

# Bingzhong Xue

## List of Publications by Citations

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64  
papers

4,661  
citations

31  
h-index

68  
g-index

73  
ext. papers

5,331  
ext. citations

7  
avg, IF

5.17  
L-index

#	Paper	IF	Citations
64	AMP-kinase regulates food intake by responding to hormonal and nutrient signals in the hypothalamus. <i>Nature</i> , <b>2004</b> , 428, 569-74	50.4	1295
63	Neuronal PTP1B regulates body weight, adiposity and leptin action. <i>Nature Medicine</i> , <b>2006</b> , 12, 917-24	50.5	484
62	AMPK integrates nutrient and hormonal signals to regulate food intake and energy balance through effects in the hypothalamus and peripheral tissues. <i>Journal of Physiology</i> , <b>2006</b> , 574, 73-83	3.9	245
61	Genetic variability affects the development of brown adipocytes in white fat but not in interscapular brown fat. <i>Journal of Lipid Research</i> , <b>2007</b> , 48, 41-51	6.3	221
60	Mechanism of intracellular calcium ([Ca <sup>2+</sup> ] <sub>i</sub> ) inhibition of lipolysis in human adipocytes. <i>FASEB Journal</i> , <b>2001</b> , 15, 2527-9	0.9	167
59	Transcriptional synergy and the regulation of Ucp1 during brown adipocyte induction in white fat depots. <i>Molecular and Cellular Biology</i> , <b>2005</b> , 25, 8311-22	4.8	147
58	Lipolysis in Brown Adipocytes Is Not Essential for Cold-Induced Thermogenesis in Mice. <i>Cell Metabolism</i> , <b>2017</b> , 26, 764-777.e5	24.6	139
57	Omega-3 polyunsaturated fatty acids antagonize macrophage inflammation via activation of AMPK/SIRT1 pathway. <i>PLoS ONE</i> , <b>2012</b> , 7, e45990	3.7	125
56	Epigenetic regulation of macrophage polarization by DNA methyltransferase 3b. <i>Molecular Endocrinology</i> , <b>2014</b> , 28, 565-74		124
55	CGI-58 knockdown in mice causes hepatic steatosis but prevents diet-induced obesity and glucose intolerance. <i>Journal of Lipid Research</i> , <b>2010</b> , 51, 3306-15	6.3	114
54	Inhibiting DNA Methylation by 5-Aza-2-Deoxycytidine ameliorates atherosclerosis through suppressing macrophage inflammation. <i>Endocrinology</i> , <b>2014</b> , 155, 4925-38	4.8	106
53	Epigenetic regulation of macrophage polarization and inflammation by DNA methylation in obesity. <i>JCI Insight</i> , <b>2016</b> , 1, e87748	9.9	99
52	Activation of the cholinergic antiinflammatory pathway ameliorates obesity-induced inflammation and insulin resistance. <i>Endocrinology</i> , <b>2011</b> , 152, 836-46	4.8	90
51	Macrophage CGI-58 deficiency activates ROS-inflammasome pathway to promote insulin resistance in mice. <i>Cell Reports</i> , <b>2014</b> , 7, 223-35	10.6	68
50	Loss of abhd5 promotes colorectal tumor development and progression by inducing aerobic glycolysis and epithelial-mesenchymal transition. <i>Cell Reports</i> , <b>2014</b> , 9, 1798-1811	10.6	66
49	Neuronal protein tyrosine phosphatase 1B deficiency results in inhibition of hypothalamic AMPK and isoform-specific activation of AMPK in peripheral tissues. <i>Molecular and Cellular Biology</i> , <b>2009</b> , 29, 4563-73	4.8	66
48	The ER-associated degradation adaptor protein Sel1L regulates LPL secretion and lipid metabolism. <i>Cell Metabolism</i> , <b>2014</b> , 20, 458-70	24.6	62

47	Histone Deacetylase 1 (HDAC1) Negatively Regulates Thermogenic Program in Brown Adipocytes via Coordinated Regulation of Histone H3 Lysine 27 (H3K27) Deacetylation and Methylation. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 4523-36	5.4	61
46	The Histone Demethylase UTX Promotes Brown Adipocyte Thermogenic Program Via Coordinated Regulation of H3K27 Demethylation and Acetylation. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 25151-63	5.4	53
45	Thermoneutrality decreases thermogenic program and promotes adiposity in high-fat diet-fed mice. <i>Physiological Reports</i> , <b>2016</b> , 4, e12799	2.6	53
44	Regulation of insulin and leptin signaling by muscle suppressor of cytokine signaling 3 (SOCS3). <i>PLoS ONE</i> , <b>2012</b> , 7, e47493	3.7	52
43	Macrophage ABHD5 promotes colorectal cancer growth by suppressing spermidine production by SRM. <i>Nature Communications</i> , <b>2016</b> , 7, 11716	17.4	50
42	Deficiency of liver Comparative Gene Identification-58 causes steatohepatitis and fibrosis in mice. <i>Journal of Lipid Research</i> , <b>2013</b> , 54, 2109-2120	6.3	50
41	Protein-tyrosine phosphatase 1B deficiency reduces insulin resistance and the diabetic phenotype in mice with polygenic insulin resistance. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 23829-40	5.4	50
40	Separate and shared sympathetic outflow to white and brown fat coordinately regulates thermoregulation and beige adipocyte recruitment. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2017</b> , 312, R132-R145	3.2	44
39	The full capacity of AICAR to reduce obesity-induced inflammation and insulin resistance requires myeloid SIRT1. <i>PLoS ONE</i> , <b>2012</b> , 7, e49935	3.7	40
38	Lipolysis sensation by white fat afferent nerves triggers brown fat thermogenesis. <i>Molecular Metabolism</i> , <b>2016</b> , 5, 626-634	8.8	40
37	Interaction between metformin and leucine in reducing hyperlipidemia and hepatic lipid accumulation in diet-induced obese mice. <i>Metabolism: Clinical and Experimental</i> , <b>2015</b> , 64, 1426-34	12.7	36
36	Inhibiting DNA methylation switches adipogenesis to osteoblastogenesis by activating Wnt10a. <i>Scientific Reports</i> , <b>2016</b> , 6, 25283	4.9	36
35	Sequestration of thermogenic transcription factors in the cytoplasm during development of brown adipose tissue. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 25916-26	5.4	36
34	Relationship between human adipose tissue agouti and fatty acid synthase (FAS). <i>Journal of Nutrition</i> , <b>2000</b> , 130, 2478-81	4.1	36
33	Myeloid Deletion of AMPK Exacerbates Atherosclerosis in LDL Receptor Knockout (LDLRKO) Mice. <i>Diabetes</i> , <b>2016</b> , 65, 1565-76	0.9	29
32	Leucine amplifies the effects of metformin on insulin sensitivity and glycemic control in diet-induced obese mice. <i>Metabolism: Clinical and Experimental</i> , <b>2015</b> , 64, 845-56	12.7	28
31	DNA Methylation Biphasically Regulates 3T3-L1 Preadipocyte Differentiation. <i>Molecular Endocrinology</i> , <b>2016</b> , 30, 677-87		28
30	Bidirectional crosstalk between the sensory and sympathetic motor systems innervating brown and white adipose tissue in male Siberian hamsters. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2017</b> , 312, R324-R337	3.2	26

29	Neonatal Inhibition of DNA Methylation Alters Cell Phenotype in Sexually Dimorphic Regions of the Mouse Brain. <i>Endocrinology</i> , <b>2017</b> , 158, 1838-1848	4.8	24
28	Sympathetic nerve innervation is required for beigeing in white fat. <i>Physiological Reports</i> , <b>2019</b> , 7, e140316		23
27	Intestinal Cgi-58 deficiency reduces postprandial lipid absorption. <i>PLoS ONE</i> , <b>2014</b> , 9, e91652	3.7	23
26	Epigenetic regulation of E-cadherin expression by the histone demethylase UTX in colon cancer cells. <i>Medical Oncology</i> , <b>2016</b> , 33, 21	3.7	22
25	Class I and II Histone Deacetylase Inhibitors Differentially Regulate Thermogenic Gene Expression in Brown Adipocytes. <i>Scientific Reports</i> , <b>2018</b> , 8, 13072	4.9	19
24	Agouti/melanocortin interactions with leptin pathways in obesity. <i>Nutrition Reviews</i> , <b>1998</b> , 56, 271-4	6.4	18
23	Short photoperiod reverses obesity in Siberian hamsters via sympathetically induced lipolysis and Browning in adipose tissue. <i>Physiology and Behavior</i> , <b>2018</b> , 190, 11-20	3.5	17
22	A Combination of Leucine, Metformin, and Sildenafil Treats Nonalcoholic Fatty Liver Disease and Steatohepatitis in Mice. <i>International Journal of Hepatology</i> , <b>2016</b> , 2016, 9185987	2.7	17
21	Macrophage CGI-58 deficiency promotes IL-1 $\beta$ transcription by activating the SOCS3-FOXO1 pathway. <i>Clinical Science</i> , <b>2015</b> , 128, 493-506	6.5	16
20	Interaction between leucine and phosphodiesterase 5 inhibition in modulating insulin sensitivity and lipid metabolism. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , <b>2015</b> , 8, 227-39	3.4	16
19	Genetic demonstration of intestinal NPC1L1 as a major determinant of hepatic cholesterol and blood atherogenic lipoprotein levels. <i>Atherosclerosis</i> , <b>2014</b> , 237, 609-17	3.1	13
18	Sensory denervation of inguinal white fat modifies sympathetic outflow to white and brown fat in Siberian hamsters. <i>Physiology and Behavior</i> , <b>2018</b> , 190, 28-33	3.5	12
17	What activates thermogenesis when lipid droplet lipolysis is absent in brown adipocytes?. <i>Adipocyte</i> , <b>2018</b> , 1-5	3.2	10
16	Neuronal Dnmt1 Deficiency Attenuates Diet-Induced Obesity in Mice. <i>Endocrinology</i> , <b>2018</b> , 159, 145-162	4.8	9
15	Mechanisms for AgRP neuron-mediated regulation of appetitive behaviors in rodents. <i>Physiology and Behavior</i> , <b>2018</b> , 190, 34-42	3.5	8
14	Ghrelin receptor in agouti-related peptide neurones regulates metabolic adaptation to calorie restriction. <i>Journal of Neuroendocrinology</i> , <b>2019</b> , 31, e12763	3.8	8
13	Leucine-nicotinic acid synergy stimulates AMPK/Sirt1 signaling and regulates lipid metabolism and lifespan in <i>Caenorhabditis elegans</i> , and hyperlipidemia and atherosclerosis in mice. <i>American Journal of Cardiovascular Disease</i> , <b>2017</b> , 7, 33-47	0.9	8
12	Endogenously determined restriction of food intake overcomes excitation-contraction uncoupling in JP45KO mice with aging. <i>Experimental Gerontology</i> , <b>2012</b> , 47, 304-16	4.5	6

11	Postnatal leptin surge is critical for the transient induction of the developmental beige adipocytes in mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2020</b> , 318, E453-E461	6	5
10	AgRP knockdown blocks long-term appetitive, but not consummatory, feeding behaviors in Siberian hamsters. <i>Physiology and Behavior</i> , <b>2018</b> , 190, 61-70	3.5	4
9	Association of SSTR2 polymorphisms and glucose homeostasis phenotypes: the Insulin Resistance Atherosclerosis Family Study. <i>Diabetes</i> , <b>2009</b> , 58, 1457-62	0.9	3
8	Activation of the sympathetic nervous system suppresses mouse white adipose tissue hyperplasia through the $\alpha$ adrenergic receptor. <i>Physiological Reports</i> , <b>2018</b> , 6, e13645	2.6	3
7	N-Linked Glycosylation Prevents Deamidation of Glycopeptide and Glycoprotein. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 3197-3205	4.9	2
6	Adipose tissue-derived neurotrophic factor 3 regulates sympathetic innervation and thermogenesis in adipose tissue. <i>Nature Communications</i> , <b>2021</b> , 12, 5362	17.4	2
5	Agouti signaling protein stimulates islet amyloid polypeptide (amylin) secretion in pancreatic beta-cells. <i>Experimental Biology and Medicine</i> , <b>2001</b> , 226, 565-9	3.7	1
4	Epigenetic interaction between UTX and DNMT1 regulates diet-induced myogenic remodeling in brown fat. <i>Nature Communications</i> , <b>2021</b> , 12, 6838	17.4	1
3	Epigenetic Interaction between UTX and DNMT1 Regulates Diet-Induced Myogenic Remodeling in Brown Fat		1
2	The histone methyltransferase Suv39h regulates 3T3-L1 adipogenesis. <i>Adipocyte</i> , <b>2020</b> , 9, 401-414	3.2	1
1	Synergistic effects of leucine with phosphodiesterase 5 inhibition on insulin sensitivity (1035.4). <i>FASEB Journal</i> , <b>2014</b> , 28, 1035.4	0.9	