

# Bao-Liang Song

## List of Publications by Year in descending order

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88  
papers

7,959  
citations

47006

47  
h-index

53230

85  
g-index

92  
all docs

92  
docs citations

92  
times ranked

9785  
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	Potentiating the antitumour response of CD8+ T cells by modulating cholesterol metabolism. <i>Nature</i> , 2016, 531, 651-655.	27.8	648
3	Cholesterol metabolism in cancer: mechanisms and therapeutic opportunities. <i>Nature Metabolism</i> , 2020, 2, 132-141.	11.9	411
4	Inhibition of SREBP by a Small Molecule, Betulin, Improves Hyperlipidemia and Insulin Resistance and Reduces Atherosclerotic Plaques. <i>Cell Metabolism</i> , 2011, 13, 44-56.	16.2	320
5	Gp78, a Membrane-Anchored Ubiquitin Ligase, Associates with Insig-1 and Couples Sterol-Regulated Ubiquitination to Degradation of HMG CoA Reductase. <i>Molecular Cell</i> , 2005, 19, 829-840.	9.7	317
6	Cholesterol Transport through Lysosome-Peroxisome Membrane Contacts. <i>Cell</i> , 2015, 161, 291-306.	28.9	314
7	The Cholesterol Absorption Inhibitor Ezetimibe Acts by Blocking the Sterol-Induced Internalization of NPC1L1. <i>Cell Metabolism</i> , 2008, 7, 508-519.	16.2	295
8	Insig-dependent Ubiquitination and Degradation of Mammalian 3-Hydroxy-3-methylglutaryl-CoA Reductase Stimulated by Sterols and Geranylgeraniol. <i>Journal of Biological Chemistry</i> , 2003, 278, 52479-52490.	3.4	254
9	Insig-mediated degradation of HMG CoA reductase stimulated by lanosterol, an intermediate in the synthesis of cholesterol. <i>Cell Metabolism</i> , 2005, 1, 179-189.	16.2	236
10	Cholesterol Homeostatic Regulator SCAP-SREBP2 Integrates NLRP3 Inflammasome Activation and Cholesterol Biosynthetic Signaling in Macrophages. <i>Immunity</i> , 2018, 49, 842-856.e7.	14.3	184
11	Cholesterol Modification of Smoothed Is Required for Hedgehog Signaling. <i>Molecular Cell</i> , 2017, 66, 154-162.e10.	9.7	169
12	Insig-dependent Ubiquitination and Degradation of 3-Hydroxy-3-methylglutaryl Coenzyme A Reductase Stimulated by $\Delta^5$ - and $\Delta^7$ -Tocotrienols. <i>Journal of Biological Chemistry</i> , 2006, 281, 25054-25061.	3.4	157
13	Sparse deconvolution improves the resolution of live-cell super-resolution fluorescence microscopy. <i>Nature Biotechnology</i> , 2022, 40, 606-617.	17.5	140
14	Flotillins play an essential role in Niemann-Pick C1-like 1-mediated cholesterol uptake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 551-556.	7.1	137
15	Regulation of glucose and lipid metabolism in health and disease. <i>Science China Life Sciences</i> , 2019, 62, 1420-1458.	4.9	134
16	Feeding induces cholesterol biosynthesis via the mTORC1- $\Delta^5$ -USP20-HMGCR axis. <i>Nature</i> , 2020, 588, 479-484.	27.8	125
17	In Vivo AAV-CRISPR/Cas9-Mediated Gene Editing Ameliorates Atherosclerosis in Familial Hypercholesterolemia. <i>Circulation</i> , 2020, 141, 67-79.	1.6	124
18	Acyl-CoA:cholesterol acyltransferases (ACATs/SOATs): Enzymes with multiple sterols as substrates and as activators. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 151, 102-107.	2.5	123

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19	Discovery of a potent HMG-CoA reductase degrader that eliminates statin-induced reductase accumulation and lowers cholesterol. <i>Nature Communications</i> , 2018, 9, 5138.	12.8	112
20	Ablation of gp78 in Liver Improves Hyperlipidemia and Insulin Resistance by Inhibiting SREBP to Decrease Lipid Biosynthesis. <i>Cell Metabolism</i> , 2012, 16, 213-225.	16.2	111
21	SREBP: a novel therapeutic target. <i>Acta Biochimica Et Biophysica Sinica</i> , 2013, 45, 2-10.	2.0	110
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	A <i>LIMA1</i> variant promotes low plasma LDL cholesterol and decreases intestinal cholesterol absorption. <i>Science</i> , 2018, 360, 1087-1092.	12.6	104
24	The biogenesis of lipid droplets: Lipids take center stage. <i>Progress in Lipid Research</i> , 2019, 75, 100989.	11.6	104
25	Genome editing with CRISPR/Cas9 in postnatal mice corrects PRKAG2 cardiac syndrome. <i>Cell Research</i> , 2016, 26, 1099-1111.	12.0	101
26	Post-translational regulation of lipogenesis via AMPK-dependent phosphorylation of insulin-induced gene. <i>Nature Communications</i> , 2019, 10, 623.	12.8	95
27	The N-terminal Domain of NPC1L1 Protein Binds Cholesterol and Plays Essential Roles in Cholesterol Uptake. <i>Journal of Biological Chemistry</i> , 2011, 286, 25088-25097.	3.4	93
28	Routes and mechanisms of post-endosomal cholesterol trafficking: A story that never ends. <i>Traffic</i> , 2017, 18, 209-217.	2.7	91
29	Ufd1 Is a Cofactor of gp78 and Plays a Key Role in Cholesterol Metabolism by Regulating the Stability of HMG-CoA Reductase. <i>Cell Metabolism</i> , 2007, 6, 115-128.	16.2	82
30	Cholesterol and fatty acids regulate cysteine ubiquitylation of ACAT2 through competitive oxidation. <i>Nature Cell Biology</i> , 2017, 19, 808-819.	10.3	81
31	The clathrin adaptor Numb regulates intestinal cholesterol absorption through dynamic interaction with NPC1L1. <i>Nature Medicine</i> , 2014, 20, 80-86.	30.7	77
32	Identification of Cholesterol 25-Hydroxylase as a Novel Host Restriction Factor and a Part of the Primary Innate Immune Responses against Hepatitis C Virus Infection. <i>Journal of Virology</i> , 2015, 89, 6805-6816.	3.4	76
33	Niemann-Pick C1-Like 1 and cholesterol uptake. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2012, 1821, 964-972.	2.4	69
34	Ubiquitination of 3-Hydroxy-3-methylglutaryl-CoA Reductase in Permeabilized Cells Mediated by Cytosolic E1 and a Putative Membrane-bound Ubiquitin Ligase. <i>Journal of Biological Chemistry</i> , 2004, 279, 28798-28806.	3.4	68
35	PAQR3 modulates cholesterol homeostasis by anchoring Scap/SREBP complex to the Golgi apparatus. <i>Nature Communications</i> , 2015, 6, 8100.	12.8	68
36	Cholesterol transport through the peroxisome-ER membrane contacts tethered by PI(4,5)P2 and extended synaptotagmins. <i>Science China Life Sciences</i> , 2019, 62, 1117-1135.	4.9	64

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37	Myosin Vb controls biogenesis of post-Golgi Rab10 carriers during axon development. <i>Nature Communications</i> , 2013, 4, 2005.	12.8	63
38	Endogenous sterol intermediates of the mevalonate pathway regulate HMGCR degradation and SREBP-2 processing. <i>Journal of Lipid Research</i> , 2019, 60, 1765-1775.	4.2	62
39	Membrane topology of human NPC1L1, a key protein in enterohepatic cholesterol absorption. <i>Journal of Lipid Research</i> , 2009, 50, 1653-1662.	4.2	60
40	Ring finger protein 145 (RNF145) is a ubiquitin ligase for sterol-induced degradation of HMG-CoA reductase. <i>Journal of Biological Chemistry</i> , 2018, 293, 4047-4055.	3.4	59
41	Molecular Characterization of the NPC1L1 Variants Identified from Cholesterol Low Absorbers. <i>Journal of Biological Chemistry</i> , 2011, 286, 7397-7408.	3.4	58
42	Inhibition of the sterol regulatory element-binding protein pathway suppresses hepatocellular carcinoma by repressing inflammation in mice. <i>Hepatology</i> , 2017, 65, 1936-1947.	7.3	57
43	Requirement of Myosin Vb-Rab11a-Rab11-FIP2 Complex in Cholesterol-regulated Translocation of NPC1L1 to the Cell Surface. <i>Journal of Biological Chemistry</i> , 2009, 284, 22481-22490.	3.4	56
44	TNF-alpha stimulates the ACAT1 expression in differentiating monocytes to promote the CE-laden cell formation. <i>Journal of Lipid Research</i> , 2009, 50, 1057-1067.	4.2	55
45	A specific cholesterol metabolic pathway is established in a subset of HCCs for tumor growth. <i>Journal of Molecular Cell Biology</i> , 2013, 5, 404-415.	3.3	54
46	Isolation of Mutant Cells Lacking Insig-1 through Selection with SR-12813, an Agent That Stimulates Degradation of 3-Hydroxy-3-methylglutaryl-Coenzyme A Reductase. <i>Journal of Biological Chemistry</i> , 2004, 279, 43136-43147.	3.4	51
47	Human acyl-CoA:cholesterol acyltransferase 2 gene expression in intestinal Caco-2 cells and in hepatocellular carcinoma. <i>Biochemical Journal</i> , 2006, 394, 617-626.	3.7	51
48	PIP4K2A regulates intracellular cholesterol transport through modulating PI(4,5)P2 homeostasis. <i>Journal of Lipid Research</i> , 2018, 59, 507-514.	4.2	50
49	The interplay of Patched, Smoothed and cholesterol in Hedgehog signaling. <i>Current Opinion in Cell Biology</i> , 2019, 61, 31-38.	5.4	48
50	The GARP Complex Is Involved in Intracellular Cholesterol Transport via Targeting NPC2 to Lysosomes. <i>Cell Reports</i> , 2017, 19, 2823-2835.	6.4	44
51	Gpmb secreted from liver promotes lipogenesis in white adipose tissue and aggravates obesity and insulin resistance. <i>Nature Metabolism</i> , 2019, 1, 570-583.	11.9	42
52	AAV9-NPC1 significantly ameliorates Purkinje cell death and behavioral abnormalities in mouse NPC disease. <i>Journal of Lipid Research</i> , 2017, 58, 512-518.	4.2	40
53	Degradation versus Inhibition: Development of Proteolysis-Targeting Chimeras for Overcoming Statin-Induced Compensatory Upregulation of 3-Hydroxy-3-methylglutaryl Coenzyme A Reductase. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 4908-4928.	6.4	38
54	The Small GTPase Cdc42 Interacts with Niemann-Pick C1-like 1 (NPC1L1) and Controls Its Movement from Endocytic Recycling Compartment to Plasma Membrane in a Cholesterol-dependent Manner. <i>Journal of Biological Chemistry</i> , 2011, 286, 35933-35942.	3.4	33

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55	Disruption of the ERLIN2-APOB complex destabilizes APOB and contributes to non-alcoholic fatty liver disease. <i>PLoS Genetics</i> , 2020, 16, e1008955.	3.5	32
56	POST1/C12ORF49 regulates the SREBP pathway by promoting site-1 protease maturation. <i>Protein and Cell</i> , 2021, 12, 279-296.	11.0	31
57	Deficiency of Histone Methyltransferase SET Domain-Containing 2 in Liver Leads to Abnormal Lipid Metabolism and HCC. <i>Hepatology</i> , 2021, 73, 1797-1815.	7.3	31
58	The Clathrin Adaptor Proteins ARH, Dab2, and Numb Play Distinct Roles in Niemann-Pick C1-Like 1 Versus Low Density Lipoprotein Receptor-mediated Cholesterol Uptake. <i>Journal of Biological Chemistry</i> , 2014, 289, 33689-33700.	3.4	30
59	Organization of Human ACAT-2 Gene and Its Cell-Type-Specific Promoter Activity. <i>Biochemical and Biophysical Research Communications</i> , 2001, 282, 580-588.	2.1	25
60	Discovery of an insulin-induced gene binding compound that ameliorates nonalcoholic steatohepatitis by inhibiting sterol regulatory element-binding protein-mediated lipogenesis. <i>Hepatology</i> , 2022, 76, 1466-1481.	7.3	24
61	Ablation of Plasma Prekallikrein Decreases Low-Density Lipoprotein Cholesterol by Stabilizing Low-Density Lipoprotein Receptor and Protects Against Atherosclerosis. <i>Circulation</i> , 2022, 145, 675-687.	1.6	22
62	Myeloid Acat1/Soat1 KO attenuates pro-inflammatory responses in macrophages and protects against atherosclerosis in a model of advanced lesions. <i>Journal of Biological Chemistry</i> , 2019, 294, 15836-15849.	3.4	20
63	Schnyder corneal dystrophy-associated UBIAD1 mutations cause corneal cholesterol accumulation by stabilizing HMG-CoA reductase. <i>PLoS Genetics</i> , 2019, 15, e1008289.	3.5	18
64	Cholesterylation of Smoothed is a calcium-accelerated autoreaction involving an intramolecular ester intermediate. <i>Cell Research</i> , 2022, 32, 288-301.	12.0	18
65	Ubiquitin Ligases in Cholesterol Metabolism. <i>Diabetes and Metabolism Journal</i> , 2014, 38, 171.	4.7	16
66	RNA secondary structures located in the interchromosomal region of human ACAT1 chimeric mRNA are required to produce the 56-kDa isoform. <i>Cell Research</i> , 2008, 18, 921-936.	12.0	14
67	Induction of senescence-associated secretory phenotype underlies the therapeutic efficacy of PRC2 inhibition in cancer. <i>Cell Death and Disease</i> , 2022, 13, 155.	6.3	14
68	Production of ACAT1 56-kDa isoform in human cells via trans-splicing involving the ampicillin resistance gene. <i>Cell Research</i> , 2013, 23, 1007-1024.	12.0	13
69	IDOL G51S Variant Is Associated With High Blood Cholesterol and Increases Low-Density Lipoprotein Receptor Degradation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 2468-2479.	2.4	13
70	Hypercholesterolemia risk-associated GPR146 is an orphan G-protein coupled receptor that regulates blood cholesterol levels in humans and mice. <i>Cell Research</i> , 2020, 30, 363-365.	12.0	12
71	Competitive oxidation and ubiquitylation on the evolutionarily conserved cysteine confer tissue-specific stabilization of Insig-2. <i>Nature Communications</i> , 2020, 11, 379.	12.8	12
72	The non-canonical NF- $\kappa$ B pathway promotes NPC2 expression and regulates intracellular cholesterol trafficking. <i>Science China Life Sciences</i> , 2018, 61, 1222-1232.	4.9	11

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73	Synthesis of heterocyclic ring-fused analogs of HMG499 as novel degraders of HMG-CoA reductase that lower cholesterol. <i>European Journal of Medicinal Chemistry</i> , 2022, 236, 114323.	5.5	11
74	Lowering low-density lipoprotein cholesterol: from mechanisms to therapies. , 2022, 1, 25-38.		10
75	Numb directs the subcellular localization of excitatory amino acid transporter type 3 through binding the YXNXXF motif. <i>Journal of Cell Science</i> , 2016, 129, 3104-14.	2.0	8
76	SUMOylation of the ubiquitin ligase IDOL decreases LDL receptor levels and is reversed by SENP1. <i>Journal of Biological Chemistry</i> , 2021, 296, 100032.	3.4	8
77	The 3-beta-hydroxysteroid-Delta(8), Delta(7)-isomerase EBP inhibits cholesterylation of Smoothened. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 159041.	2.4	7
78	Forward Genetic Screening for Regulators Involved in Cholesterol Synthesis Using Validation-Based Insertional Mutagenesis. <i>PLoS ONE</i> , 2014, 9, e112632.	2.5	6
79	Measurement of Cholesterol Transfer from Lysosome to Peroxisome Using an In Vitro Reconstitution Assay. <i>Methods in Molecular Biology</i> , 2017, 1583, 141-161.	0.9	4
80	Analysis of Protein Cholesterylation by Biorthogonal Labeling. <i>Methods in Molecular Biology</i> , 2022, 2374, 27-36.	0.9	4
81	Peroxisomes in intracellular cholesterol transport: from basic physiology to brain pathology. , 2021, 1, .		3
82	Two Human ACAT2 mRNA Variants Produced by Alternative Splicing and Coding for Novel Isoenzymes. <i>Acta Biochimica Et Biophysica Sinica</i> , 2005, 37, 797-806.	2.0	2
83	Identification and characterization of NPC1L1 variants in Uygur and Kazakh with extreme low-density lipoprotein cholesterol. <i>Biochemical and Biophysical Research Communications</i> , 2016, 479, 628-635.	2.1	2
84	Hitching a ride to the top: peroxisomes fuel cilium with cholesterol. <i>Science China Life Sciences</i> , 2021, 64, 478-481.	4.9	2
85	A special issue on 'Metabolism'. <i>Acta Biochimica Et Biophysica Sinica</i> , 2013, 45, 1-1.	2.0	1
86	Preparation of an anti-Cdx-2 antibody for analysis of different species Cdx-2 binding to acat2 promoter. <i>Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao Acta Biochimica Et Biophysica Sinica</i> , 2003, 35, 6-12.	0.1	1
87	Dissecting NPC1L1-mediated cholesterol absorption. <i>Future Lipidology</i> , 2008, 3, 481-484.	0.5	0
88	Tocotrienols and the Regulation of Cholesterol Biosynthesis. , 2008, , 237-256.		0