Yong Xu

List of Publications by Year in descending order

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114 papers	5,608 citations	76326 40 h-index	91884 69 g-index
120 all docs	120 docs citations	120 times ranked	7469 citing authors

#	Article	IF	Citations
1	Direct Insulin and Leptin Action on Pro-opiomelanocortin Neurons Is Required for Normal Glucose Homeostasis and Fertility. Cell Metabolism, 2010, 11, 286-297.	16.2	321
2	5-HT2CRs Expressed by Pro-Opiomelanocortin Neurons Regulate Energy Homeostasis. Neuron, 2008, 60, 582-589.	8.1	284
3	Asprosin is a centrally acting orexigenic hormone. Nature Medicine, 2017, 23, 1444-1453.	30.7	216
4	The sexually dimorphic role of adipose and adipocyte estrogen receptors in modulating adipose tissue expansion, inflammation, and fibrosis. Molecular Metabolism, 2013, 2, 227-242.	6.5	202
5	DsbA-L prevents obesity-induced inflammation and insulin resistance by suppressing the mtDNA release-activated cGAS-cGAMP-STING pathway. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12196-12201.	7.1	185
6	Serotonin 2C receptors in pro-opiomelanocortin neurons regulate energy and glucose homeostasis. Journal of Clinical Investigation, 2013, 123, 5061-5070.	8.2	184
7	Bmal1 and Î²-Cell Clock Are Required for Adaptation to Circadian Disruption, and Their Loss of Function Leads to Oxidative Stress-Induced Î²-Cell Failure in Mice. Molecular and Cellular Biology, 2013, 33, 2327-2338.	2.3	175
8	Serotonin 2C Receptor Activates a Distinct Population of Arcuate Pro-opiomelanocortin Neurons via TRPC Channels. Neuron, 2011, 71, 488-497.	8.1	165
9	Estrogen Improves Insulin Sensitivity and Suppresses Gluconeogenesis via the Transcription Factor Foxo1. Diabetes, 2019, 68, 291-304.	0.6	160
10	Steroidogenic factor 1 directs programs regulating diet-induced thermogenesis and leptin action in the ventral medial hypothalamic nucleus. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10673-10678.	7.1	152
11	Central nervous control of energy and glucose balance: focus on the central melanocortin system. Annals of the New York Academy of Sciences, 2011, 1243, 1-14.	3.8	118
12	Central insulin and leptin-mediated autonomic control of glucose homeostasis. Trends in Endocrinology and Metabolism, 2011, 22, 275-85.	7.1	104
13	Estrogens stimulate serotonin neurons to inhibit binge-like eating in mice. Journal of Clinical Investigation, 2014, 124, 4351-4362.	8.2	99
14	PI3K Signaling in the Ventromedial Hypothalamic Nucleus Is Required for Normal Energy Homeostasis. Cell Metabolism, 2010, 12, 88-95.	16.2	96
15	5-HT2CRs expressed by pro-opiomelanocortin neurons regulate insulin sensitivity in liver. Nature Neuroscience, 2010, 13, 1457-1459.	14.8	87
16	Glutamate Mediates the Function of Melanocortin Receptor 4 on Sim1 Neurons in Body Weight Regulation. Cell Metabolism, 2013, 18, 860-870.	16.2	87
17	Activation of Serotonin 2C Receptors in Dopamine Neurons Inhibits Binge-like Eating in Mice. Biological Psychiatry, 2017, 81, 737-747.	1.3	83
18	Phosphatidyl Inositol 3-Kinase Signaling in Hypothalamic Proopiomelanocortin Neurons Contributes to the Regulation of Glucose Homeostasis. Endocrinology, 2009, 150, 4874-4882.	2.8	82

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19	Estrogen receptorâ€“Î± in medial amygdala neurons regulates body weight. Journal of Clinical Investigation, 2015, 125, 2861-2876.	8.2	81
20	Central regulation of energy metabolism by estrogens. Molecular Metabolism, 2018, 15, 104-115.	6.5	80
21	Central GLP-2 Enhances Hepatic Insulin Sensitivity via Activating PI3K Signaling in POMC Neurons. Cell Metabolism, 2013, 18, 86-98.	16.2	74
22	GABAergic Projections from Lateral Hypothalamus to Paraventricular Hypothalamic Nucleus Promote Feeding. Journal of Neuroscience, 2015, 35, 3312-3318.	3.6	74
23	A Serotonin and Melanocortin Circuit Mediates d-Fenfluramine Anorexia. Journal of Neuroscience, 2010, 30, 14630-14634.	3.6	72
24	TAp63 contributes to sexual dimorphism in POMC neuron functions and energy homeostasis. Nature Communications, 2018, 9, 1544.	12.8	64
25	Sodium butyrate alleviates high-glucose-induced renal glomerular endothelial cells damage via inhibiting pyroptosis. International Immunopharmacology, 2019, 75, 105832.	3.8	64
26	A POMC-originated circuit regulates stress-induced hypophagia, depression, and anhedonia. Molecular Psychiatry, 2020, 25, 1006-1021.	7.9	64
27	Neuronal Deletion of Ghrelin Receptor Almost Completely Prevents Diet-Induced Obesity. Diabetes, 2016, 65, 2169-2178.	0.6	63
28	Gut-derived GIP activates central Rap1 to impair neural leptin sensitivity during overnutrition. Journal of Clinical Investigation, 2019, 129, 3786-3791.	8.2	62
29	Maresins: Specialized Proresolving Lipid Mediators and Their Potential Role in Inflammatory-Related Diseases. Mediators of Inflammation, 2018, 2018, 1-8.	3.0	61
30	G-quadruplex DNA: a novel target for drug design. Cellular and Molecular Life Sciences, 2021, 78, 6557-6583.	5.4	57
31	Profound and redundant functions of arcuate neurons in obesity development. Nature Metabolism, 2020, 2, 763-774.	11.9	55
32	SF-1 in the ventral medial hypothalamic nucleus: A key regulator of homeostasis. Molecular and Cellular Endocrinology, 2011, 336, 219-223.	3.2	54
33	Hypothalamic roles of mTOR complex I: integration of nutrient and hormone signals to regulate energy homeostasis. American Journal of Physiology - Endocrinology and Metabolism, 2016, 310, E994-E1002.	3.5	54
34	Loss of function of NCOR1 and NCOR2 impairs memory through a novel GABAergic hypothalamusâ€“CA3 projection. Nature Neuroscience, 2019, 22, 205-217.	14.8	54
35	New inducible genetic method reveals critical roles of GABA in the control of feeding and metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3645-3650.	7.1	53
36	Mechanisms for sex differences in energy homeostasis. Journal of Molecular Endocrinology, 2019, 62, R129-R143.	2.5	53

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37	Reciprocal control of obesity and anxietyâ€“depressive disorder via a GABA and serotonin neural circuit. Molecular Psychiatry, 2021, 26, 2837-2853.	7.9	49
38	Identification of a neurocircuit underlying regulation of feeding by stress-related emotional responses. Nature Communications, 2019, 10, 3446.	12.8	48
39	Effect of Inulin-Type Carbohydrates on Insulin Resistance in Patients with Type 2 Diabetes and Obesity: A Systematic Review and Meta-Analysis. Journal of Diabetes Research, 2019, 2019, 1-13.	2.3	47
40	Hypothalamic Vitamin D Improves Glucose Homeostasis and Reduces Weight. Diabetes, 2016, 65, 2732-2741.	0.6	45
41	Steroid receptor coactivator-1 modulates the function of Pomc neurons and energy homeostasis. Nature Communications, 2019, 10, 1718.	12.8	45
42	Phloretin promotes adipocyte differentiation in vitro and improves glucose homeostasis in vivo. Journal of Nutritional Biochemistry, 2014, 25, 1296-1308.	4.2	43
43	Suppression of GHS-R in AgRP Neurons Mitigates Diet-Induced Obesity by Activating Thermogenesis. International Journal of Molecular Sciences, 2017, 18, 832.	4.1	42
44	Maresin 1 Mitigates High Glucose-Induced Mouse Glomerular Mesangial Cell Injury by Inhibiting Inflammation and Fibrosis. Mediators of Inflammation, 2017, 2017, 1-11.	3.0	41
45	A neural basis for antagonistic control of feeding and compulsive behaviors. Nature Communications, 2018, 9, 52.	12.8	41
46	The hypothalamus for whole-body physiology: from metabolism to aging. Protein and Cell, 2022, 13, 394-421.	11.0	41
47	Neuronal Rap1 Regulates Energy Balance, Glucose Homeostasis, and Leptin Actions. Cell Reports, 2016, 16, 3003-3015.	6.4	37
48	NRG1-Fc improves metabolic health via dual hepatic and central action. JCI Insight, 2018, 3, .	5.0	37
49	Plasma Neuregulin 4 Levels Are Associated with Metabolic Syndrome in Patients Newly Diagnosed with Type 2 Diabetes Mellitus. Disease Markers, 2018, 2018, 1-11.	1.3	36
50	Paraventricular hypothalamus mediates diurnal rhythm of metabolism. Nature Communications, 2020, 11, 3794.	12.8	36
51	Gut Microbiota-Derived Trimethylamine N-Oxide and Kidney Function: A Systematic Review and Meta-Analysis. Advances in Nutrition, 2021, 12, 1286-1304.	6.4	36
52	A lateral hypothalamus to basal forebrain neurocircuit promotes feeding by suppressing responses to anxiogenic environmental cues. Science Advances, 2019, 5, eaav1640.	10.3	35
53	Steroid Receptor Coactivator-1 Mediates Estrogenic Actions to Prevent Body Weight Gain in Female Mice. Endocrinology, 2013, 154, 150-158.	2.8	34
54	The ERÎ±-PI3K Cascade in Proopiomelanocortin Progenitor Neurons Regulates Feeding and Glucose Balance in Female Mice. Endocrinology, 2015, 156, 4474-4491.	2.8	33

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55	Cross-talk between metabolism and reproduction: the role of POMC and SF1 neurons. Frontiers in Endocrinology, 2012, 2, 98.	3.5	32
56	Analysis of microRNA expression profile by small RNA sequencing in Down syndrome fetuses. International Journal of Molecular Medicine, 2013, 32, 1115-1125.	4.0	32
57	PI3K in the ventromedial hypothalamic nucleus mediates estrogenic actions on energy expenditure in female mice. Scientific Reports, 2016, 6, 23459.	3.3	32
58	Hypothalamic Non-AgRP, Non-POMC GABAergic Neurons Are Required for Postweaning Feeding and NPY Hyperphagia. Journal of Neuroscience, 2015, 35, 10440-10450.	3.6	31
59	Estrogens Prevent Metabolic Dysfunctions Induced by Circadian Disruptions in Female Mice. Endocrinology, 2015, 156, 2114-2123.	2.8	31
60	Nuclear Receptor Coactivators (NCOAs) and Corepressors (NCORs) in the Brain. Endocrinology, 2020, 161, .	2.8	30
61	Resistant starch ameliorated insulin resistant in patients of type 2 diabetes with obesity: a systematic review and meta-analysis. Lipids in Health and Disease, 2019, 18, 205.	3.0	29
62	Identification of dysregulated microRNAs in lymphocytes from children with Down syndrome. Gene, 2013, 530, 278-286.	2.2	27
63	Progress in the molecular understanding of central regulation of body weight by estrogens. Obesity, 2015, 23, 919-926.	3.0	27
64	Adrenomedullin Stimulates Nitric Oxide Production from Primary Rat Hypothalamic Neurons: Roles of Calcium and Phosphatases. Molecular Pharmacology, 2007, 72, 112-120.	2.3	26
65	Metformin and Fibrosis: A Review of Existing Evidence and Mechanisms. Journal of Diabetes Research, 2021, 2021, 1-11.	2.3	26
66	Decrease in arterial pressure induced by adrenomedullin in the hypothalamic paraventricular nucleus is mediated by nitric oxide and GABA. Regulatory Peptides, 2004, 119, 21-30.	1.9	25
67	Visualizing estrogen receptor-Î±-expressing neurons using a new ERÎ±-ZsGreen reporter mouse line. Metabolism: Clinical and Experimental, 2016, 65, 522-532.	3.4	25
68	Euglycemia Restoration by Central Leptin in Type 1 Diabetes Requires STAT3 Signaling but Not Fast-Acting Neurotransmitter Release. Diabetes, 2016, 65, 1040-1049.	0.6	25
69	Adrenomedullin Stimulates Nitric Oxide Release from SK-N-SH Human Neuroblastoma Cells by Modulating Intracellular Calcium Mobilization. Endocrinology, 2005, 146, 2295-2305.	2.8	24
70	A Small Potassium Current in AgRP/NPY Neurons Regulates Feeding Behavior and Energy Metabolism. Cell Reports, 2016, 17, 1807-1818.	6.4	23
71	Adrenomedullin in the rostral ventrolateral medulla increases arterial pressure and heart rate: roles of glutamate and nitric oxide. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 287, R729-R734.	1.8	22
72	17Î²-estradiol promotes acute refeeding in hungry mice via membrane-initiated ERÎ± signaling. Molecular Metabolism, 2020, 42, 101053.	6.5	21

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73	Function and Mechanism of Novel Histone Posttranslational Modifications in Health and Disease. BioMed Research International, 2021, 2021, 1-13.	1.9	21
74	Apolipoprotein A-IV Inhibits AgRP/NPY Neurons and Activates Pro-Opiomelanocortin Neurons in the Arcuate Nucleus. Neuroendocrinology, 2016, 103, 476-488.	2.5	20
75	Gut Hormone GIP Induces Inflammation and Insulin Resistance in the Hypothalamus. Endocrinology, 2020, 161, .	2.8	20
76	Brain nuclear receptors and body weight regulation. Journal of Clinical Investigation, 2017, 127, 1172-1180.	8.2	20
77	RIPK2-Mediated Autophagy and Negatively Regulated ROS-NLRP3 Inflammasome Signaling in GMCs Stimulated with High Glucose. Mediators of Inflammation, 2019, 2019, 1-13.	3.0	19
78	Defensive Behaviors Driven by a Hypothalamic-Ventral Midbrain Circuit. ENeuro, 2019, 6, ENEURO.0156-19.2019.	1.9	19
79	Estrogen Receptor-Î± in the Medial Amygdala Prevents Stress-Induced Elevations in Blood Pressure in Females. Hypertension, 2016, 67, 1321-1330.	2.7	18
80	Heparin Increases Food Intake through AgRP Neurons. Cell Reports, 2017, 20, 2455-2467.	6.4	17
81	Tissue factor pathway inhibitor-2 inhibits the growth and invasion of hepatocellular carcinoma cells and is inactivated in human hepatocellular carcinoma. Oncology Letters, 2011, 2, 779-783.	1.8	16
82	A High Level of Circulating Valine Is a Biomarker for Type 2 Diabetes and Associated with the Hypoglycemic Effect of Sitagliptin. Mediators of Inflammation, 2019, 2019, 1-7.	3.0	16
83	Decreased Plasma Maresin 1 Concentration Is Associated with Diabetic Foot Ulcer. Mediators of Inflammation, 2020, 2020, 1-7.	3.0	16
84	Adrenomedullin in the rostral ventrolateral medulla inhibits baroreflex control of heart rate: a role for protein kinase A. British Journal of Pharmacology, 2006, 148, 70-77.	5.4	15
85	VMAT2-Mediated Neurotransmission from Midbrain Leptin Receptor Neurons in Feeding Regulation. ENeuro, 2017, 4, ENEURO.0083-17.2017.	1.9	15
86	Tissue factor pathway inhibitor-2 induced hepatocellular carcinoma cell differentiation. Saudi Journal of Biological Sciences, 2017, 24, 95-102.	3.8	14
87	A hindbrain dopaminergic neural circuit prevents weight gain by reinforcing food satiation. Science Advances, 2021, 7, .	10.3	13
88	SRC-1 Regulates Blood Pressure and Aortic Stiffness in Female Mice. PLoS ONE, 2016, 11, e0168644.	2.5	13
89	Bdh1 overexpression ameliorates hepatic injury by activation of Nrf2 in a MAFLD mouse model. Cell Death Discovery, 2022, 8, 49.	4.7	13
90	Metaâ€chlorophenylpiperazine enhances leptin sensitivity in dietâ€induced obese mice. British Journal of Pharmacology, 2015, 172, 3510-3521.	5.4	12

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91	FBW7 Regulates the Autophagy Signal in Mesangial Cells Induced by High Glucose. BioMed Research International, 2019, 2019, 1-9.	1.9	12
92	Central regulation of food intake, body weight, energy expenditure, and glucose homeostasis. Frontiers in Neuroscience, 2014, 8, 384.	2.8	11
93	Melanocortin 4 receptor is not required for estrogenic regulations on energy homeostasis and reproduction. Metabolism: Clinical and Experimental, 2017, 70, 152-159.	3.4	11
94	A neural basis for brain leptin action on reducing type 1 diabetic hyperglycemia. Nature Communications, 2021, 12, 2662.	12.8	11
95	An Indirect Action Contributes to C-Fos Induction in Paraventricular Hypothalamic Nucleus by Neuropeptide Y. Scientific Reports, 2016, 6, 19980.	3.3	10
96	Rap1 in the VMH regulates glucose homeostasis. JCI Insight, 2021, 6, .	5.0	10
97	SUMO E3 Ligase PIASy Mediates High Glucose-Induced Activation of NF-Î²B Inflammatory Signaling in Rat Mesangial Cells. Mediators of Inflammation, 2017, 2017, 1-9.	3.0	9
98	Low serum Maresin-1 levels are associated with non-alcoholic fatty liver disease: a cross-sectional study. Lipids in Health and Disease, 2021, 20, 96.	3.0	9
99	CYLD Deubiquitinase Negatively Regulates High Glucose-Induced NF-Î²B Inflammatory Signaling in Mesangial Cells. BioMed Research International, 2017, 2017, 1-9.	1.9	7
100	Profound and rapid reduction in body temperature induced by the melanocortin receptor agonists. Biochemical and Biophysical Research Communications, 2014, 451, 184-189.	2.1	6
101	Genotyping, generation and proteomic profiling of the first human autosomal dominant osteopetrosis type II-specific induced pluripotent stem cells. Stem Cell Research and Therapy, 2019, 10, 251.	5.5	6
102	Association between Circulating B-Type Natriuretic Peptide and Diabetic Peripheral Neuropathy: A Cross-Sectional Study of a Chinese Type 2 Diabetic Population. Journal of Diabetes Research, 2020, 2020, 1-10.	2.3	6
103	Association of Circulating Omentin-1 with Osteoporosis in a Chinese Type 2 Diabetic Population. Mediators of Inflammation, 2020, 2020, 1-16.	3.0	6
104	Molecular dysfunctions in acute myeloid leukemia revealed by integrated analysis of microRNA and transcription factor. International Journal of Oncology, 2016, 48, 2367-2380.	3.3	5
105	Arginine reverses growth hormone resistance through the inhibition of toll-like receptor 4-mediated inflammatory pathway. Metabolism: Clinical and Experimental, 2018, 79, 10-23.	3.4	5
106	Single-cell sequencing reveals the potential oncogenic expression atlas of human iPSC-derived cardiomyocytes. Biology Open, 2021, 10, .	1.2	5
107	PCB118 Induces Inflammation of Islet Beta Cells via Activating ROS-NLRP3 Inflammasome Signaling. BioMed Research International, 2021, 2021, 1-8.	1.9	5
108	Red blood cell Î²-adrenergic receptors contribute to diet-induced energy expenditure by increasing O2 supply. JCI Insight, 2017, 2, .	5.0	4

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109	Serotonin 2C receptors in pro-opiomelanocortin neurons regulate energy and glucose homeostasis. Journal of Clinical Investigation, 2014, 124, 1868-1868.	8.2	2
110	Brain Estrogens and Feeding Behavior. Advances in Experimental Medicine and Biology, 2017, 1043, 337-357.	1.6	1
111	Nontraditional Therapy of Diabetes and Its Complications. Journal of Diabetes Research, 2021, 2021, 1-5.	2.3	1
112	Targeting brain estrogen receptor for binge eating. Oncotarget, 2015, 6, 23044-23045.	1.8	1
113	HBV integrated genomic characterization revealed hepatocyte genomic alterations in HBVâ€'related hepatocellular carcinomas. Molecular and Clinical Oncology, 2020, 13, 1-1.	1.0	1
114	HBV integrated genomic characterization revealed hepatocyte genomic alterations in HBV-related hepatocellular carcinomas. Molecular and Clinical Oncology, 2020, 13, 79.	1.0	0