

# Wen-Jun Shen

## List of Publications by Citations

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92  
papers

4,594  
citations

39  
h-index

67  
g-index

94  
ext. papers

5,231  
ext. citations

5.1  
avg, IF

5.49  
L-index

#	Paper	IF	Citations
92	Hormone-sensitive lipase: control of intracellular tri-(di-)acylglycerol and cholesteryl ester hydrolysis. <i>Journal of Lipid Research</i> , <b>2002</b> , 43, 1585-94	6.3	363
91	Stimulation of lipolysis and hormone-sensitive lipase via the extracellular signal-regulated kinase pathway. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 45456-61	5.4	264
90	IL-17 regulates adipogenesis, glucose homeostasis, and obesity. <i>Journal of Immunology</i> , <b>2010</b> , 185, 6947-59	5.9	257
89	Efficient transformation of <i>Agrobacterium</i> spp. by high voltage electroporation. <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 8385	20.1	252
88	Cellular cholesterol delivery, intracellular processing and utilization for biosynthesis of steroid hormones. <i>Nutrition and Metabolism</i> , <b>2010</b> , 7, 47	4.6	242
87	Control of adipose triglyceride lipase action by serine 517 of perilipin A globally regulates protein kinase A-stimulated lipolysis in adipocytes. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 996-1002	5.4	218
86	Interaction of rat hormone-sensitive lipase with adipocyte lipid-binding protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 5528-32	11.5	175
85	Two glutamine synthetase genes from <i>Phaseolus vulgaris</i> L. display contrasting developmental and spatial patterns of expression in transgenic <i>Lotus corniculatus</i> plants. <i>Plant Cell</i> , <b>1989</b> , 1, 391-401	11.6	148
84	SR-B1: A Unique Multifunctional Receptor for Cholesterol Influx and Efflux. <i>Annual Review of Physiology</i> , <b>2018</b> , 80, 95-116	23.1	146
83	Resistance to high-fat diet-induced obesity and altered expression of adipose-specific genes in HSL-deficient mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2003</b> , 285, E1182-95	6	126
82	Characterization of age-related gene expression profiling in bone marrow and epididymal adipocytes. <i>BMC Genomics</i> , <b>2011</b> , 12, 212	4.5	98
81	PPARs: regulators of metabolism and as therapeutic targets in cardiovascular disease. Part II: PPAR- $\alpha$ and PPAR- $\gamma$ <i>Future Cardiology</i> , <b>2017</b> , 13, 279-296	1.3	97
80	MicroRNAs 125a and 455 repress lipoprotein-supported steroidogenesis by targeting scavenger receptor class B type I in steroidogenic cells. <i>Molecular and Cellular Biology</i> , <b>2012</b> , 32, 5035-45	4.8	95
79	Functional interaction of hormone-sensitive lipase and perilipin in lipolysis. <i>Journal of Lipid Research</i> , <b>2009</b> , 50, 2306-13	6.3	86
78	Lipid droplets and steroidogenic cells. <i>Experimental Cell Research</i> , <b>2016</b> , 340, 209-14	4.2	81
77	Hormone-sensitive lipase is required for high-density lipoprotein cholesteryl ester-supported adrenal steroidogenesis. <i>Molecular Endocrinology</i> , <b>2004</b> , 18, 549-57		81
76	Fatty acid-binding protein-hormone-sensitive lipase interaction. Fatty acid dependence on binding. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 47636-43	5.4	77

75	PPARs: regulators of metabolism and as therapeutic targets in cardiovascular disease. Part I: PPAR- $\alpha$ <i>Future Cardiology</i> , <b>2017</b> , 13, 259-278	1.3	72
74	Mutational analysis of structural features of rat hormone-sensitive lipase. <i>Biochemistry</i> , <b>1998</b> , 37, 8973-932	3.2	68
73	Scavenger receptor class B type I (SR-BI): a versatile receptor with multiple functions and actions. <i>Metabolism: Clinical and Experimental</i> , <b>2014</b> , 63, 875-86	12.7	66
72	Characterization of the functional interaction of adipocyte lipid-binding protein with hormone-sensitive lipase. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 49443-8	5.4	64
71	Interaction of hormone-sensitive lipase with steroidogenic acute regulatory protein: facilitation of cholesterol transfer in adrenal. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 43870-6	5.4	61
70	Adipocytes decrease Runx2 expression in osteoblastic cells: roles of PPAR $\alpha$ and adiponectin. <i>Journal of Cellular Physiology</i> , <b>2010</b> , 225, 837-45	7	60
69	Lipid droplet metabolism. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , <b>2013</b> , 16, 632-7	3.8	59
68	Human BMP-7/OP-1 induces the growth and differentiation of adipocytes and osteoblasts in bone marrow stromal cell cultures. <i>Journal of Cellular Biochemistry</i> , <b>2001</b> , 82, 187-99	4.7	58
67	Hormone-sensitive lipase functions as an oligomer. <i>Biochemistry</i> , <b>2000</b> , 39, 2392-8	3.2	56
66	Scavenger receptor B type 1: expression, molecular regulation, and cholesterol transport function. <i>Journal of Lipid Research</i> , <b>2018</b> , 59, 1114-1131	6.3	55
65	Hormonal regulation of microRNA expression in steroid producing cells of the ovary, testis and adrenal gland. <i>PLoS ONE</i> , <b>2013</b> , 8, e78040	3.7	51
64	Ablation of vimentin results in defective steroidogenesis. <i>Endocrinology</i> , <b>2012</b> , 153, 3249-57	4.8	50
63	Cardiac overexpression of hormone-sensitive lipase inhibits myocardial steatosis and fibrosis in streptozotocin diabetic mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2008</b> , 294, E1109-18	6	50
62	Adrenal neutral cholesteryl ester hydrolase: identification, subcellular distribution, and sex differences. <i>Endocrinology</i> , <b>2002</b> , 143, 801-6	4.8	50
61	The proteome of cholesteryl-ester-enriched versus triacylglycerol-enriched lipid droplets. <i>PLoS ONE</i> , <b>2014</b> , 9, e105047	3.7	47
60	Hormone-sensitive lipase modulates adipose metabolism through PPAR $\alpha$ <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2011</b> , 1811, 9-16	5	47
59	Cholesterol ester droplets and steroidogenesis. <i>Molecular and Cellular Endocrinology</i> , <b>2013</b> , 371, 15-9	4.4	46
58	Absence of hormone-sensitive lipase inhibits obesity and adipogenesis in Lep ob/ob mice. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 15084-90	5.4	45

57	Absence of cardiac lipid accumulation in transgenic mice with heart-specific HSL overexpression. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2001</b> , 281, E857-66	6	45
56	Oxidative stress-induced inhibition of adrenal steroidogenesis requires participation of p38 mitogen-activated protein kinase signaling pathway. <i>Journal of Endocrinology</i> , <b>2008</b> , 198, 193-207	4.7	44
55	Cardiac gene expression profile and lipid accumulation in response to starvation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2002</b> , 283, E94-E102	6	42
54	Hormone-sensitive lipase knockouts. <i>Nutrition and Metabolism</i> , <b>2006</b> , 3, 12	4.6	40
53	Fat-specific protein 27 modulates nuclear factor of activated T cells 5 and the cellular response to stress. <i>Journal of Lipid Research</i> , <b>2013</b> , 54, 734-743	6.3	36
52	Effects of rosiglitazone and high fat diet on lipase/esterase expression in adipose tissue. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2007</b> , 1771, 177-84	5	34
51	SNARE-Mediated Cholesterol Movement to Mitochondria Supports Steroidogenesis in Rodent Cells. <i>Molecular Endocrinology</i> , <b>2016</b> , 30, 234-47		30
50	Regulation of expression and function of scavenger receptor class B, type I (SR-BI) by Na <sup>+</sup> /H <sup>+</sup> exchanger regulatory factors (NHERFs). <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 11416-35	5.4	30
49	Age-related modulation of the effects of obesity on gene expression profiles of mouse bone marrow and epididymal adipocytes. <i>PLoS ONE</i> , <b>2013</b> , 8, e72367	3.7	27
48	p38 MAPK regulates steroidogenesis through transcriptional repression of STAR gene. <i>Journal of Molecular Endocrinology</i> , <b>2014</b> , 53, 1-16	4.5	26
47	Regulation of adrenal and ovarian steroidogenesis by miR-132. <i>Journal of Molecular Endocrinology</i> , <b>2017</b> , 59, 269-283	4.5	26
46	Vimentin is a functional partner of hormone sensitive lipase and facilitates lipolysis. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 1786-94	5.6	26
45	The LDL receptor is not necessary for acute adrenal steroidogenesis in mouse adrenocortical cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2007</b> , 292, E408-12	6	24
44	A Novel Role of Salt-Inducible Kinase 1 (SIK1) in the Post-Translational Regulation of Scavenger Receptor Class B Type 1 Activity. <i>Biochemistry</i> , <b>2015</b> , 54, 6917-30	3.2	19
43	Nordihydroguaiaretic acid improves metabolic dysregulation and aberrant hepatic lipid metabolism in mice by both PPAR $\alpha$ -dependent and -independent pathways. <i>American Journal of Physiology - Renal Physiology</i> , <b>2013</b> , 304, G72-86	5.1	19
42	Differential roles of cysteine residues in the cellular trafficking, dimerization, and function of the high-density lipoprotein receptor, SR-BI. <i>Biochemistry</i> , <b>2011</b> , 50, 10860-75	3.2	18
41	Mutational analysis of the "regulatory module" of hormone-sensitive lipase. <i>Biochemistry</i> , <b>2005</b> , 44, 1953-9	3.9	17
40	Effect of Creosote Bush-Derived NDGA on Expression of Genes Involved in Lipid Metabolism in Liver of High-Fructose Fed Rats: Relevance to NDGA Amelioration of Hypertriglyceridemia and Hepatic Steatosis. <i>PLoS ONE</i> , <b>2015</b> , 10, e0138203	3.7	16

39	Functional analysis of the promoter region of a nodule-enhanced glutamine synthetase gene from <i>Phaseolus vulgaris</i> L. <i>Plant Molecular Biology</i> , <b>1992</b> , 19, 837-46	4.6	16
38	Adrenal Neutral Cholesteryl Ester Hydrolase: Identification, Subcellular Distribution, and Sex Differences		16
37	SNAREs and cholesterol movement for steroidogenesis. <i>Molecular and Cellular Endocrinology</i> , <b>2017</b> , 441, 17-21	4.4	15
36	ACTH Regulation of Adrenal SR-B1. <i>Frontiers in Endocrinology</i> , <b>2016</b> , 7, 42	5.7	15
35	Feedback inhibition of CREB signaling by p38 MAPK contributes to the negative regulation of steroidogenesis. <i>Reproductive Biology and Endocrinology</i> , <b>2017</b> , 15, 19	5	13
34	Generation of novel adipocyte monolayer cultures from embryonic stem cells. <i>Stem Cells and Development</i> , <b>2007</b> , 16, 371-80	4.4	13
33	Nordihydroguaiaretic Acid, a Lignan from (Creosote Bush), Protects Against American Lifestyle-Induced Obesity Syndrome Diet-Induced Metabolic Dysfunction in Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2018</b> , 365, 281-290	4.7	12
32	The role of miRNAs in regulating adrenal and gonadal steroidogenesis. <i>Journal of Molecular Endocrinology</i> , <b>2020</b> , 64, R21-R43	4.5	12
31	Microarray analysis of gene expression in liver, adipose tissue and skeletal muscle in response to chronic dietary administration of NDGA to high-fructose fed dyslipidemic rats. <i>Nutrition and Metabolism</i> , <b>2016</b> , 13, 63	4.6	10
30	Gene expression profile of human skeletal muscle and adipose tissue of Chinese Han patients with type 2 diabetes mellitus. <i>Biomedical and Environmental Sciences</i> , <b>2009</b> , 22, 359-68	1.1	10
29	Scavenger receptor class B, type 1 facilitates cellular fatty acid uptake. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2020</b> , 1865, 158554	5	10
28	Overexpression of leptin in transgenic mice leads to decreased basal lipolysis, PKA activity, and perilipin levels. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 312, 1165-70	3.4	9
27	Function of hormone-sensitive lipase in diacylglycerol-protein kinase C pathway. <i>Diabetes Research and Clinical Practice</i> , <b>2004</b> , 65, 209-15	7.4	9
26	Using SRM-MS to quantify nuclear protein abundance differences between adipose tissue depots of insulin-resistant mice. <i>Journal of Lipid Research</i> , <b>2015</b> , 56, 1068-78	6.3	8
25	Dysregulation of microRNA-125a contributes to obesity-associated insulin resistance and dysregulates lipid metabolism in mice. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2020</b> , 1865, 158640	5	8
24	Hormone-sensitive lipase-knockout mice maintain high bone density during aging. <i>FASEB Journal</i> , <b>2011</b> , 25, 2722-30	0.9	8
23	WNT-activated bone grafts repair osteonecrotic lesions in aged animals. <i>Scientific Reports</i> , <b>2017</b> , 7, 14254	4.9	7
22	Tissue-Specific Ablation of ACSL4 Results in Disturbed Steroidogenesis. <i>Endocrinology</i> , <b>2019</b> , 160, 2517-2528	5.8	7

21	Plasma membrane cholesterol trafficking in steroidogenesis. <i>FASEB Journal</i> , <b>2019</b> , 33, 1389-1400	0.9	6
20	Creosote bush-derived NDGA attenuates molecular and pathological changes in a novel mouse model of non-alcoholic steatohepatitis (NASH). <i>Molecular and Cellular Endocrinology</i> , <b>2019</b> , 498, 110538	4.4	6
19	LDL and cAMP cooperate to regulate the functional expression of the LRP in rat ovarian granulosa cells. <i>Journal of Lipid Research</i> , <b>2006</b> , 47, 2538-50	6.3	6
18	COVID-19 May Increase the Risk of Insulin Resistance in Adult Patients Without Diabetes: A 6-Month Prospective Study. <i>Endocrine Practice</i> , <b>2021</b> , 27, 834-841	3.2	6
17	NHERF1 and NHERF2 regulation of SR-B1 stability via ubiquitination and proteasome degradation. <i>Biochemical and Biophysical Research Communications</i> , <b>2017</b> , 490, 1168-1175	3.4	5
16	Regulation of hormone-sensitive lipase in islets. <i>Diabetes Research and Clinical Practice</i> , <b>2007</b> , 75, 14-26	7.4	5
15	Impact of Aging on Cholesterol Transport Protein Expression and Steroidogenesis in Rat Testicular Leydig Cells. <i>Open Longevity Science</i> , <b>2008</b> , 2, 76-85		5
14	SOD2 deficiency-induced oxidative stress attenuates steroidogenesis in mouse ovarian granulosa cells. <i>Molecular and Cellular Endocrinology</i> , <b>2021</b> , 519, 110888	4.4	5
13	Over-expression of miR-34c leads to early-life visceral fat accumulation and insulin resistance. <i>Scientific Reports</i> , <b>2019</b> , 9, 13844	4.9	4
12	Quantification of stromal vascular cell mechanics with a linear cell monolayer rheometer. <i>Journal of Rheology</i> , <b>2015</b> , 59, 33-50	4.1	3
11	Adipose Triglyceride Lipase, Not Hormone-Sensitive Lipase, Is the Primary Lipolytic Enzyme in Fasting Elephant Seals ( <i>Mirounga angustirostris</i> ). <i>Physiological and Biochemical Zoology</i> , <b>2015</b> , 88, 284-94		3
10	Novel ABCA1 peptide agonists with antidiabetic action. <i>Molecular and Cellular Endocrinology</i> , <b>2019</b> , 480, 1-11	4.4	3
9	Slc43a3 is a regulator of free fatty acid flux. <i>Journal of Lipid Research</i> , <b>2020</b> , 61, 734-745	6.3	3
8	Anti-hyperlipidaemic effects of synthetic analogues of nordihydroguaiaretic acid in dyslipidaemic rats. <i>British Journal of Pharmacology</i> , <b>2019</b> , 176, 369-385	8.6	3
7	Molecular changes in hepatic metabolism in ZSD rats-A new polygenic rodent model of obesity, metabolic syndrome, and diabetes. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2020</b> , 1866, 165688	6.9	2
6	The adaptor protein GIPC1 stabilizes the scavenger receptor SR-B1 and increases its cholesterol uptake. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100616	5.4	1
5	SNAP25 mutation disrupts metabolic homeostasis, steroid hormone production and central neurobehavior. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2021</b> , 1868, 166304	6.9	0
4	Chemerin regulates formation and function of brown adipose tissue: Ablation results in increased insulin resistance with high fat challenge and aging. <i>FASEB Journal</i> , <b>2021</b> , 35, e21687	0.9	0

- 3 Hormone sensitive lipase ablation promotes bone regeneration. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2022**, 166449 6.9 0
- 2 Post-transcriptional and Post-translational Regulation of Steroidogenesis **2016**, 253-275
- 1 Anti-hyperlipidemic actions of synthetic nordihydroguaiaretic acid analogs (767.1). *FASEB Journal*, **2014**, 28, 767.1 0.9