Lawrence Chan

List of Publications by Year in descending order

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24915 36203 12,321 123 51 109 citations h-index g-index papers 131 131 131 17573 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	TFEB controls cellular lipid metabolism through a starvation-induced autoregulatory loop. Nature Cell Biology, 2013, 15, 647-658.	4.6	796
2	Farnesoid X receptor is essential for normal glucose homeostasis. Journal of Clinical Investigation, 2006, 116, 1102-1109.	3.9	716
3	T-Cell Accumulation and Regulated on Activation, Normal T Cell Expressed and Secreted Upregulation in Adipose Tissue in Obesity. Circulation, 2007, 115, 1029-1038.	1.6	577
4	Absence of perilipin results in leanness and reverses obesity in Leprdb/db mice. Nature Genetics, 2000, 26, 474-479.	9.4	523
5	Reversal of obesity by targeted ablation of adipose tissue. Nature Medicine, 2004, 10, 625-632.	15.2	523
6	Adiponectin regulates albuminuria and podocyte function in mice. Journal of Clinical Investigation, 2008, 118, 1645-56.	3.9	493
7	P-Selectin or Intercellular Adhesion Molecule (Icam)-1 Deficiency Substantially Protects against Atherosclerosis in Apolipoprotein E–Deficient Mice. Journal of Experimental Medicine, 2000, 191, 189-194.	4.2	434
8	Sequence, structure, receptor-binding domains and internal repeats of human apolipoprotein B-100. Nature, 1986, 323, 738-742.	13.7	431
9	NeuroD-betacellulin gene therapy induces islet neogenesis in the liver and reverses diabetes in mice. Nature Medicine, 2003, 9, 596-603.	15.2	430
10	Adiponectin Cardioprotection After Myocardial Ischemia/Reperfusion Involves the Reduction of Oxidative/Nitrative Stress. Circulation, 2007, 115, 1408-1416.	1.6	411
11	Atherosclerosis: evidence for impairment of resolution of vascular inflammation governed by specific lipid mediators. FASEB Journal, 2008, 22, 3595-3606.	0.2	378
12	C-Reactive Protein Accelerates the Progression of Atherosclerosis in Apolipoprotein E–Deficient Mice. Circulation, 2004, 109, 647-655.	1.6	371
13	Protection against Fatty Liver but Normal Adipogenesis in Mice Lacking Adipose Differentiation-Related Protein. Molecular and Cellular Biology, 2006, 26, 1063-1076.	1.1	279
14	Increased \hat{I}^2 -Oxidation but No Insulin Resistance or Glucose Intolerance in Mice Lacking Adiponectin. Journal of Biological Chemistry, 2002, 277, 34658-34661.	1.6	264
15	The absence of p53 accelerates atherosclerosis by increasing cell proliferation in vivo. Nature Medicine, 1999, 5, 335-339.	15.2	261
16	Activation of nuclear receptor CAR ameliorates diabetes and fatty liver disease. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18831-18836.	3.3	216
17	Structure and evolution of the apolipoprotein multigene family. Journal of Molecular Biology, 1986, 187, 325-340.	2.0	210
18	Extrapancreatic insulin-producing cells in multiple organs in diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 2458-2463.	3.3	191

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19	Ubiquitin-Proteasome Pathway Mediates Intracellular Degradation of Apolipoprotein B. Biochemistry, 1996, 35, 13843-13848.	1.2	179
20	Neurogenin3 Is Sufficient for Transdetermination of Hepatic Progenitor Cells into Neo-Islets In Vivo but Not Transdifferentiation of Hepatocytes. Developmental Cell, 2009, 16, 358-373.	3.1	174
21	Targeted inactivation of MLL3 histone H3–Lys-4 methyltransferase activity in the mouse reveals vital roles for MLL3 in adipogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19229-19234.	3.3	165
22	Long-Term Stable Correction of Low-Density Lipoprotein Receptor–Deficient Mice With a Helper-Dependent Adenoviral Vector Expressing the Very Low-Density Lipoprotein Receptor. Circulation, 2001, 103, 1274-1281.	1.6	146
23	Deficiency of Adipose Differentiation-Related Protein Impairs Foam Cell Formation and Protects Against Atherosclerosis. Circulation Research, 2008, 102, 1492-1501.	2.0	142
24	Molecular characterization of the role of orphan receptor small heterodimer partner in development of fatty liver. Hepatology, 2007, 46, 147-157.	3.6	140
25	Berardinelli-Seip Congenital Lipodystrophy 2/Seipin Is a Cell-Autonomous Regulator of Lipolysis Essential for Adipocyte Differentiation. Molecular and Cellular Biology, 2012, 32, 1099-1111.	1.1	139
26	The constitutive lipid droplet protein PLIN2 regulates autophagy in liver. Autophagy, 2017, 13, 1130-1144.	4.3	136
27	Liver-specific Inactivation of the Abetalipoproteinemia Gene Completely Abrogates Very Low Density Lipoprotein/Low Density Lipoprotein Production in a Viable Conditional Knockout Mouse. Journal of Biological Chemistry, 1999, 274, 6051-6055.	1.6	116
28	Endothelial dysfunction in adiponectin deficiency and its mechanisms involved. Journal of Molecular and Cellular Cardiology, 2009, 46, 413-419.	0.9	114
29	Macrophage-Specific p53 Expression Plays a Crucial Role in Atherosclerosis Development and Plaque Remodeling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 1608-1614.	1.1	106
30	Functional Compensation for Adipose Differentiation-related Protein (ADFP) by Tip47 in an ADFP Null Embryonic Cell Line. Journal of Biological Chemistry, 2006, 281, 34341-34348.	1.6	105
31	Monogenic Diabetes: What It Teaches Us on the Common Forms of Type 1 and Type 2 Diabetes. Endocrine Reviews, 2016, 37, 190-222.	8.9	100
32	Cholesterol Accumulation in CD11c+ Immune Cells Is a Causal and Targetable Factor in Autoimmune Disease. Immunity, 2016, 45, 1311-1326.	6.6	99
33	Metabolic Adaptations in the Absence of Perilipin. Journal of Biological Chemistry, 2004, 279, 35150-35158.	1.6	96
34	Mouse Very-Low-Density-Lipoprotein Receptor (VLDLR) cDNA Cloning, Tissue-specific Expression and Evolutionary Relationship with the Low-density-lipoprotein Receptor. FEBS Journal, 1994, 224, 975-982.	0.2	95
35	Adiponectin. Circulation Research, 2010, 106, 409-417.	2.0	88
36	Specificity of Serine Proteinase/Serpin Complex Binding to Very-Low-Density Lipoprotein Receptor and alpha2-Macroglobulin Receptor/Low-Density-Lipoprotein-Receptor-Related Protein. FEBS Journal, 1997, 248, 270-281.	0.2	83

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37	Inactivation of Plin4 downregulates Plin5 and reduces cardiac lipid accumulation in mice. American Journal of Physiology - Endocrinology and Metabolism, 2013, 304, E770-E779.	1.8	83
38	A Peptidomimetic Targeting White Fat Causes Weight Loss and Improved Insulin Resistance in Obese Monkeys. Science Translational Medicine, 2011, 3, 108ra112.	5.8	80
39	Cellular Energy Depletion Resets Whole-Body Energy by Promoting Coactivator-Mediated Dietary Fuel Absorption. Cell Metabolism, 2011, 13, 35-43.	7.2	78
40	Absence of adipose differentiation related protein upregulates hepatic VLDL secretion, relieves hepatosteatosis, and improves whole body insulin resistance in leptin-deficient mice. Journal of Lipid Research, 2010, 51, 2132-2142.	2.0	77
41	Mechanism of Action of the Sex Steroid Hormones. New England Journal of Medicine, 1976, 294, 1372-1381.	13.9	75
42	A 40 kilodalton rat liver nuclear protein binds specifically to apolipoprotein B mRNA around the RNA editing site. Nucleic Acids Research, 1990, 18, 5817-5821.	6.5	70
43	Coordinated Upregulation of Oxidative Pathways and Downregulation of Lipid Biosynthesis Underlie Obesity Resistance in Perilipin Knockout Mice: A Microarray Gene Expression Profile. Diabetes, 2003, 52, 2666-2674.	0.3	70
44	IFATS Collection: Combinatorial Peptides Identify $\hat{l}\pm 5\hat{l}^21$ Integrin as a Receptor for the Matricellular Protein SPARC on Adipose Stromal Cells. Stem Cells, 2008, 26, 2735-2745.	1.4	70
45	Absence of p21 Waf1/Cip1/Sdi1 Modulates Macrophage Differentiation and Inflammatory Response and Protects Against Atherosclerosis. Circulation, 2004, 110, 3830-3841.	1.6	66
46	Endothelial lipase modulates HDL but has no effect on atherosclerosis development in apoEâ^'/â^' and LDLRâ^'/â^' mice. Journal of Lipid Research, 2005, 46, 2586-2594.	2.0	66
47	Inhibition of the hexosamine biosynthetic pathway promotes castration-resistant prostate cancer. Nature Communications, 2016, 7, 11612.	5.8	66
48	Apobec-1 and apolipoprotein B mRNA editing. Lipids and Lipid Metabolism, 1997, 1345, 11-26.	2.6	65
49	From The Cover: The fusion of bone-marrow-derived proinsulin-expressing cells with nerve cells underlies diabetic neuropathy. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12525-12530.	3.3	64
50	Mammalian autophagy is essential for hepatic and renal ketogenesis during starvation. Scientific Reports, 2016, 6, 18944.	1.6	58
51	Adipophilin regulates maturation of cytoplasmic lipid droplets and alveolae in differentiating mammary glands. Journal of Cell Science, 2011, 124, 3247-3253.	1.2	57
52	A mammalian monothiol glutaredoxin, Grx3, is critical for cell cycle progression during embryogenesis. FEBS Journal, 2011, 278, 2525-2539.	2.2	54
53	Gene Therapy for Neuropathic Pain by Silencing of TNF-α Expression with Lentiviral Vectors Targeting the Dorsal Root Ganglion in Mice. PLoS ONE, 2014, 9, e92073.	1.1	54
54	Polyglycerol-functionalized nanodiamond as a platform for gene delivery: Derivatization, characterization, and hybridization with DNA. Beilstein Journal of Organic Chemistry, 2014, 10, 707-713.	1.3	52

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55	Transgenic rabbits with the integrated human 15-lipoxygenase gene driven by a lysozyme promoter: macrophage-specific expression and variable positional specificity of the transgenic enzyme FASEB Journal, 1995, 9, 1623-1631.	0.2	51
56	Development and rescue of human familial hypercholesterolaemia in a xenograft mouse model. Nature Communications, 2015, 6, 7339.	5.8	51
57	RNA editing: Exploring one mode with apolipoprotein B mRNA. BioEssays, 1993, 15, 33-41.	1.2	50
58	Reversal of hyperlipidaemia in apolipoprotein C1 transgenic mice by adenovirus-mediated gene delivery of the low-density-lipoprotein receptor, but not by the very-low-density-lipoprotein receptor. Biochemical Journal, 1999, 338, 281-287.	1.7	50
59	The PAT family of lipid droplet proteins in heart and vascular cells. Current Hypertension Reports, 2008, 10, 461-466.	1.5	50
60	PLIN2, the major perilipin regulated during sebocyte differentiation, controls sebaceous lipid accumulation in vitro and sebaceous gland size in vivo. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4642-4649.	1.1	48
61	Emerging roles of hematopoietic cells in the pathobiology of diabetic complications. Trends in Endocrinology and Metabolism, 2014, 25, 178-187.	3.1	47
62	PLIN2 is a Key Regulator of the Unfolded Protein Response and Endoplasmic Reticulum Stress Resolution in Pancreatic \hat{l}^2 Cells. Scientific Reports, 2017, 7, 40855.	1.6	47
63	Gene therapy for diabetes: reinventing the islet. Trends in Endocrinology and Metabolism, 2006, 17, 92-100.	3.1	44
64	Steroid Hormone Regulation of Specific Gene Expression. Vitamins and Hormones, 1979, 36, 259-295.	0.7	42
65	Deletion of hepatic carbohydrate response element binding protein (ChREBP) impairs glucose homeostasis and hepatic insulin sensitivity in mice. Molecular Metabolism, 2017, 6, 1381-1394.	3.0	42
66	Two polymorphisms for amino acid substitutions in the APOA4 gene. Nucleic Acids Research, 1990, 18, 4966-4966.	6.5	38
67	Regulation of Triglyceride Metabolism. III. Emerging role of lipid droplet protein ADFP in health and disease. American Journal of Physiology - Renal Physiology, 2007, 292, G1465-G1468.	1.6	38
68	Adiponectin is required for maintaining normal body temperature in a cold environment. BMC Physiology, 2017, 17, 8.	3.6	38
69	Nutrigenetic Disruption of Inflammation-Resolution Homeostasis and Atherogenesis. Journal of Nutrigenetics and Nutrigenomics, 2011, 4, 12-24.	1.8	37
70	FABP4-Cre Mediated Expression of Constitutively Active ChREBP Protects Against Obesity, Fatty Liver, and Insulin Resistance. Endocrinology, 2015, 156, 4020-4032.	1.4	37
71	ChREBP Regulates Itself and Metabolic Genes Implicated in Lipid Accumulation in β–Cell Line. PLoS ONE, 2016, 11, e0147411.	1.1	34
72	The ERα-PI3K Cascade in Proopiomelanocortin Progenitor Neurons Regulates Feeding and Glucose Balance in Female Mice. Endocrinology, 2015, 156, 4474-4491.	1.4	33

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73	Acute activation of GLP-1-expressing neurons promotes glucose homeostasis and insulin sensitivity. Molecular Metabolism, 2017, 6, 1350-1359.	3.0	32
74	Breast Carcinoma Epithelial Cells Express a Very Low-Density Lipoprotein Receptor Variant Lacking the O-Linked Glycosylation Domain Encoded by Exon 16, But with Full Binding Activity for Serine Proteinase/Serpin Complexes and Mr-40000 Receptor-Associated Protein. FEBS Journal, 1997, 248, 583-591.	0.2	31
75	Effects of High Fat Feeding and Diabetes on Regression of Atherosclerosis Induced by Low-Density Lipoprotein Receptor Gene Therapy in LDL Receptor-Deficient Mice. PLoS ONE, 2015, 10, e0128996.	1.1	30
76	Stem cell approaches for the treatment of type 1 diabetes mellitus. Translational Research, 2010, 156, $169-179$.	2.2	29
77	ROCK1 reduces mitochondrial content and irisin production in muscle suppressing adipocyte browning and impairing insulin sensitivity. Scientific Reports, 2016, 6, 29669.	1.6	28
78	In vivo gene therapy for diabetes mellitus. Trends in Molecular Medicine, 2003, 9, 430-435.	3.5	27
79	Pathogenesis of diabetic neuropathy: bad to the bone. Annals of the New York Academy of Sciences, 2011, 1240, 70-76.	1.8	26
80	Effective Lowering of Plasma, LDL, and Esterified Cholesterol in LDL Receptor–Knockout Mice by Adenovirus-Mediated Gene Delivery of ApoB mRNA Editing Enzyme (Apobec1). Arteriosclerosis, Thrombosis, and Vascular Biology, 1997, 17, 889-897.	1.1	26
81	Structure and conformational analysis of lipid-associating peptides of apolipoprotein B-100 produced by trypsinolysis. The Protein Journal, 1989, 8, 689-699.	1.1	25
82	Nutrigenetics and Nutrigenomics of Atherosclerosis. Current Atherosclerosis Reports, 2013, 15, 328.	2.0	24
83	A proatherogenic role for C-reactive protein in vivo. Current Opinion in Lipidology, 2005, 16, 512-517.	1.2	23
84	Extrapancreatic Proinsulin/Insulin-expressing Cells in Diabetes Mellitus: Is History Repeating Itself?. Endocrine Journal, 2006, 53, 715-722.	0.7	23
85	Gene Therapy Targeting LDL Cholesterol but not HDL Cholesterol Induces Regression of Advanced Atherosclerosis in a Mouse Model of Familial Hypercholesterolemia. Journal of Genetic Syndromes & Gene Therapy, 2011, 2, 106.	0.2	23
86	Hyperglycemia induces abnormal gene expression in hematopoietic stem cells and their progeny in diabetic neuropathy. FEBS Letters, 2014, 588, 1080-1086.	1.3	22
87	PD-L1–Driven Tolerance Protects Neurogenin3-Induced Islet Neogenesis to Reverse Established Type 1 Diabetes in NOD Mice. Diabetes, 2015, 64, 529-540.	0.3	21
88	Cloning and sequencing of bovine apolipoprotein E complementary DNA and molecular evolution of apolipoproteins E, C-I, and C-II. Journal of Molecular Evolution, 1991, 32, 469-475.	0.8	20
89	\hat{l}^22 integrins modulate the initiation and progression of atherosclerosis in low-density lipoprotein receptor knockout mice. Cardiovascular Research, 2010, 85, 853-863.	1.8	18
90	Hammerhead Ribozyme as a Therapeutic Agent for Hyperlipidemia: Production of Truncated Apolipoprotein B and Hypolipidemic Effects in a Dyslipidemia Murine Model. Human Gene Therapy, 2000, 11, 2415-2430.	1.4	15

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91	Microarray gene profiling of laser-captured cells: A new tool to study atherosclerosis in mice. Atherosclerosis, 2008, 200, 257-263.	0.4	15
92	Differential Gene Dosage Effects of Diabetes-Associated Gene GLIS3 in Pancreatic \hat{l}^2 Cell Differentiation and Function. Endocrinology, 2017, 158, 9-20.	1.4	14
93	Primary sequence mapping of human apolipoprotein B-100 epitopes. Comparisons of trypsin accessibility and immunoreactivity and implication for apoB conformation. FEBS Journal, 1988, 175, 111-118.	0.2	13
94	Regulation of apo B mRNA expression in liver and intestine during liver regeneration induced by CCl4. Lipids and Lipid Metabolism, 1994, 1211, 1-6.	2.6	12
95	Proinsulin-producing, hyperglycemia-induced adipose tissue macrophages underlie insulin resistance in high fat-fed diabetic mice. FASEB Journal, 2015, 29, 3537-3548.	0.2	12
96	Ubc9 Impairs Activation of the Brown Fat Energy Metabolism Program in Human White Adipocytes. Molecular Endocrinology, 2015, 29, 1320-1333.	3.7	10
97	Loss of glutaredoxin 3 impedes mammary lobuloalveolar development during pregnancy and lactation. American Journal of Physiology - Endocrinology and Metabolism, 2017, 312, E136-E149.	1.8	9
98	Gene therapy for neuropathic pain using dorsal root ganglion–targeted helper-dependent adenoviral vectors with GAD67 expression. Pain Reports, 2018, 3, e695.	1.4	9
99	Chronic diabetic complications: the body's adaptive response to hyperglycemia gone awry?. Transactions of the American Clinical and Climatological Association, 2006, 117, 341-51; discussion 351-2.	0.9	9
100	Effects of estrogen on very low density lipoproteins (VLDL) synthesis in avian liver slices in vitro: Lack of correlation with nuclear estrogen receptors. The Journal of Steroid Biochemistry, 1977, 8, 1189-1191.	1.3	8
101	Liver-directed gene therapy for dyslipidemia and diabetes. Current Atherosclerosis Reports, 2004, 6, 203-209.	2.0	8
102	Apolipoprotein B mRNA Editing. , 2014, , 325-342.		8
103	Isolation of specific peptides that home to dorsal root ganglion neurons in mice. Neuroscience Letters, 2008, 434, 266-272.	1.0	6
104	Ablation of a small subpopulation of diabetes-specific bone marrow-derived cells in mice protects against diabetic neuropathy. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E269-E275.	1.8	6
105	Anti-TCRÎ 2 mAb in Combination With Neurogenin3 Gene Therapy Reverses Established Overt Type 1 Diabetes in Female NOD Mice. Endocrinology, 2017, 158, 3140-3151.	1.4	6
106	Mutations in the apolipoprotein B-100 gene: An important underlying cause of familially transmitted hypercholesterolemia and premature arteriosclerosis?. American Journal of Cardiology, 1989, 63, 740-742.	0.7	4
107	The structure of the human apolipoprotein genes. Hepatology, 1987, 7, 56S-60S.	3.6	1
108	GLPâ€2 receptor is required for glucose homeostasis and energy balance. FASEB Journal, 2013, 27, 1160.8.	0.2	1

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109	Glucagonâ€like Peptideâ€2 Activates the mTOR Signaling Through a Pl3â€kinaseâ€Akt―dependent Pathway. FA Journal, 2007, 21, A1075.	SEB 0.2	1
110	USE OF A VISUAL COMPARATIVE METHOD TO RESOLVE CONSERVED SEQUENCE MOTIFS IN PROTEINS. , 1993, , .		0
111	Helperâ€Dependent Adenoviral Vectors. Current Protocols in Human Genetics, 2004, 43, 12.13.1.	3.5	0
112	Atherosclerosis in Experimental Animal Models., 0,, 427-432.		0
113	Response to Comment on "A Peptidomimetic Targeting White Fat Causes Weight Loss and Improved Insulin Resistance in Obese Monkeys― Science Translational Medicine, 2012, 4, .	5.8	0
114	Gene Therapy for Diabetes. , 2015, , 115-128.		0
115	Adiponectin is Expressed in Skeletal Muscle and Influences Muscle Phenotype and Function. FASEB Journal, 2008, 22, .	0.2	0
116	Molecular Therapy for Type 1 and Type 2 Diabetes. , 2008, , .		0
117	Abstract 6255: Adiponectin Deficiency Profoundly Exacerbates Sepsis-Related Mortality through Endothelial Activation: A Novel Mechanistic Link between Adiposity and Sepsis. Circulation, 2008, 118, .	1.6	O
118	GLPâ€2 receptor deficiency in the mouse brain impairs glucose homeostasis. FASEB Journal, 2011, 25, 1062.14.	0.2	0
119	POMCâ€GLPâ€2R signaling and action in the control of feeding behavior and gastric motility. FASEB Journal, 2012, 26, 701.16.	0.2	0
120	SIRT1 acutely modulates glucose sensing of POMC neurons in the hypothalamus. FASEB Journal, 2012, 26, 1094.5.	0.2	0
121	Structure and Functional Domains of Human Apolipoprotein B-100: A Strategy to Elucidate the Structure Information of a Large Protein., 1989,, 466-474.		0
122	Abstract 12189: Molecular Mechanisms Underlying Fasting Modulated Liver Insulin Sensitivity and Metabolism in Male Lipodystrophic Bscl2/Seipin-Deficient Mice. Circulation, 2014, 130, .	1.6	0
123	Molecular Therapy for Type 1 and Type 2 Diabetes. , 2015, , 965-982.		0