

# Feng Liu

## List of Publications by Year in descending order

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82  
papers

5,655  
citations

76326

40  
h-index

82547

72  
g-index

83  
all docs

83  
docs citations

83  
times ranked

7706  
citing authors

#	ARTICLE	IF	CITATIONS
1	APPL1 binds to adiponectin receptors and mediates adiponectin signalling and function. <i>Nature Cell Biology</i> , 2006, 8, 516-523.	10.3	581
2	Nuclear cGAS suppresses DNA repair and promotes tumorigenesis. <i>Nature</i> , 2018, 563, 131-136.	27.8	412
3	A disulfide-bond A oxidoreductase-like protein (DsbA-L) regulates adiponectin multimerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18302-18307.	7.1	188
4	DsbA-L prevents obesity-induced inflammation and insulin resistance by suppressing the mtDNA release-activated cGAS-cGAMP-STING pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12196-12201.	7.1	185
5	Adiponectin Sensitizes Insulin Signaling by Reducing p70 S6 Kinase-mediated Serine Phosphorylation of IRS-1. <i>Journal of Biological Chemistry</i> , 2007, 282, 7991-7996.	3.4	179
6	Adiponectin Activates AMP-activated Protein Kinase in Muscle Cells via APPL1/LKB1-dependent and Phospholipase C/Ca <sup>2+</sup> /Ca <sup>2+</sup> /Calmodulin-dependent Protein Kinase Kinase-dependent Pathways. <i>Journal of Biological Chemistry</i> , 2009, 284, 22426-22435.	3.4	178
7	Resveratrol Inhibits mTOR Signaling by Promoting the Interaction between mTOR and DEPTOR. <i>Journal of Biological Chemistry</i> , 2010, 285, 36387-36394.	3.4	154
8	Adiponectin is critical in determining susceptibility to depressive behaviors and has antidepressant-like activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12248-12253.	7.1	145
9	The cGAS-cGAMP-STING Pathway: A Molecular Link Between Immunity and Metabolism. <i>Diabetes</i> , 2019, 68, 1099-1108.	0.6	145
10	Yin-Yang Regulation of Adiponectin Signaling by APPL Isoforms in Muscle Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 31608-31615.	3.4	126
11	Peripheral Disruption of the Grb10 Gene Enhances Insulin Signaling and Sensitivity In Vivo. <i>Molecular and Cellular Biology</i> , 2007, 27, 6497-6505.	2.3	125
12	Mechanism of Phosphorylation of Protein Kinase B/Akt by a Constitutively Active 3-Phosphoinositide-dependent Protein Kinase-1. <i>Journal of Biological Chemistry</i> , 2000, 275, 40400-40406.	3.4	116
13	Regulation of adiponectin multimerization, signaling and function. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2014, 28, 25-31.	4.7	115
14	Recent Advances in Adipose mTOR Signaling and Function: Therapeutic Prospects. <i>Trends in Pharmacological Sciences</i> , 2016, 37, 303-317.	8.7	112
15	APPL1 Potentiates Insulin Sensitivity by Facilitating the Binding of IRS1/2 to the Insulin Receptor. <i>Cell Reports</i> , 2014, 7, 1227-1238.	6.4	107
16	Grb10 Inhibits Insulin-stimulated Insulin Receptor Substrate (IRS)-Phosphatidylinositol 3-Kinase/Akt Signaling Pathway by Disrupting the Association of IRS-1/IRS-2 with the Insulin Receptor. <i>Journal of Biological Chemistry</i> , 2003, 278, 8460-8467.	3.4	106
17	Grb10 Promotes Lipolysis and Thermogenesis by Phosphorylation-Dependent Feedback Inhibition of mTORC1. <i>Cell Metabolism</i> , 2014, 19, 967-980.	16.2	106
18	DsbA-L Alleviates Endoplasmic Reticulum Stress-Induced Adiponectin Downregulation. <i>Diabetes</i> , 2010, 59, 2809-2816.	0.6	105

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19	miR-30 Promotes Thermogenesis and the Development of Beige Fat by Targeting RIP140. <i>Diabetes</i> , 2015, 64, 2056-2068.	0.6	103
20	Glucocorticoids Transcriptionally Regulate miR-27b Expression Promoting Body Fat Accumulation Via Suppressing the Browning of White Adipose Tissue. <i>Diabetes</i> , 2015, 64, 393-404.	0.6	100
21	Mitochondrial stress: A bridge between mitochondrial dysfunction and metabolic diseases?. <i>Cellular Signalling</i> , 2011, 23, 1528-1533.	3.6	95
22	Primary Structure, Tissue Distribution, and Expression of Mouse Phosphoinositide-dependent Protein Kinase-1, a Protein Kinase That Phosphorylates and Activates Protein Kinase C $\alpha$ . <i>Journal of Biological Chemistry</i> , 1999, 274, 8117-8122.	3.4	86
23	Up-regulation of Adiponectin by Resveratrol. <i>Journal of Biological Chemistry</i> , 2011, 286, 60-66.	3.4	83
24	APPL1 mediates adiponectin-stimulated p38 MAPK activation by scaffolding the TAK1-MKK3-p38 MAPK pathway. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 300, E103-E110.	3.5	80
25	Tissue-specific insulin signaling in the regulation of metabolism and aging. <i>IUBMB Life</i> , 2014, 66, 485-495.	3.4	70
26	Cloning, Chromosome Localization, Expression, and Characterization of an Src Homology 2 and Pleckstrin Homology Domain-containing Insulin Receptor Binding Protein hGrb10 $\beta$ . <i>Journal of Biological Chemistry</i> , 1997, 272, 29104-29112.	3.4	69
27	Fat-Specific DsbA-L Overexpression Promotes Adiponectin Multimerization and Protects Mice From Diet-Induced Obesity and Insulin Resistance. <i>Diabetes</i> , 2012, 61, 2776-2786.	0.6	67
28	STING expression in monocyte-derived macrophages is associated with the progression of liver inflammation and fibrosis in patients with nonalcoholic fatty liver disease. <i>Laboratory Investigation</i> , 2020, 100, 542-552.	3.7	64
29	Mouse 3-Phosphoinositide-dependent Protein Kinase-1 Undergoes Dimerization and trans-Phosphorylation in the Activation Loop. <i>Journal of Biological Chemistry</i> , 2003, 278, 42913-42919.	3.4	61
30	Grb10: more than a simple adaptor protein. <i>Frontiers in Bioscience - Landmark</i> , 2004, 9, 387.	3.0	57
31	The role of insulin and insulin-like growth factor-I in mammalian ageing. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2004, 18, 393-406.	4.7	57
32	Autophagy. <i>Autophagy</i> , 2010, 6, 1196-1197.	9.1	54
33	Hypothalamic roles of mTOR complex I: integration of nutrient and hormone signals to regulate energy homeostasis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 310, E994-E1002.	3.5	54
34	Disulfide-bond A oxidoreductase-like protein protects against ectopic fat deposition and lipid-related kidney damage in diabetic nephropathy. <i>Kidney International</i> , 2019, 95, 880-895.	5.2	54
35	Identification of miR-106b-93 as a negative regulator of brown adipocyte differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2013, 438, 575-580.	2.1	53
36	Grb10 mediates insulin-stimulated degradation of the insulin receptor: a mechanism of negative regulation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2006, 290, E1262-E1266.	3.5	51

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37	DsbA-L mediated renal tubulointerstitial fibrosis in UUO mice. <i>Nature Communications</i> , 2020, 11, 4467.	12.8	51
38	Mitochondrial stress-activated cGAS-STING pathway inhibits thermogenic program and contributes to overnutrition-induced obesity in mice. <i>Communications Biology</i> , 2020, 3, 257.	4.4	50
39	Up- and down-regulation of adiponectin expression and multimerization: Mechanisms and therapeutic implication. <i>Biochimie</i> , 2012, 94, 2126-2130.	2.6	49
40	Estrogen receptor- $\beta$ expressing neurons in the ventrolateral VMH regulate glucose balance. <i>Nature Communications</i> , 2020, 11, 2165.	12.8	48
41	Site-Directed Mutagenesis and Yeast Two-Hybrid Studies of the Insulin and Insulin-Like Growth Factor-1 Receptors: The Src Homology-2 Domain-Containing Protein hGrb10 Binds to the Autophosphorylated Tyrosine Residues in the Kinase Domain of the Insulin Receptor. <i>Molecular Endocrinology</i> , 1997, 11, 1757-1765.	3.7	43
42	cGAS-STING signaling and function in metabolism and kidney diseases. <i>Journal of Molecular Cell Biology</i> , 2021, 13, 728-738.	3.3	42
43	Substitution of the Autophosphorylation Site Thr516 with a Negatively Charged Residue Confers Constitutive Activity to Mouse 3-Phosphoinositide-dependent Protein Kinase-1 in Cells. <i>Journal of Biological Chemistry</i> , 2002, 277, 16632-16638.	3.4	40
44	Disruption of Growth Factor Receptor-Binding Protein 10 in the Pancreas Enhances $\beta$ -Cell Proliferation and Protects Mice From Streptozotocin-Induced $\beta$ -Cell Apoptosis. <i>Diabetes</i> , 2012, 61, 3189-3198.	0.6	40
45	Common and distinct regulation of human and mouse brown and beige adipose tissues: a promising therapeutic target for obesity. <i>Protein and Cell</i> , 2017, 8, 446-454.	11.0	39
46	Rheb Inhibits Beiging of White Adipose Tissue via PDE4D5-Dependent Downregulation of the cAMP-PKA Signaling Pathway. <i>Diabetes</i> , 2017, 66, 1198-1213.	0.6	39
47	Obesity-Associated miR-199a/214 Cluster Inhibits Adipose Browning via PRDM16-PCG-1 Transcriptional Network. <i>Diabetes</i> , 2018, 67, 2585-2600.	0.6	39
48	Protein Kinase C $\zeta$ (PKC $\zeta$ )-dependent Phosphorylation of PDK1 at Ser504 and Ser532 Contributes to Palmitate-induced Insulin Resistance. <i>Journal of Biological Chemistry</i> , 2009, 284, 2038-2044.	3.4	37
49	Endoplasmic Reticulum (ER) Localization Is Critical for DsbA-L Protein to Suppress ER Stress and Adiponectin Down-regulation in Adipocytes. <i>Journal of Biological Chemistry</i> , 2015, 290, 10143-10148.	3.4	36
50	Roles of PDK-1 and PKN in regulating cell migration and cortical actin formation of PTEN-knockout cells. <i>Oncogene</i> , 2004, 23, 9348-9358.	5.9	35
51	Adiponectin restrains ILC2 activation by AMPK-mediated feedback inhibition of IL-33 signaling. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	35
52	Regulation, Communication, and Functional Roles of Adipose Tissue-Resident CD4+ T Cells in the Control of Metabolic Homeostasis. <i>Frontiers in Immunology</i> , 2018, 9, 1961.	4.8	34
53	Insulin Stimulates Increased Catalytic Activity of Phosphoinositide-Dependent Kinase-1 by a Phosphorylation-Dependent Mechanism. <i>Biochemistry</i> , 2001, 40, 11851-11859.	2.5	33
54	Targeting tissue-specific metabolic signaling pathways in aging: the promise and limitations. <i>Protein and Cell</i> , 2014, 5, 21-35.	11.0	32

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55	Defective Phosphatidylglycerol Remodeling Causes Hepatopathy, Linking Mitochondrial Dysfunction to Hepatosteatosis. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2019, 7, 763-781.	4.5	32
56	LRG1 is an adipokine that mediates obesity-induced hepatosteatosis and insulin resistance. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	30
57	Proliferative and Antiapoptotic Signaling Stimulated by Nuclear-Localized PDK1 Results in Oncogenesis. <i>Science Signaling</i> , 2012, 5, ra80.	3.6	29
58	Nuclear cGAS: sequestration and beyond. <i>Protein and Cell</i> , 2022, 13, 90-101.	11.0	27
59	Cathelicidin aggravates myocardial ischemia/reperfusion injury via activating TLR4 signaling and P2X7R/NLRP3 inflammasome. <i>Journal of Molecular and Cellular Cardiology</i> , 2020, 139, 75-86.	1.9	26
60	Lipid metabolism and endometrial receptivity. <i>Human Reproduction Update</i> , 2022, 28, 858-889.	10.8	26
61	Recent Advances in Adipose Tissue Dysfunction and Its Role in the Pathogenesis of Non-Alcoholic Fatty Liver Disease. <i>Cells</i> , 2021, 10, 3300.	4.1	25
62	Fine Tuning PDK1 Activity by Phosphorylation at Ser163. <i>Journal of Biological Chemistry</i> , 2006, 281, 21588-21593.	3.4	23
63	Adiponectin Alleviates Diet-Induced Inflammation in the Liver by Suppressing MCP-1 Expression and Macrophage Infiltration. <i>Diabetes</i> , 2021, 70, 1303-1316.	0.6	22
64	Hepatic DsbA $\alpha$ protects mice from diet $\alpha$ induced hepatosteatosis and insulin resistance. <i>FASEB Journal</i> , 2017, 31, 2314-2326.	0.5	21
65	Resveratrol inhibits mTOR signaling by targeting DEPTOR. <i>Communicative and Integrative Biology</i> , 2011, 4, 382-384.	1.4	19
66	Rheb (Ras Homolog Enriched in Brain 1) Deficiency in Mature Macrophages Prevents Atherosclerosis by Repressing Macrophage Proliferation, Inflammation, and Lipid Uptake. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 1787-1801.	2.4	19
67	The miR-182-5p/FGF21/acetylcholine axis mediates the crosstalk between adipocytes and macrophages to promote beige fat thermogenesis. <i>JCI Insight</i> , 2021, 6, .	5.0	19
68	The De-, Re-, and trans-differentiation of $\beta^2$ -cells: Regulation and function. <i>Seminars in Cell and Developmental Biology</i> , 2020, 103, 68-75.	5.0	18
69	De-silencing Grb10 contributes to acute ER stress-induced steatosis in mouse liver. <i>Journal of Molecular Endocrinology</i> , 2018, 60, 285-297.	2.5	17
70	NFATc3 deficiency reduces the classical activation of adipose tissue macrophages. <i>Journal of Molecular Endocrinology</i> , 2018, 61, 79-89.	2.5	17
71	Phosphorylation of Grb10 by Mitogen-Activated Protein Kinase: Identification of Ser150 and Ser476 of Human Grb10 as Major Phosphorylation Sites. <i>Biochemistry</i> , 2005, 44, 8890-8897.	2.5	14
72	Feedback regulation of mTORC1 by Grb10 in metabolism and beyond. <i>Cell Cycle</i> , 2014, 13, 2643-2644.	2.6	13

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73	Potential Roles of Adiponectin Isoforms in Human Obesity with Delayed Wound Healing. <i>Cells</i> , 2019, 8, 1134.	4.1	13
74	Adipocyte-derived PGE2 is required for intermittent fasting-induced Treg proliferation and improvement of insulin sensitivity. <i>JCI Insight</i> , 2022, 7, .	5.0	13
75	Alternative splicing variant of the scaffold protein APPL1 suppresses hepatic adiponectin signaling and function. <i>Journal of Biological Chemistry</i> , 2018, 293, 6064-6074.	3.4	12
76	DsbA-L deficiency in T cells promotes diet-induced thermogenesis through suppressing IFN- $\gamma$ production. <i>Nature Communications</i> , 2021, 12, 326.	12.8	12
77	Ursolic Acid Inhibits Leucine-Stimulated mTORC1 Signaling by Suppressing mTOR Localization to Lysosome. <i>PLoS ONE</i> , 2014, 9, e95393.	2.5	12
78	Rheb1 promotes glucose-stimulated insulin secretion in human and mouse $\beta$ -cells by upregulating GLUT expression. <i>Metabolism: Clinical and Experimental</i> , 2021, 123, 154863.	3.4	10
79	Regulation of energy metabolism and maintenance of metabolic homeostasis: the adiponectin story after 20 years. <i>Journal of Molecular Cell Biology</i> , 2016, 8, 91-92.	3.3	7
80	The Yin and Yang function of microRNAs in insulin signalling and cancer. <i>RNA Biology</i> , 2021, 18, 24-32.	3.1	7
81	Rheb promotes brown fat thermogenesis by Notch-dependent activation of the PKA signaling pathway. <i>Journal of Molecular Cell Biology</i> , 2019, 11, 781-790.	3.3	6
82	T cell metabolism in obesity and beyond: comments on "DsbA-L deficiency in T cells promotes diet-induced thermogenesis through suppressing IFN- $\gamma$ production". <i>Journal of Molecular Cell Biology</i> , 2021, 13, 389-391.	3.3	1