96	ORP5 localizes to ER-lipid droplet contacts and regulates the level of PI(4)P on lipid droplets. *Journal of Cell Biology*, **2020**, 219,	7.3	41
95	CDP-DAG synthase 1 and 2 regulate lipid droplet growth through distinct mechanisms. *Journal of Biological Chemistry*, **2019**, 294, 16740-16755	5.4	8
94	DFCP1 associates with lipid droplets. *Cell Biology International*, **2019**, 43, 1492	4.5	9
93	Extended synaptotagmins, peroxisome-endoplasmic reticulum contact and cholesterol transport. *Science China Life Sciences*, **2019**, 62, 1266-1269	8.5	3
92	The biogenesis of lipid droplets: Lipids take center stage. *Progress in Lipid Research*, **2019**, 75, 100989	14.3	60
91	Enhanced acyl-CoA:cholesterol acyltransferase activity increases cholesterol levels on the lipid droplet surface and impairs adipocyte function. *Journal of Biological Chemistry*, **2019**, 294, 19306-19321	5.4	19
90	Allosteric enhancement of ORP1-mediated cholesterol transport by PI(4,5)P/PI(3,4)P. *Nature Communications*, **2019**, 10, 829	17.4	51
89	Surgical fat removal exacerbates metabolic disorders but not atherogenesis in LDLR mice fed on high-fat diet. *Scientific Reports*, **2019**, 9, 17848	4.9	2
88	ORP2 Delivers Cholesterol to the Plasma Membrane in Exchange for Phosphatidylinositol 4, 5-Bisphosphate (PI(4,5)P). *Molecular Cell*, **2019**, 73, 458-473.e7	17.6	89
87	Intracellular Cholesterol Transport by Sterol Transfer Proteins at Membrane Contact Sites. *Trends in Biochemical Sciences*, **2019**, 44, 273-292	10.3	64
86	Identification of gene products that control lipid droplet size in yeast using a high-throughput quantitative image analysis. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2019**, 1864, 113-127	5	6
85	Oxysterol-binding protein-related protein 5 (ORP5) promotes cell proliferation by activation of mTORC1 signaling. *Journal of Biological Chemistry*, **2018**, 293, 3806-3818	5.4	20
84	Rab18 promotes lipid droplet (LD) growth by tethering the ER to LDs through SNARE and NRZ interactions. *Journal of Cell Biology*, **2018**, 217, 975-995	7.3	102
83	The role of oxysterol-binding protein and its related proteins in cancer. *Seminars in Cell and Developmental Biology*, **2018**, 81, 149-153	7.5	22
82	Human SEIPIN Binds Anionic Phospholipids. *Developmental Cell*, **2018**, 47, 248-256.e4	10.2	107

81	VPS13: A lipid transfer protein making contacts at multiple cellular locations. *Journal of Cell Biology* , **2018**, 217, 3322-3324	7.3	13
80	CRISPR/Cas9-Mediated Generation of Niemann-Pick C1 Knockout Cell Line. *Methods in Molecular Biology*, **2017**, 1583, 73-83	1.4	7
79	Routes and mechanisms of post-endosomal cholesterol trafficking: A story that never ends. *Traffic*, **2017**, 18, 209-217	5.7	61
78	ORP5 and ORP8 bind phosphatidylinositol-4, 5-biphosphate (PtdIns(4,5)P) and regulate its level at the plasma membrane. *Nature Communications*, **2017**, 8, 757	17.4	117
77	Integrative analyses of translatome and transcriptome reveal important translational controls in brown and white adipose regulated by microRNAs. *Scientific Reports*, **2017**, 7, 5681	4.9	5
76	Lipid droplet growth and adipocyte development: mechanistically distinct processes connected by phospholipids. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2017**, 1862, 1273-1283	5	20
75	Dynamic transcriptome changes during adipose tissue energy expenditure reveal critical roles for long noncoding RNA regulators. *PLoS Biology*, **2017**, 15, e2002176	9.7	41
74	SEIPIN Regulates Lipid Droplet Expansion and Adipocyte Development by Modulating the Activity of Glycerol-3-phosphate Acyltransferase. *Cell Reports*, **2016**, 17, 1546-1559	10.6	114
73	The expression of SEIPIN in the mouse central nervous system. *Brain Structure and Function*, **2016**, 221, 4111-4127	4	6
72	CDP-diacylglycerol synthases regulate the growth of lipid droplets and adipocyte development. *Journal of Lipid Research*, **2016**, 57, 767-80	6.3	27
71	Adipose tissue deficiency results in severe hyperlipidemia and atherosclerosis in the low-density lipoprotein receptor knockout mice. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2016**, 1861, 410-8	5	14
70	Functional characterization of two single nucleotide polymorphisms of acyl-coenzyme A:cholesterol acyltransferase 2. *Gene*, **2015**, 566, 236-41	3.8	1
69	Novel mechanisms of intracellular cholesterol transport: oxysterol-binding proteins and membrane contact sites. *Current Opinion in Cell Biology*, **2015**, 35, 37-42	9	38
68	Cholesterol transport through lysosome-peroxisome membrane contacts. *Cell*, **2015**, 161, 291-306	56.2	221
67	Akt activation increases cellular cholesterol by promoting the proteasomal degradation of Niemann-Pick C1. *Biochemical Journal*, **2015**, 471, 243-53	3.8	7
66	Insulin resistance and white adipose tissue inflammation are uncoupled in energetically challenged Fsp27-deficient mice. *Nature Communications*, **2015**, 6, 5949	17.4	61
65	Rab8a-AS160-MSS4 regulatory circuit controls lipid droplet fusion and growth. *Developmental Cell*, **2014**, 30, 378-93	10.2	76
64	Adipose-specific knockout of SEIPIN/BSCL2 results in progressive lipodystrophy. *Diabetes*, **2014**, 63, 2320-31	8.1	74

63	Lack of testicular seipin causes teratozoospermia syndrome in men. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 7054-9	11.5	47
62	Association of CETP Taq1B and -629C > A polymorphisms with coronary artery disease and lipid levels in the multi-ethnic Singaporean population. *Lipids in Health and Disease*, **2013**, 12, 85	4.4	20
61	Endosomal cholesterol trafficking: protein factors at a glance. *Acta Biochimica Et Biophysica Sinica*, **2013**, 45, 11-7	2.8	18
60	The AAA ATPase VPS4/SKD1 regulates endosomal cholesterol trafficking independently of ESCRT-III. *Traffic*, **2013**, 14, 107-19	5.7	18
59	Perilipin1 promotes unilocular lipid droplet formation through the activation of Fsp27 in adipocytes. *Nature Communications*, **2013**, 4, 1594	17.4	153
58	Structure of Osh3 reveals a conserved mode of phosphoinositide binding in oxysterol-binding proteins. *Structure*, **2013**, 21, 1203-13	5.2	101
57	Maintenance of mitochondrial morphology by autophagy and its role in high glucose effects on chronological lifespan of Saccharomyces cerevisiae. *Oxidative Medicine and Cellular Longevity*, **2013**, 2013, 636287	6.7	11
56	Controlling the size of lipid droplets: lipid and protein factors. *Current Opinion in Cell Biology*, **2012**, 24, 509-16	9	136
55	An essential role of Hrs/Vps27 in endosomal cholesterol trafficking. *Cell Reports*, **2012**, 1, 29-35	10.6	40
54	Accumulation of squalene is associated with the clustering of lipid droplets. *FEBS Journal*, **2012**, 279, 4231-44	5.7	35
53	Genome-wide screens for gene products regulating lipid droplet dynamics. *Methods in Cell Biology*, **2012**, 108, 303-16	1.8	9
52	Identification of the major functional proteins of prokaryotic lipid droplets. *Journal of Lipid Research*, **2012**, 53, 399-411	6.3	86
51	Overexpression of a short human seipin/BSCL2 isoform in mouse adipose tissue results in mild lipodystrophy. *American Journal of Physiology - Endocrinology and Metabolism*, **2012**, 302, E705-13	6	29
50	Lipid raft-dependent endocytosis of close homolog of adhesion molecule L1 (CHL1) promotes neuritogenesis. *Journal of Biological Chemistry*, **2012**, 287, 44447-63	5.4	22
49	The size and phospholipid composition of lipid droplets can influence their proteome. *Biochemical and Biophysical Research Communications*, **2011**, 415, 455-62	3.4	32
48	Seipin, adipogenesis and lipid droplets. *Trends in Endocrinology and Metabolism*, **2011**, 22, 204-10	8.8	81
47	Changes in reactive oxygen species begin early during replicative aging of Saccharomyces cerevisiae cells. *Free Radical Biology and Medicine*, **2011**, 50, 963-70	7.8	44
46	Sterol-binding proteins and endosomal cholesterol transport. *Frontiers in Biology*, **2011**, 6, 190		1

45	Seipin ablation in mice results in severe generalized lipodystrophy. *Human Molecular Genetics*, **2011**, 20, 3022-30	5.6	124
44	A role for oxysterol-binding protein-related protein 5 in endosomal cholesterol trafficking. *Journal of Cell Biology*, **2011**, 192, 121-35	7.3	227
43	Molecular characterization of seipin and its mutants: implications for seipin in triacylglycerol synthesis. *Journal of Lipid Research*, **2011**, 52, 2136-2147	6.3	63
42	A role for phosphatidic acid in the formation of "supersized" lipid droplets. *PLoS Genetics*, **2011**, 7, e1002201	8	235
41	Fsp27 promotes lipid droplet growth by lipid exchange and transfer at lipid droplet contact sites. *Journal of Cell Biology*, **2011**, 195, 953-63	7.3	226
40	Tissue-autonomous function of Drosophila seipin in preventing ectopic lipid droplet formation. *PLoS Genetics*, **2011**, 7, e1001364	6	107
39	Characterization of substrate preference for Slc1p and Cst26p in Saccharomyces cerevisiae using lipidomic approaches and an LPAAT activity assay. *PLoS ONE*, **2010**, 5, e11956	3.7	32
38	Toward one step analysis of cellular lipidomes using liquid chromatography coupled with mass spectrometry: application to Saccharomyces cerevisiae and Schizosaccharomyces pombe lipidomics. *Molecular BioSystems*, **2010**, 6, 1008-17		96
37	Conditions of endoplasmic reticulum stress stimulate lipid droplet formation in Saccharomyces cerevisiae. *Biochemical Journal*, **2009**, 424, 61-7	3.8	128
36	Programmed cell death in fission yeast Schizosaccharomyces pombe. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2008**, 1783, 1335-49	4.9	18
35	Different kinetics of cholesterol delivery to components of the cholesterol homeostatic machinery: implications for cholesterol trafficking to the endoplasmic reticulum. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2008**, 1781, 724-30	5	27
34	Genome-wide analysis of sterol-lipid storage and trafficking in Saccharomyces cerevisiae. *Eukaryotic Cell*, **2008**, 7, 401-14		45
33	Caspase-dependent and -independent lipotoxic cell-death pathways in fission yeast. *Journal of Cell Science*, **2008**, 121, 2671-84	5.3	36
32	Fld1p, a functional homologue of human seipin, regulates the size of lipid droplets in yeast. *Journal of Cell Biology*, **2008**, 180, 473-82	7.3	346
31	Up-regulation of mitochondrial activity and acquirement of brown adipose tissue-like property in the white adipose tissue of fsp27 deficient mice. *PLoS ONE*, **2008**, 3, e2890	3.7	189
30	Nonvesicular sterol transport: two protein families and a sterol sensor?. *Trends in Cell Biology*, **2006**, 16, 427-32	18.3	32
29	Topotecan is a substrate for multidrug resistance associated protein 4. *Current Drug Metabolism*, **2006**, 7, 105-18	3.5	60
28	A mechanistic study of the intestinal absorption of cryptotanshinone, the major active constituent of Salvia miltiorrhiza. *Journal of Pharmacology and Experimental Therapeutics*, **2006**, 317, 1285-94	4.7	80

27	Monitoring of immune responses to a herbal immuno-modulator in patients with advanced colorectal cancer. *International Immunopharmacology*, **2006**, 6, 499-508	5.8	77
26	Antitumor Activity and Underlying Mechanisms of Ganopoly, The Refined Polysaccharides Extracted from Ganoderma Lucidum, in Mice. *Immunological Investigations*, **2005**, 34, 171-198	2.9	62
25	Apoptosis and lipoapoptosis in the fission yeast Schizosaccharomyces pombe. *FEMS Yeast Research*, **2005**, 5, 1199-206	3.1	31
24	High doses of simvastatin upregulate dopamine D1 and D2 receptor expression in the rat prefrontal cortex: possible involvement of endothelial nitric oxide synthase. *British Journal of Pharmacology*, **2005**, 144, 933-9	8.6	33
23	AAA ATPases regulate membrane association of yeast oxysterol binding proteins and sterol metabolism. *EMBO Journal*, **2005**, 24, 2989-99	13	54
22	Molecular characterization of Osh6p, an oxysterol binding protein homolog in the yeast Saccharomyces cerevisiae. *FEBS Journal*, **2005**, 272, 4703-15	5.7	30
21	The last five amino acid residues at the C-terminus of PRK1/PKN is essential for full lipid responsiveness. *Cellular Signalling*, **2005**, 17, 1084-97	4.9	10
20	Acyl-CoA: cholesterol acyltransferase-2 gene polymorphisms and their association with plasma lipids and coronary artery disease risks. *Human Genetics*, **2005**, 118, 393-403	6.3	11
19	St. John's Wort modulates the toxicities and pharmacokinetics of CPT-11 (irinotecan) in rats. *Pharmaceutical Research*, **2005**, 22, 902-14	4.5	36
18	Human multidrug resistance associated protein 4 confers resistance to camptothecins. *Pharmaceutical Research*, **2005**, 22, 1837-53	4.5	117
17	Prediction of herb-drug metabolic interactions: a simulation study. *Phytotherapy Research*, **2005**, 19, 464-71	6.7	17
16	Antitumor Activity and Underlying Mechanisms of Ganopoly, The Refined Polysaccharides Extracted from Ganoderma Lucidum, in Mice. *Immunological Investigations*, **2005**, 34, 171-198	2.9	27
15	Human Multidrug Resistance Associated Protein 4 Confers Resistance to Camptothecins **2005**, 22, 1837		2
14	Cysteine starvation activates the redox-dependent mitochondrial permeability transition in retinal pigment epithelial cells. *Investigative Ophthalmology and Visual Science*, **2004**, 45, 4183-9		41
13	Cytochrome bc(1) regulates the mitochondrial permeability transition by two distinct pathways. *Journal of Biological Chemistry*, **2004**, 279, 50420-8	5.4	44
12	Ncr1p, the yeast ortholog of mammalian Niemann Pick C1 protein, is dispensable for endocytic transport. *Traffic*, **2004**, 5, 1017-30	5.7	24
11	The redox regulation of intermediary metabolism by a superoxide-aconitase rheostat. *BioEssays*, **2004**, 26, 894-900	4.1	49
10	Molecular cloning and biochemical characterization of Candida albicans acyl-CoA:sterol acyltransferase, a potential target of antifungal agents. *Biochemical and Biophysical Research Communications*, **2004**, 319, 911-9	3.4	12

9	Schizosaccharomyces pombe cells deficient in triacylglycerols synthesis undergo apoptosis upon entry into the stationary phase. *Journal of Biological Chemistry*, **2003**, 278, 47145-55	5.4	97
8	ABCA1 gene polymorphisms and their associations with coronary artery disease and plasma lipids in males from three ethnic populations in Singapore. *Human Genetics*, **2003**, 113, 106-17	6.3	49
7	Sulphite oxidase gene expression in human brain and in other human and rat tissues. *Biochemical and Biophysical Research Communications*, **2003**, 305, 619-23	3.4	31
6	Vps20p and Vta1p interact with Vps4p and function in multivesicular body sorting and endosomal transport in Saccharomyces cerevisiae. *Journal of Cell Science*, **2003**, 116, 3957-70	5.3	85
5	Identification of two proteins, S14 and UIP1, that interact with UCH37. *FEBS Letters*, **2001**, 488, 201-5	3.8	20
4	Identification of a 26S proteasome-associated UCH in fission yeast. *Biochemical and Biophysical Research Communications*, **2000**, 272, 270-5	3.4	58
3	Translocation efficiency, susceptibility to proteasomal degradation, and lipid responsiveness of apolipoprotein B are determined by the presence of beta sheet domains. *Journal of Biological Chemistry*, **1998**, 273, 35216-21	5.4	40
2	Functional expression of a cDNA to human acyl-coenzyme A:cholesterol acyltransferase in yeast. Species-dependent substrate specificity and inhibitor sensitivity. *Journal of Biological Chemistry*, **1997**, 272, 3980-5	5.4	51
1	Positive and negative regulation of a sterol biosynthetic gene (ERG3) in the post-squalene portion of the yeast ergosterol pathway. *FEBS Letters*, **1996**, 392, 161-5	3.8	60