Xiao-Bing Gao

List of Publications by Year
in descending order

70 papers	14,064 citations	70961 41 h-index	88477 70 g-index
77 all docs	77 docs citations	77 times ranked	13611 citing authors

#	Article	IF	Citations
1	Activation of Hypocretin Neurons in Endometriosis. Reproductive Sciences, 2022, 29, 243-249.	1.1	3
2	From Molecule to Behavior: Hypocretin/orexin Revisited From a Sex-dependent Perspective. Endocrine Reviews, 2022, 43, 743-760.	8.9	3
3	The steroid hormone estriol (E3) regulates epigenetic programming of fetal mouse brain and reproductive tract. BMC Biology, 2022, 20, 93.	1.7	7
4	Ucp2-dependent microglia-neuronal coupling controls ventral hippocampal circuit function and anxiety-like behavior. Molecular Psychiatry, 2021, 26, 2740-2752.	4.1	20
5	Hunger-promoting AgRP neurons trigger an astrocyte-mediated feed-forward autoactivation loop in mice. Journal of Clinical Investigation, 2021, 131, .	3.9	38
6	A step towards the automation of intracytoplasmic sperm injection: real time confirmation of mouse and human oocyte penetration and viability by electrical resistance measurement. Fertility and Sterility, 2020, 113, 234-236.	0.5	9
7	Impaired hypocretin/orexin system alters responses to salient stimuli in obese male mice. Journal of Clinical Investigation, 2020, 130, 4985-4998.	3.9	21
8	Acetylcholine is released in the basolateral amygdala in response to predictors of reward and enhances the learning of cue-reward contingency. ELife, 2020, 9, .	2.8	55
9	A step towards the automation of intracytoplasmic sperm injection (ICSI): real time confirmation of oocyte penetration by electrical resistance measurement. Fertility and Sterility, 2019, 112, e90-e91.	0.5	0
10	Mediation of the Acute Stress Response by the Skeleton. Cell Metabolism, 2019, 30, 890-902.e8.	7.2	110
11	Dopamine neuronal protection in the mouse Substantia nigra by GHSR is independent of electric activity. Molecular Metabolism, 2019, 24, 120-138.	3.0	7
12	Critical role of Lin28â€TNFR2 signalling in cardiac stem cell activation and differentiation. Journal of Cellular and Molecular Medicine, 2019, 23, 0-0.	1.6	7
13	The Role of Melanin-Concentrating Hormone in the Regulation of the Sleep/Wake Cycle: Sleep Promoter or Arousal Modulator?. , 2018, , 57-74.		5
14	Endometriosis alters brain electrophysiology, gene expression and increases pain sensitization, anxiety, and depression in female miceâ€. Biology of Reproduction, 2018, 99, 349-359.	1.2	66
15	A Neural Circuit for Gut-Induced Reward. Cell, 2018, 175, 665-678.e23.	13.5	436
16	Endothelial HIF-1Î± Enables Hypothalamic Glucose Uptake to Drive POMC Neurons. Diabetes, 2017, 66, 1511-1520.	0.3	13
17	Gpr158 mediates osteocalcinâ€™s regulation of cognition. Journal of Experimental Medicine, 2017, 214, 2859-2873.	4.2	194
18	Plasticity of calcium-permeable AMPA glutamate receptors in Pro-opiomelanocortin neurons. ELife, 2017, 6, .	2.8	19

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19	Feeding Behavior: Hypocretin/Orexin Neurons Act between Food Seeking and Eating. Current Biology, 2016, 26, R845-R847.	1.8	10
20	Zika Virus Disrupts Phospho-TBK1 Localization and Mitosis in Human Neuroepithelial Stem Cells and Radial Glia. Cell Reports, 2016, 16, 2576-2592.	2.9	253
21	Neural plasticity in hypocretin neurons: the basis of hypocretinergic regulation of physiological and behavioral functions in animals. Frontiers in Systems Neuroscience, 2015, 9, 142.	1.2	25
22	Hypothalamic POMC neurons promote cannabinoid-induced feeding. Nature, 2015, 519, 45-50.	13.7	336
23	Acetylcholine Acts through Nicotinic Receptors to Enhance the Firing Rate of a Subset of Hypocretin Neurons in the Mouse Hypothalamus through Distinct Presynaptic and Postsynaptic Mechanisms. ENeuro, 2015, 2, ENEURO.0052-14.2015.	0.9	19
24	Function and Dysfunction of Hypocretin/Orexin: An Energetics Point of View. Annual Review of Neuroscience, 2014, 37, 101-116.	5.0	46
25	Maternal and Offspring Pools of Osteocalcin Influence Brain Development and Functions. Cell, 2013, 155, 228-241.	13.5	348
26	Prolyl Endopeptidase-Deficient Mice Have Reduced Synaptic Spine Density in the CA1 Region of the Hippocampus, Impaired LTP, and Spatial Learning and Memory. Cerebral Cortex, 2013, 23, 2007-2014.	1.6	28
27	Repeated in vivo exposure of cocaine induces longâ€lasting synaptic plasticity in hypocretin/orexinâ€producing neurons in the lateral hypothalamus in mice. Journal of Physiology, 2013, 591, 1951-1966.	1.3	43
28	Fetal Radiofrequency Radiation Exposure From 800-1900 Mhz-Rated Cellular Telephones Affects Neurodevelopment and Behavior in Mice. Scientific Reports, 2012, 2, 312.	1.6	109
29	Plasticity in Neurons Synthesizing Wake/Arousal Promoting Hormone Hypocretin/Orexin. Vitamins and Hormones, 2012, 89, 35-59.	0.7	5
30	AgRP neurons regulate development of dopamine neuronal plasticity and nonfood-associated behaviors. Nature Neuroscience, 2012, 15, 1108-1110.	7.1	136
31	Peroxisome proliferationâ€“associated control of reactive oxygen species sets melanocortin tone and feeding in diet-induced obesity. Nature Medicine, 2011, 17, 1121-1127.	15.2	239
32	Nicotine Decreases Food Intake Through Activation of POMC Neurons. Science, 2011, 332, 1330-1332.	6.0	337
33	An Arousing Discovery on Catalepsy: Orexin Regulates Vestibular Motor Functions. Neuron, 2011, 69, 588-590.	3.8	3
34	Intracellular energy status regulates activity in hypocretin/orexin neurones: a link between energy and behavioural states. Journal of Physiology, 2011, 589, 4157-4166.	1.3	43
35	Endometrial stem cell transplantation restores dopamine production in a Parkinsonâ€™s disease model. Journal of Cellular and Molecular Medicine, 2011, 15, 747-755.	1.6	146
36	Erk1/2 Mediates Leptin Receptor Signaling in the Ventral Tegmental Area. PLoS ONE, 2011, 6, e27180.	1.1	30

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37	Experienceâ€dependent plasticity in hypocretin/orexin neurones: reâ€setting arousal threshold. Acta Physiologica, 2010, 198, 251-262.	1.8	17
38	Early-Life Experience Reduces Excitation to Stress-Responsive Hypothalamic Neurons and Reprograms the Expression of Corticotropin-Releasing Hormone. Journal of Neuroscience, 2010, 30, 703-713.	1.7	150
39	Direct Evidence for Wake-Related Increases and Sleep-Related Decreases in Synaptic Strength in Rodent Cortex. Journal of Neuroscience, 2010, 30, 8671-8675.	1.7	197
40	Corticosterone Regulates Synaptic Input Organization of POMC and NPY/AgRP Neurons in Adult Mice. Endocrinology, 2010, 151, 5395-5402.	1.4	74
41	Agrp Neurons Mediate Sirt1's Action on the Melanocortin System and Energy Balance: Roles for Sirt1 in Neuronal Firing and Synaptic Plasticity. Journal of Neuroscience, 2010, 30, 11815-11825.	1.7	194
42	Ghrelin Promotes and Protects Nigrostriatal Dopamine Function via a UCP2-Dependent Mitochondrial Mechanism. Journal of Neuroscience, 2009, 29, 14057-14065.	1.7	245
43	A Serotonin-Dependent Mechanism Explains the Leptin Regulation of Bone Mass, Appetite, and Energy Expenditure. Cell, 2009, 138, 976-989.	13.5	565
44	Electrophysiological effects of MCH on neurons in the hypothalamus. Peptides, 2009, 30, 2025-2030.	1.2	37
45	Prolylcarboxypeptidase regulates food intake by inactivating Î±-MSH in rodents. Journal of Clinical Investigation, 2009, 119, 2291-303.	3.9	122
46	UCP2 mediates ghrelinâ€™s action on NPY/AgRP neurons by lowering free radicals. Nature, 2008, 454, 846-851.	13.7	633
47	Regulation of Synaptic Efficacy in Hypocretin/Orexin-Containing Neurons by Melanin Concentrating Hormone in the Lateral Hypothalamus. Journal of Neuroscience, 2008, 28, 9101-9110.	1.7	120
48	Adenosine Inhibits Activity of Hypocretin/Orexin Neurons by the A1 Receptor in the Lateral Hypothalamus: A Possible Sleep-Promoting Effect. Journal of Neurophysiology, 2007, 97, 837-848.	0.9	174
49	A Central Thermogenic-like Mechanism in Feeding Regulation: An Interplay between Arcuate Nucleus T3 and UCP2. Cell Metabolism, 2007, 5, 21-33.	7.2	264
50	Anorectic estrogen mimics leptin's effect on the rewiring of melanocortin cells and Stat3 signaling in obese animals. Nature Medicine, 2007, 13, 89-94.	15.2	373
51	Prolonged wakefulness induces experience-dependent synaptic plasticity in mouse hypocretin/orexin neurons. Journal of Clinical Investigation, 2007, 117, 4022-4033.	3.9	103
52	Leptin Receptor Signaling in Midbrain Dopamine Neurons Regulates Feeding. Neuron, 2006, 51, 801-810.	3.8	1,051
53	Ghrelin modulates the activity and synaptic input organization of midbrain dopamine neurons while promoting appetite. Journal of Clinical Investigation, 2006, 116, 3229-3239.	3.9	836
54	Input organization and plasticity of hypocretin neurons. Cell Metabolism, 2005, 1, 279-286.	7.2	185

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55	Neurons Synthesizing Melanin-Concentrating Hormone Identified by Selective Reporter Gene Expression After Transfection In Vitro: Transmitter Responses. Journal of Neurophysiology, 2003, 90, 3978-3985.	0.9	41
56	Hypocretin/Orexin Excites Hypocretin Neurons via a Local Glutamate Neuronâ€"A Potential Mechanism for Orchestrating the Hypothalamic Arousal System. Neuron, 2002, 36, 1169-1181.	3.8	429
57	Excitatory Actions of GABA Increase BDNF Expression via a MAPK-CREBâ€"Dependent Mechanismâ€"A Positive Feedback Circuit in Developing Neurons. Journal of Neurophysiology, 2002, 88, 1005-1015.	0.9	139
58	Hypocretin (orexin) enhances neuron activity and cell synchrony in developing mouse GFPâ€expressing locus coeruleus. Journal of Physiology, 2002, 541, 169-185.	1.3	149
59	Melaninâ€concentrating hormone depresses Lâ€, Nâ€, and P/Qâ€type voltageâ€dependent calcium channels in rat lateral hypothalamic neurons. Journal of Physiology, 2002, 542, 273-286.	1.3	52
60	GABA, Not Glutamate, a Primary Transmitter Driving Action Potentials in Developing Hypothalamic Neurons. Journal of Neurophysiology, 2001, 85, 425-434.	0.9	84
61	Membrane Properties Underlying Patterns of GABA-Dependent Action Potentials in Developing Mouse Hypothalamic Neurons. Journal of Neurophysiology, 2001, 86, 1252-1265.	0.9	24
62	Lateral hypothalamus: Early developmental expression and response to hypocretin (orexin). Journal of Comparative Neurology, 2001, 433, 349-363.	0.9	92
63	Melanin concentrating hormone depresses synaptic activity of glutamate and GABA neurons from rat lateral hypothalamus. Journal of Physiology, 2001, 533, 237-252.	1.3	166
64	GABA release from mouse axonal growth cones. Journal of Physiology, 2000, 523, 629-637.	1.3	64
65	Kainate Acts at Presynaptic Receptors to Increase GABA Release From Hypothalamic Neurons. Journal of Neurophysiology, 1999, 82, 1059-1062.	0.9	41
66	Neurotrophin-3 potentiates excitatory GABAergic synaptic transmission in cultured developing hypothalamic neurones of the rat. Journal of Physiology, 1999, 518, 81-95.	1.3	25
67	The hypocretins: Hypothalamus-specific peptides with neuroexcitatory activity. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 322-327.	3.3	3,579
68	Presynaptic and Postsynaptic Actions and Modulation of Neuroendocrine Neurons by a New Hypothalamic Peptide, Hypocretin/Orexin. Journal of Neuroscience, 1998, 18, 7962-7971.	1.7	524
69	GABA-Dependent Firing of Glutamate-Evoked Action Potentials at AMPA/Kainate Receptors in Developing Hypothalamic Neurons. Journal of Neurophysiology, 1998, 79, 716-726.	0.9	66
70	Glutamate Inhibits GABA Excitatory Activity in Developing Neurons. Journal of Neuroscience, 1998, 18, 10749-10761.	1.7	69