

Jaideep Singh Bains

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

6,507
citations

66234

42
h-index

69108

77
g-index

117
all docs

117
docs citations

117
times ranked

7552
citing authors

#	ARTICLE	IF	CITATIONS
1	A holistic gene-network approach linking stressor heterogeneity to resilience and susceptibility. <i>Neuropsychopharmacology</i> , 2022, 47, 976-977.	2.8	0
2	Chronic alcohol consumption alters homeâ€œcage behaviors and responses to ethologically relevant predator tasks in mice. <i>Alcoholism: Clinical and Experimental Research</i> , 2022, 46, 1616-1629.	1.4	9
3	Astrocyteâ€œMagnocellular Neuron Interactions in Hypothalamic Memory. <i>Masterclass in Neuroendocrinology</i> , 2021, , 81-103.	0.1	0
4	Should I Stay or Should I Go? CRHPVN Neurons Gate State Transitions in Stress-Related Behaviors. <i>Endocrinology</i> , 2021, 162, .	1.4	6
5	Subcellular specificity of cannabinoid effects in striatonigral circuits. <i>Neuron</i> , 2021, 109, 1513-1526.e11.	3.8	29
6	Social communication of affective states. <i>Current Opinion in Neurobiology</i> , 2021, 68, 44-51.	2.0	26
7	Obesity-induced astrocyte dysfunction impairs heterosynaptic plasticity in the orbitofrontal cortex. <i>Cell Reports</i> , 2021, 36, 109563.	2.9	20
8	Behavioral Deficits in Mice with Postnatal Disruption of <i>Ndel1</i> in Forebrain Excitatory Neurons: Implications for Epilepsy and Neuropsychiatric Disorders. <i>Cerebral Cortex Communications</i> , 2021, 2, tgaa096.	0.7	6
9	A versatile computational algorithm for time-series data analysis and machine-learning models. <i>Npj Parkinson's Disease</i> , 2021, 7, 97.	2.5	1
10	Cage-lid hanging behavior as a translationally relevant measure of pain in mice. <i>Pain</i> , 2021, 162, 1416-1425.	2.0	35
11	A genetically encoded fluorescent biosensor for extracellular l-lactate. <i>Nature Communications</i> , 2021, 12, 7058.	5.8	46
12	SOM cells are better at detecting emotion. <i>Nature Neuroscience</i> , 2020, 23, 3-4.	7.1	1
13	Sex-Specific Vasopressin Signaling Buffers Stress-Dependent Synaptic Changes in Female Mice. <i>Journal of Neuroscience</i> , 2020, 40, 8842-8852.	1.7	12
14	Paraventricular nucleus CRH neurons encode stress controllability and regulate defensive behavior selection. <i>Nature Neuroscience</i> , 2020, 23, 398-410.	7.1	106
15	Stress gates an astrocytic energy reservoir to impair synaptic plasticity. <i>Nature Communications</i> , 2020, 11, 2014.	5.8	89
16	Visual-looming Shadow Task with in-vivo Calcium Activity Monitoring to Assess Defensive Behaviors in Mice. <i>Bio-protocol</i> , 2020, 10, e3826.	0.2	2
17	Stressâ€œinduced structural and functional modifications of astrocytesâ€œFurther implicating glia in the central response to stress. <i>Glia</i> , 2019, 67, 1806-1820.	2.5	48
18	A Neuroethics Backbone for the Evolving Canadian Brain Research Strategy. <i>Neuron</i> , 2019, 101, 370-374.	3.8	15

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19	Activation of lateral hypothalamic group III metabotropic glutamate receptors suppresses cocaine-seeking following abstinence and normalizes drug-associated increases in excitatory drive to orexin/hypocretin cells. <i>Neuropharmacology</i> , 2019, 154, 22-33.	2.0	14
20	Balancing tonic and phasic inhibition in hypothalamic corticotropin-releasing hormone neurons. <i>Journal of Physiology</i> , 2018, 596, 1919-1929.	1.3	29
21	Neurotransmitter diversity in pre-synaptic terminals located in the parvocellular neuroendocrine paraventricular nucleus of the rat and mouse hypothalamus. <i>Journal of Comparative Neurology</i> , 2018, 526, 1287-1306.	0.9	18
22	Social transmission and buffering of synaptic changes after stress. <i>Nature Neuroscience</i> , 2018, 21, 393-403.	7.1	130
23	CB1 Receptor Signaling in the Brain: Extracting Specificity from Ubiquity. <i>Neuropsychopharmacology</i> , 2018, 43, 4-20.	2.8	223
24	Presynaptic mGluRs Control the Duration of Endocannabinoid-Mediated DSI. <i>Journal of Neuroscience</i> , 2018, 38, 10444-10453.	1.7	15
25	Optogenetic Activation of A11 Region Increases Motor Activity. <i>Frontiers in Neural Circuits</i> , 2018, 12, 86.	1.4	30
26	Cholecystokinin Switches the Plasticity of GABA Synapses in the Dorsomedial Hypothalamus via Astrocytic ATP Release. <i>Journal of Neuroscience</i> , 2018, 38, 8515-8525.	1.7	33
27	Open-source, cost-effective system for low-light in vivo fiber photometry. <i>Neurophotonics</i> , 2018, 5, 1.	1.7	20
28	Blocking microglial pannexin-1 channels alleviates morphine withdrawal in rodents. <i>Nature Medicine</i> , 2017, 23, 355-360.	15.2	130
29	Glia: emerging from the shadows. <i>Journal of Physiology</i> , 2017, 595, 1883-1883.	1.3	0
30	Relaxin-3/RXFP3 signalling in mouse hypothalamus: no effect of RXFP3 activation on corticosterone, despite reduced presynaptic excitatory input onto paraventricular CRH neurons in vitro. <i>Psychopharmacology</i> , 2017, 234, 1725-1739.	1.5	4
31	Molecular interrogation of hypothalamic organization reveals distinct dopamine neuronal subtypes. <i>Nature Neuroscience</i> , 2017, 20, 176-188.	7.1	384
32	Sexually dimorphic neuronal responses to social isolation. <i>ELife</i> , 2016, 5, .	2.8	67
33	Asynchronous presynaptic glutamate release enhances neuronal excitability during the post-spike refractory period. <i>Journal of Physiology</i> , 2016, 594, 1005-1015.	1.3	16
34	Hypothalamic CRH neurons orchestrate complex behaviours after stress. <i>Nature Communications</i> , 2016, 7, 11937.	5.8	204
35	Neurobiological Interactions Between Stress and the Endocannabinoid System. <i>Neuropsychopharmacology</i> , 2016, 41, 80-102.	2.8	453
36	Embedded Synaptic Feedback in the Neuroendocrine Stress Axis. <i>Journal of Neuroendocrinology</i> , 2015, 27, 481-486.	1.2	2

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37	Stress-related synaptic plasticity in the hypothalamus. <i>Nature Reviews Neuroscience</i> , 2015, 16, 377-388.	4.9	142
38	Osmoregulation Requires Brain Expression of the Renal Na-K-2Cl Cotransporter NKCC2. <i>Journal of Neuroscience</i> , 2015, 35, 5144-5155.	1.7	34
39	Postsynaptic Depolarization Enhances GABA Drive to Dorsomedial Hypothalamic Neurons through Somatodendritic Cholecystokinin Release. <i>Journal of Neuroscience</i> , 2015, 35, 13160-13170.	1.7	14
40	A tonic for anxiety. <i>Nature Neuroscience</i> , 2015, 18, 1434-1435.	7.1	0
41	Optogenetics: 10 years after Chr2 in neurons—views from the community. <i>Nature Neuroscience</i> , 2015, 18, 1202-1212.	7.1	122
42	Beyond inhibition: GABA synapses tune the neuroendocrine stress axis. <i>BioEssays</i> , 2014, 36, 561-569.	1.2	21
43	Experience Salience Gates Endocannabinoid Signaling at Hypothalamic Synapses. <i>Journal of Neuroscience</i> , 2014, 34, 6177-6181.	1.7	21
44	Neuromodulators, stress and plasticity: a role for endocannabinoid signalling. <i>Journal of Experimental Biology</i> , 2014, 217, 102-108.	0.8	14
45	Stress-Induced Metaplasticity at GABA Synapses. , 2014, , 125-136.		4
46	Characterization of A11 Neurons Projecting to the Spinal Cord of Mice. <i>PLoS ONE</i> , 2014, 9, e109636.	1.1	84
47	Physiological Regulation of Magnocellular Neurosecretory Cell Activity: Integration of Intrinsic, Local and Afferent Mechanisms. <i>Journal of Neuroendocrinology</i> , 2013, 25, 678-710.	1.2	132
48	Glucocorticoid feedback uncovers retrograde opioid signaling at hypothalamic synapses. <i>Nature Neuroscience</i> , 2013, 16, 596-604.	7.1	69
49	Noradrenaline is a stress-associated metaplastic signal at GABA synapses. <i>Nature Neuroscience</i> , 2013, 16, 605-612.	7.1	84
50	Changing the tune: plasticity and adaptation of retrograde signals. <i>Trends in Neurosciences</i> , 2013, 36, 471-479.	4.2	30
51	Characterization of Corticotropin-Releasing Hormone neurons in the Paraventricular Nucleus of the Hypothalamus of Crh-IRES-Cre Mutant Mice. <i>PLoS ONE</i> , 2013, 8, e64943.	1.1	134
52	The intricate link between glucocorticoids and endocannabinoids at stress-relevant synapses in the hypothalamus. <i>Neuroscience</i> , 2012, 204, 31-37.	1.1	37
53	Glial Regulation of Neuronal Function: From Synapse to Systems Physiology. <i>Journal of Neuroendocrinology</i> , 2012, 24, 566-576.	1.2	80
54	Cocaine potentiates excitatory drive in the perifornical/lateral hypothalamus. <i>Journal of Physiology</i> , 2012, 590, 3677-3689.	1.3	54

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55	Endocannabinoids Gate State-Dependent Plasticity of Synaptic Inhibition in Feeding Circuits. <i>Neuron</i> , 2011, 71, 529-541.	3.8	58
56	Short-term plasticity impacts information transfer at glutamate synapses onto parvocellular neuroendocrine cells in the paraventricular nucleus of the hypothalamus. <i>Journal of Physiology</i> , 2011, 589, 4259-4270.	1.3	15
57	Monoacylglycerol lipase: stopping surplus at the synapse. <i>Journal of Physiology</i> , 2011, 589, 5335-5336.	1.3	1
58	Dual Regulation of Anterograde and Retrograde Transmission by Endocannabinoids. <i>Journal of Neuroscience</i> , 2011, 31, 12011-12020.	1.7	25
59	MAP Kinases Couple Hindbrain-Derived Catecholamine Signals to Hypothalamic Adrenocortical Control Mechanisms during Glycemia-Related Challenges. <i>Journal of Neuroscience</i> , 2011, 31, 18479-18491.	1.7	42
60	Glutamatergic synaptic transmission in neuroendocrine cells: Basic principles and mechanisms of plasticity. <i>Frontiers in Neuroendocrinology</i> , 2010, 31, 296-306.	2.5	16
61	Metabotropic Glutamate Receptors: Gatekeepers of Homeostasis. <i>Journal of Neuroendocrinology</i> , 2010, 22, 785-792.	1.2	16
62	Stress-induced priming of glutamate synapses unmasks associative short-term plasticity. <i>Nature Neuroscience</i> , 2010, 13, 1257-1264.	7.1	66
63	A synaptocentric view of the neuroendocrine response to stress. <i>European Journal of Neuroscience</i> , 2010, 32, 2011-2021.	1.2	33
64	Repeated Stress Impairs Endocannabinoid Signaling in the Paraventricular Nucleus of the Hypothalamus. <i>Journal of Neuroscience</i> , 2010, 30, 11188-11196.	1.7	129
65	Enteric Glia Are Targets of the Sympathetic Innervation of the Myenteric Plexus in the Guinea Pig Distal Colon. <i>Journal of Neuroscience</i> , 2010, 30, 6801-6809.	1.7	85
66	Functional Interactions between Stress and the Endocannabinoid System: From Synaptic Signaling to Behavioral Output. <i>Journal of Neuroscience</i> , 2010, 30, 14980-14986.	1.7	202
67	Retrograde Opioid Signaling Regulates Glutamatergic Transmission in the Hypothalamus. <i>Journal of Neuroscience</i> , 2009, 29, 7349-7358.	1.7	83
68	Altered chloride homeostasis removes synaptic inhibitory constraint of the stress axis. <i>Nature Neuroscience</i> , 2009, 12, 438-443.	7.1	208
69	Metaplasticity of Hypothalamic Synapses following In Vivo Challenge. <i>Neuron</i> , 2009, 62, 839-849.	3.8	33
70	Astrocyte-Mediated Distributed Plasticity at Hypothalamic Glutamate Synapses. <i>Neuron</i> , 2009, 64, 391-403.	3.8	189
71	Dynamic synapses in the hypothalamic-neurohypophyseal system. <i>Progress in Brain Research</i> , 2008, 170, 119-128.	0.9	4
72	Hemorrhage induced inactivation of presynaptic group III mGluRs controls metaplasticity in circuits regulating fluid balance. <i>FASEB Journal</i> , 2008, 22, 1231.2.	0.2	0

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73	Retrograde Regulation of GABA Transmission by the Tonic Release of Oxytocin and Endocannabinoids Governs Postsynaptic Firing. <i>Journal of Neuroscience</i> , 2007, 27, 1325-1333.	1.7	102
74	Integration of Asynchronously Released Quanta Prolongs the Postsynaptic Spike Window. <i>Journal of Neuroscience</i> , 2007, 27, 6684-6691.	1.7	78
75	Glia: they make your memories stick!. <i>Trends in Neurosciences</i> , 2007, 30, 417-424.	4.2	121
76	Climbing Fiber Discharge Regulates Cerebellar Functions by Controlling the Intrinsic Characteristics of Purkinje Cell Output. <i>Journal of Neurophysiology</i> , 2007, 97, 2590-2604.	0.9	62
77	Brain-Derived Neurotrophic Factor Silences GABA Synapses Onto Hypothalamic Neuroendocrine Cells Through a Postsynaptic Dynamin-Mediated Mechanism. <i>Journal of Neurophysiology</i> , 2006, 95, 2193-2198.	0.9	43
78	Can homeostatic circuits learn and remember?. <i>Journal of Physiology</i> , 2006, 576, 341-347.	1.3	7
79	Importance of K ⁺ -dependent Na ⁺ /Ca ²⁺ -exchanger 2, NCKX2, in Motor Learning and Memory. <i>Journal of Biological Chemistry</i> , 2006, 281, 6273-6282.	1.6	79
80	Norepinephrine triggers release of glial ATP to increase postsynaptic efficacy. <i>Nature Neuroscience</i> , 2005, 8, 1078-1086.	7.1	304
81	C-type Natriuretic Peptide Inhibits L-type Ca ²⁺ Current in Rat Magnocellular Neurosecretory Cells by Activating the NPR-C Receptor. <i>Journal of Neurophysiology</i> , 2005, 94, 612-621.	0.9	20
82	Noradrenaline Triggers Multivesicular Release at Glutamatergic Synapses in the Hypothalamus. <i>Journal of Neuroscience</i> , 2005, 25, 11385-11395.	1.7	44
83	Dopamine Modulates Use-Dependent Plasticity of Inhibitory Synapses. <i>Journal of Neuroscience</i> , 2004, 24, 5162-5171.	1.7	39
84	Backtalk in neurons. <i>Trends in Endocrinology and Metabolism</i> , 2003, 14, 2-3.	3.1	2
85	Priming of Excitatory Synapses by $\hat{1}$ Adrenoceptor-Mediated Inhibition of Group III Metabotropic Glutamate Receptors. <i>Journal of Neuroscience</i> , 2003, 23, 6223-6231.	1.7	45
86	Chapter 17 Dendritic action potentials in magnocellular neurons. <i>Progress in Brain Research</i> , 2002, 139, 225-234.	0.9	2
87	Statistical Model Relating CA3 Burst Probability to Recovery From Burst-Induced Depression at Recurrent Collateral Synapses. <i>Journal of Neurophysiology</i> , 2001, 86, 2736-2747.	0.9	43
88	Slowly Inactivating Potassium Conductance (ID): A Potential Target for Stroke Therapy. <i>Stroke</i> , 2001, 32, 2624-2634.	1.0	12
89	Reciprocal interactions between CA3 network activity and strength of recurrent collateral synapses. <i>Nature Neuroscience</i> , 1999, 2, 720-726.	7.1	145
90	Activation of N-methyl-d-aspartate receptors evokes calcium spikes in the dendrites of rat hypothalamic paraventricular nucleus neurons. <i>Neuroscience</i> , 1999, 90, 885-891.	1.1	23

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91	Regulation of autonomic pathways by angiotensin. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 1999, 6, 19.	0.6	8
92	Presynaptic modulation of CA3 network activity. <i>Nature Neuroscience</i> , 1998, 1, 201-209.	7.1	188
93	Hyperpolarizing after-potentials regulate generation of long-duration plateau depolarizations in rat paraventricular nucleus neurons. <i>European Journal of Neuroscience</i> , 1998, 10, 1412-1421.	1.2	9
94	Reduced NMDA receptor sensitivity may underlie the resistance of subpopulations of PVN neurons to excitotoxicity. <i>NeuroReport</i> , 1997, 8, 2101-2105.	0.6	13
95	Long duration pressor responses following activation of subfornical organ neurons in rats are the result of increased circulating vasopressin. <i>Neuroscience Letters</i> , 1997, 233, 81-84.	1.0	7
96	Nitric oxide depolarizes Type II paraventricular nucleus neurons in vitro. <i>Neuroscience</i> , 1997, 79, 149-159.	1.1	66
97	Electrophysiology of the Circumventricular Organs. <i>Frontiers in Neuroendocrinology</i> , 1996, 17, 440-475.	2.5	103
98	Angiotensin II neurotransmitter actions in paraventricular nucleus are potentiated by a nitric oxide synthase inhibitor. <i>Regulatory Peptides</i> , 1994, 50, 52-59.	1.9	58
99	Functional evidence that the angiotensin antagonist losartan crosses the blood-brain barrier in the rat. <i>Brain Research Bulletin</i> , 1993, 30, 33-39.	1.4	125
100	Angiotensin II actions in paraventricular nucleus: functional evidence for neurotransmitter role in efferents originating in subfornical organ. <i>Brain Research</i> , 1992, 599, 223-229.	1.1	122