

Bingzhong Xue

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

5,770
citations

117619

34
h-index

91872

69
g-index

73
all docs

73
docs citations

73
times ranked

8365
citing authors

#	ARTICLE	IF	CITATIONS
1	AMP-kinase regulates food intake by responding to hormonal and nutrient signals in the hypothalamus. <i>Nature</i> , 2004, 428, 569-574.	27.8	1,464
2	Neuronal PTP1B regulates body weight, adiposity and leptin action. <i>Nature Medicine</i> , 2006, 12, 917-924.	30.7	533
3	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> , 2006, 574, 73-83.	2.9	284
4	Genetic variability affects the development of brown adipocytes in white fat but not in interscapular brown fat. <i>Journal of Lipid Research</i> , 2007, 48, 41-51.	4.2	250
5	Lipolysis in Brown Adipocytes Is Not Essential for Cold-Induced Thermogenesis in Mice. <i>Cell Metabolism</i> , 2017, 26, 764-777.e5.	16.2	211
6	Mechanism of intracellular calcium ([Ca ²⁺] _i) inhibition of lipolysis in human adipocytes. <i>FASEB Journal</i> , 2001, 15, 2527-2529.	0.5	183
7	Epigenetic Regulation of Macrophage Polarization by DNA Methyltransferase 3b. <i>Molecular Endocrinology</i> , 2014, 28, 565-574.	3.7	170
8	Transcriptional Synergy and the Regulation of Ucp1 during Brown Adipocyte Induction in White Fat Depots. <i>Molecular and Cellular Biology</i> , 2005, 25, 8311-8322.	2.3	162
9	Omega-3 Polyunsaturated Fatty Acids Antagonize Macrophage Inflammation via Activation of AMPK/SIRT1 Pathway. <i>PLoS ONE</i> , 2012, 7, e45990.	2.5	146
10	Inhibiting DNA Methylation by 5-Aza-2- β -deoxycytidine Ameliorates Atherosclerosis Through Suppressing Macrophage Inflammation. <i>Endocrinology</i> , 2014, 155, 4925-4938.	2.8	138
11	Epigenetic regulation of macrophage polarization and inflammation by DNA methylation in obesity. <i>JCI Insight</i> , 2016, 1, e87748.	5.0	138
12	CGI-58 knockdown in mice causes hepatic steatosis but prevents diet-induced obesity and glucose intolerance. <i>Journal of Lipid Research</i> , 2010, 51, 3306-3315.	4.2	128
13	Activation of the Cholinergic Antiinflammatory Pathway Ameliorates Obesity-Induced Inflammation and Insulin Resistance. <i>Endocrinology</i> , 2011, 152, 836-846.	2.8	110
14	Thermoneutrality decreases thermogenic program and promotes adiposity in high-fat diet-fed mice. <i>Physiological Reports</i> , 2016, 4, e12799.	1.7	93
15	The ER-Associated Degradation Adaptor Protein Sel1L Regulates LPL Secretion and Lipid Metabolism. <i>Cell Metabolism</i> , 2014, 20, 458-470.	16.2	92
16	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> , 2016, 291, 4523-4536.	3.4	87
17	Loss of Abhd5 Promotes Colorectal Tumor Development and Progression by Inducing Aerobic Glycolysis and Epithelial-Mesenchymal Transition. <i>Cell Reports</i> , 2014, 9, 1798-1811.	6.4	82
18	Macrophage CGI-58 Deficiency Activates ROS-Inflammasome Pathway to Promote Insulin Resistance in Mice. <i>Cell Reports</i> , 2014, 7, 223-235.	6.4	80

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19	Macrophage ABHD5 promotes colorectal cancer growth by suppressing spermidine production by SRM. <i>Nature Communications</i> , 2016, 7, 11716.	12.8	73
20	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> , 2009, 29, 4563-4573.	2.3	72
21	The Histone Demethylase UTX Promotes Brown Adipocyte Thermogenic Program Via Coordinated Regulation of H3K27 Demethylation and Acetylation. <i>Journal of Biological Chemistry</i> , 2015, 290, 25151-25163.	3.4	67
22	Regulation of Insulin and Leptin Signaling by Muscle Suppressor of Cytokine Signaling 3 (SOCS3). <i>PLoS ONE</i> , 2012, 7, e47493.	2.5	65
23	Lipolysis sensation by white fat afferent nerves triggers brown fat thermogenesis. <i>Molecular Metabolism</i> , 2016, 5, 626-634.	6.5	64
24	Deficiency of liver Comparative Gene Identification-58 causes steatohepatitis and fibrosis in mice. <i>Journal of Lipid Research</i> , 2013, 54, 2109-2120.	4.2	62
25	Protein-tyrosine Phosphatase 1B Deficiency Reduces Insulin Resistance and the Diabetic Phenotype in Mice with Polygenic Insulin Resistance*. <i>Journal of Biological Chemistry</i> , 2007, 282, 23829-23840.	3.4	58
26	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> , 2017, 312, R132-R145.	1.8	58
27	Inhibiting DNA methylation switches adipogenesis to osteoblastogenesis by activating Wnt10a. <i>Scientific Reports</i> , 2016, 6, 25283.	3.3	53
28	The Full Capacity of AICAR to Reduce Obesity-Induced Inflammation and Insulin Resistance Requires Myeloid SIRT1. <i>PLoS ONE</i> , 2012, 7, e49935.	2.5	47
29	Relationship between Human Adipose Tissue Agouti and Fatty Acid Synthase (FAS). <i>Journal of Nutrition</i> , 2000, 130, 2478-2481.	2.9	46
30	Interaction between metformin and leucine in reducing hyperlipidemia and hepatic lipid accumulation in diet-induced obese mice. <i>Metabolism: Clinical and Experimental</i> , 2015, 64, 1426-1434.	3.4	44
31	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> , 2017, 312, R324-R337.	1.8	43
32	Sympathetic nerve innervation is required for beigeing in white fat. <i>Physiological Reports</i> , 2019, 7, e14031.	1.7	42
33	Sequestration of Thermogenic Transcription Factors in the Cytoplasm during Development of Brown Adipose Tissue. <i>Journal of Biological Chemistry</i> , 2004, 279, 25916-25926.	3.4	39
34	Myeloid Deletion of $\hat{1}\pm$ 1AMPK Exacerbates Atherosclerosis in LDL Receptor Knockout (LDLRKO) Mice. <i>Diabetes</i> , 2016, 65, 1565-1576.	0.6	36
35	Neonatal Inhibition of DNA Methylation Alters Cell Phenotype in Sexually Dimorphic Regions of the Mouse Brain. <i>Endocrinology</i> , 2017, 158, 1838-1848.	2.8	36
36	DNA Methylation Biphasically Regulates 3T3-L1 Preadipocyte Differentiation. <i>Molecular Endocrinology</i> , 2016, 30, 677-687.	3.7	35

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37	Sensory denervation of inguinal white fat modifies sympathetic outflow to white and brown fat in Siberian hamsters. <i>Physiology and Behavior</i> , 2018, 190, 28-33.	2.1	34
38	Leucine amplifies the effects of metformin on insulin sensitivity and glycemic control in diet-induced obese mice. <i>Metabolism: Clinical and Experimental</i> , 2015, 64, 845-856.	3.4	32
39	Epigenetic regulation of E-cadherin expression by the histone demethylase UTX in colon cancer cells. <i>Medical Oncology</i> , 2016, 33, 21.	2.5	32
40	Class I and II Histone Deacetylase Inhibitors Differentially Regulate Thermogenic Gene Expression in Brown Adipocytes. <i>Scientific Reports</i> , 2018, 8, 13072.	3.3	31
41	Adipose tissue-derived neurotrophic factor 3 regulates sympathetic innervation and thermogenesis in adipose tissue. <i>Nature Communications</i> , 2021, 12, 5362.	12.8	27
42	Intestinal Cgi-58 Deficiency Reduces Postprandial Lipid Absorption. <i>PLoS ONE</i> , 2014, 9, e91652.	2.5	26
43	Macrophage CGI-58 deficiency promotes IL-1 β transcription by activating the SOCS3 \rightarrow FOXO1 pathway. <i>Clinical Science</i> , 2015, 128, 493-506.	4.3	26
44	Short photoperiod reverses obesity in Siberian hamsters via sympathetically induced lipolysis and Browning in adipose tissue. <i>Physiology and Behavior</i> , 2018, 190, 11-20.	2.1	26
45	Agouti/Melanocortin Interactions with Leptin Pathways in Obesity. <i>Nutrition Reviews</i> , 1998, 56, 271-274.	5.8	24
46	Genetic demonstration of intestinal NPC1L1 as a major determinant of hepatic cholesterol and blood atherogenic lipoprotein levels. <i>Atherosclerosis</i> , 2014, 237, 609-617.	0.8	21
47	A Combination of Leucine, Metformin, and Sildenafil Treats Nonalcoholic Fatty Liver Disease and Steatohepatitis in Mice. <i>International Journal of Hepatology</i> , 2016, 2016, 1-16.	1.1	21
48	Interaction between leucine and phosphodiesterase 5 inhibition in modulating insulin sensitivity and lipid metabolism. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , 2015, 8, 227.	2.4	19
49	What activates thermogenesis when lipid droplet lipolysis is absent in brown adipocytes?. <i>Adipocyte</i> , 2018, , 1-5.	2.8	16
50	Neuronal Dnmt1 Deficiency Attenuates Diet-Induced Obesity in Mice. <i>Endocrinology</i> , 2018, 159, 145-162.	2.8	14
51	Diverse and Complementary Effects of Ghrelin and Obestatin. <i>Biomolecules</i> , 2022, 12, 517.	4.0	13
52	Mechanisms for AgRP neuron-mediated regulation of appetitive behaviors in rodents. <i>Physiology and Behavior</i> , 2018, 190, 34-42.	2.1	12
53	Ghrelin receptor in agouti-related peptide neurones regulates metabolic adaptation to calorie restriction. <i>Journal of Neuroendocrinology</i> , 2019, 31, e12763.	2.6	11
54	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> , 2020, 318, E453-E461.	3.5	11

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55	Epigenetic interaction between UTX and DNMT1 regulates diet-induced myogenic remodeling in brown fat. <i>Nature Communications</i> , 2021, 12, 6838.	12.8	11
56	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> , 2017, 7, 33-47.	0.5	9
57	AgRP knockdown blocks long-term appetitive, but not consummatory, feeding behaviors in Siberian hamsters. <i>Physiology and Behavior</i> , 2018, 190, 61-70.	2.1	8
58	Activation of the sympathetic nervous system suppresses mouse white adipose tissue hyperplasia through the β_1 adrenergic receptor. <i>Physiological Reports</i> , 2018, 6, e13645.	1.7	8
59	Dnmt3b Deficiency in Myf5+ Brown Fat Precursor Cells Promotes Obesity in Female Mice. <i>Biomolecules</i> , 2021, 11, 1087.	4.0	8
60	Association of SSTR2 Polymorphisms and Glucose Homeostasis Phenotypes. <i>Diabetes</i> , 2009, 58, 1457-1462.	0.6	6
61	Endogenously determined restriction of food intake overcomes excitation-contraction uncoupling in JP45KO mice with aging. <i>Experimental Gerontology</i> , 2012, 47, 304-316.	2.8	6
62	The histone methyltransferase Suv39h regulates 3T3-L1 adipogenesis. <i>Adipocyte</i> , 2020, 9, 401-414.	2.8	5
63	NPC1L1 Deficiency Suppresses Ileal Fibroblast Growth Factor 15 Expression and Increases Bile Acid Pool Size in High-Fat-Diet-Fed Mice. <i>Cells</i> , 2021, 10, 3468.	4.1	5
64	Agouti Signaling Protein Stimulates Islet Amyloid Polypeptide (Amylin) Secretion in Pancreatic β -Cells. <i>Experimental Biology and Medicine</i> , 2001, 226, 565-569.	2.4	4
65	Fatty Acids Rescue the Thermogenic Function of Sympathetically Denervated Brown Fat. <i>Biomolecules</i> , 2021, 11, 1428.	4.0	4
66	N-Linked Glycosylation Prevents Deamidation of Glycopeptide and Glycoprotein. <i>ACS Chemical Biology</i> , 2020, 15, 3197-3205.	3.4	2
67	Brown Fat Dnmt3b Deficiency Ameliorates Obesity in Female Mice. <i>Life</i> , 2021, 11, 1325.	2.4	2
68	Adipocyte Utx Deficiency Promotes High-Fat Diet-Induced Metabolic Dysfunction in Mice. <i>Cells</i> , 2022, 11, 181.	4.1	2
69	Neuronal GHS-R Differentially Modulates Feeding Patterns under Normal and Obesogenic Conditions. <i>Biomolecules</i> , 2022, 12, 293.	4.0	1
70	Synergistic effects of leucine with phosphodiesterase 5 inhibition on insulin sensitivity (1035.4). <i>FASEB Journal</i> , 2014, 28, 1035.4.	0.5	0
71	Adipose Lipolysis Regulates Cardiac Glucose Uptake and Function in Mice under Cold Stress. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13361.	4.1	0