Dongsheng Cai

List of Publications by Year
in descending order

50 papers	10,957 citations	201575 27 h-index	189801 50 g-index
59 all docs	59 docs citations	59 times ranked	21293 citing authors

#	Article	IF	Citations
1	The hypothalamus for whole-body physiology: from metabolism to aging. Protein and Cell, 2022, 13, 394-421.	4.8	41
2	Exosomes/microvesicles target SARS-CoV-2 via innate and RNA-induced immunity with PIWI-piRNA system. Life Science Alliance, 2022, 5, e202101240.	1.3	10
3	Hypothalamic microinflammation. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2021, 181, 311-322.	1.0	6
4	GnRH pulse frequency and irregularity play a role in male aging. Nature Aging, 2021, 1, 904-918.	5.3	4
5	Regulation of muscle and metabolic physiology by hypothalamic erythropoietin independently of its peripheral action. Molecular Metabolism, 2020, 32, 56-68.	3.0	6
6	Innate and Adaptive Immunity of Murine Neural Stem Cell-Derived piRNA Exosomes/Microvesicles against Pseudotyped SARS-CoV-2 and HIV-Based Lentivirus. IScience, 2020, 23, 101806.	1.9	16
7	Hypothalamic extended synaptotagmin-3 contributes to the development of dietary obesity and related metabolic disorders. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20149-20158.	3.3	11
8	Agingâ€induced aberrant RAGE/PPARÎ± axis promotes hepatic steatosis via dysfunctional mitochondrial Î² oxidation. Aging Cell, 2020, 19, e13238.	3.0	30
9	Reducing Hypothalamic Stem Cell Senescence Protects against Aging-Associated Physiological Decline. Cell Metabolism, 2020, 31, 534-548.e5.	7.2	75
10	Reversal of prolonged obesity-associated cerebrovascular dysfunction by inhibiting microglial Tak1. Nature Neuroscience, 2020, 23, 832-841.	7.1	22
11	Control of lifespan and survival by Drosophila NF-ÎºB signaling through neuroendocrine cells and neuroblasts. Aging, 2020, 12, 24604-24622.	1.4	7
12	Multifaceted secretion of htNSC-derived hypothalamic islets induces survival and antidiabetic effect via peripheral implantation in mice. ELife, 2020, 9, .	2.8	8
13	Brain is an endocrine organ through secretion and nuclear transfer of parathymosin. Life Science Alliance, 2020, 3, e202000917.	1.3	8
14	â€œHypothalamic Microinflammationâ€•Paradigm in Aging and Metabolic Diseases. Cell Metabolism, 2019, 30, 19-35.	7.2	92
15	Age-dependent decline of hypothalamic HIF2Î± in response to insulin and its contribution to advanced age-associated metabolic disorders in mice. Journal of Biological Chemistry, 2019, 294, 4946-4955.	1.6	11
16	miR199a-5p inhibits hepatic insulin sensitivity via suppression of ATG14-mediated autophagy. Cell Death and Disease, 2018, 9, 405.	2.7	16
17	Hypothalamic and inflammatory basis of hypertension. Clinical Science, 2017, 131, 211-223.	1.8	30
18	Neural Programmatic Role of Leptin, TNFÎ±, Melanocortin, and Glutamate in Blood Pressure Regulation vs Obesity-Related Hypertension in Male C57BL/6 Mice. Endocrinology, 2017, 158, 1766-1775.	1.4	14

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19	Astrocytic Process Plasticity and IKKÎ²/NF-ÎºB in Central Control of Blood Glucose, Blood Pressure, and Body Weight. Cell Metabolism, 2017, 25, 1091-1102.e4.	7.2	124
20	Obesity-associated extracellular mtDNA activates central TGFÎ² pathway to cause blood pressure increase. American Journal of Physiology - Endocrinology and Metabolism, 2017, 312, E161-E174.	1.8	12
21	Hypothalamic stem cells control ageing speed partly through exosomal miRNAs. Nature, 2017, 548, 52-57.	13.7	424
22	Neuroinflammatory and autonomic mechanisms in diabetes and hypertension. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E32-E41.	1.8	47
23	Berberine prevents progression from hepatic steatosis to steatohepatitis and fibrosis by reducing endoplasmic reticulum stress. Scientific Reports, 2016, 6, 20848.	1.6	78
24	Central Leptin and Tumor Necrosis Factor-Î± (TNFÎ±) in Diurnal Control of Blood Pressure and Hypertension. Journal of Biological Chemistry, 2016, 291, 15131-15142.	1.6	22
25	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
26	Canonical transient receptor potential 3 channels activate NFâ€ºB to mediate allergic airway disease via PKCâ€±/lºBâ€± and calcineurin/lºBâ€² pathways. FASEB Journal, 2016, 30, 214-229.	0.2	24
27	Rapid linkage of innate immunological signals to adaptive immunity by the brain-fat axis. Nature Immunology, 2015, 16, 525-533.	7.0	34
28	Metabolic learning and memory formation by the brain influence systemic metabolic homeostasis. Nature Communications, 2015, 6, 6704.	5.8	25
29	Hypothalamic microinflammation: a common basis of metabolic syndrome and aging. Trends in Neurosciences, 2015, 38, 36-44.	4.2	81
30	Periostin promotes liver steatosis and hypertriglyceridemia through downregulation of PPARÎ±. Journal of Clinical Investigation, 2014, 124, 3501-3513.	3.9	110
31	Aberrant miR199a-5p/caveolin1/PPARÎ± axis in hepatic steatosis. Journal of Molecular Endocrinology, 2014, 53, 393-403.	1.1	43
32	Hypertension in obesity: the role of hypothalamic inflammation. Nature Reviews Endocrinology, 2014, 10, 760-760.	4.3	3
33	Obesity- and aging-induced excess of central transforming growth factor-Î² potentiates diabetic development via an RNA stress response. Nature Medicine, 2014, 20, 1001-1008.	15.2	120
34	Control of obesity and glucose intolerance via building neural stem cells in the hypothalamus. Molecular Metabolism, 2014, 3, 313-324.	3.0	32
35	A new horizon: oxytocin as a novel therapeutic option for obesity and diabetes. Drug Discovery Today Disease Mechanisms, 2013, 10, e63-e68.	0.8	31
36	Central mechanisms of obesity and related metabolic diseases. Reviews in Endocrine and Metabolic Disorders, 2013, 14, 309-310.	2.6	8

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37	Hypothalamic programming of systemic ageing involving IKK-Î², NF-ÎºB and GnRH. Nature, 2013, 497, 211-216.	13.7	738
38	Neuroinflammation and neurodegeneration in overnutrition-induced diseases. Trends in Endocrinology and Metabolism, 2013, 24, 40-47.	3.1	217
39	Neuroinflammation in Overnutrition-Induced Diseases. Vitamins and Hormones, 2013, 91, 195-218.	0.7	17
40	One Step from Prediabetes to Diabetes: Hypothalamic Inflammation?. Endocrinology, 2012, 153, 1010-1013.	1.4	27
41	IKKÎ²/NF-ÎºB disrupts adult hypothalamic neural stem cells to mediate a neurodegenerative mechanism of dietary obesity and pre-diabetes. Nature Cell Biology, 2012, 14, 999-1012.	4.6	312
42	Inflammatory cause of metabolic syndrome via brain stress and NF-ÎºB. Aging, 2012, 4, 98-115.	1.4	159
43	Uncoupling the mechanisms of obesity and hypertension by targeting hypothalamic IKK-Î² and NF-ÎºB. Nature Medicine, 2011, 17, 883-887.	15.2	201
44	Hypothalamic inflammation: a doubleâ€edged sword to nutritional diseases. Annals of the New York Academy of Sciences, 2011, 1243, E1-39.	1.8	131
45	Neural dysregulation of peripheral insulin action and blood pressure by brain endoplasmic reticulum stress. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2939-2944.	3.3	152
46	Defective Hypothalamic Autophagy Directs the Central Pathogenesis of Obesity via the IÎºB Kinase Î² (IKKÎ²)/NF-ÎºB Pathway. Journal of Biological Chemistry, 2011, 286, 32324-32332.	1.6	215
47	NFÎºB-mediated metabolic inflammation in peripheral tissues versus central nervous system. Cell Cycle, 2009, 8, 2542-2548.	1.3	81
48	Hypothalamic IKKÎ²/NF-ÎºB and ER Stress Link Overnutrition to Energy Imbalance and Obesity. Cell, 2008, 135, 61-73.	13.5	1,188
49	IKKÎ²/NF-ÎºB Activation Causes Severe Muscle Wasting in Mice. Cell, 2004, 119, 285-298.	13.5	1,189
50	Young cerebrospinal fluid contains key rejuvenating factors. , 0, , .		0