Newton S Canteras

List of Publications by Year
in descending order

113 papers	9,676 citations	46918 47 h-index	40881 93 g-index
125 all docs	125 docs citations	125 times ranked	6288 citing authors

#	Article	IF	Citations
1	The anterior cingulate cortex and its role in controlling contextual fear memory to predatory threats. ELife, 2022, 11, .	2.8	18
2	Neural correlates of distinct levels of predatory threat in dorsal periaqueductal grey neurons. European Journal of Neuroscience, 2022, 55, 1504-1518.	1.2	3
3	Predator fear memory depends on glucocorticoid receptors and protein synthesis in the basolateral amygdala and ventral hippocampus. Psychoneuroendocrinology, 2022, 141, 105757.	1.3	2
4	Shared Dorsal Periaqueductal Gray Activation Patterns during Exposure to Innate and Conditioned Threats. Journal of Neuroscience, 2021, 41, 5399-5420.	1.7	13
5	Dorsal periaqueductal gray ensembles represent approach and avoidance states. ELife, 2021, 10, .	2.8	26
6	Coordination of escape and spatial navigation circuits orchestrates versatile flight from threats. Neuron, 2021, 109, 1848-1860.e8.	3.8	47
7	Orexin 1 and 2 Receptors in the Prelimbic Cortex Modulate Threat Valuation. Neuroscience, 2021, 468, 158-167.	1.1	2
8	Dorsal premammillary projection to periaqueductal gray controls escape vigor from innate and conditioned threats. ELife, 2021, 10, .	2.8	22
9	Defensive behaviors and brain regional activation changes in rats confronting a snake. Behavioural Brain Research, 2020, 381, 112469.	1.2	30
10	Development of Limbic System Stress-Threat Circuitry. Masterclass in Neuroendocrinology, 2020, , 317-343.	0.1	2
11	Revealing a Cortical Circuit Responsive to Predatory Threats and Mediating Contextual Fear Memory. Cerebral Cortex, 2019, 29, 3074-3090.	1.6	11
12	Inactivation of the dorsolateral periaqueductal gray matter impairs the promoting influence of stress on fear memory during retrieval. Brain Structure and Function, 2019, 224, 3117-3132.	1.2	5
13	The rostrodorsal periaqueductal gray influences both innate fear responses and acquisition of fear memory in animals exposed to a live predator. Brain Structure and Function, 2019, 224, 1537-1551.	1.2	21
14	Hypothalamic survival circuits related to social and predatory defenses and their interactions with metabolic control, reproductive behaviors and memory systems. Current Opinion in Behavioral Sciences, 2018, 24, 7-13.	2.0	15
15	Roles of the anterior basolateral amygdalar nucleus during exposure to a live predator and to a predator-associated context. Behavioural Brain Research, 2018, 342, 51-56.	1.2	17
16	Influence of the anteromedial thalamus on social defeat-associated contextual fear memory. Behavioural Brain Research, 2018, 339, 269-277.	1.2	15
17	A role for the anteromedial thalamic nucleus in the acquisition of contextual fear memory to predatory threats. Brain Structure and Function, 2017, 222, 113-129.	1.2	31
18	Integrated Control of Predatory Hunting by the Central Nucleus of the Amygdala. Cell, 2017, 168, 311-324.e18.	13.5	221

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19	On the verge of a respiratory-type panic attack: Selective activations of rostrolateral and caudoventrolateral periaqueductal gray matter following short-lasting escape to a low dose of potassium cyanide. Neuroscience, 2017, 348, 228-240.	1.1	8
20	The periaqueductal gray and primal emotional processing critical to influence complex defensive responses, fear learning and reward seeking. Neuroscience and Biobehavioral Reviews, 2017, 76, 39-47.	2.9	105
21	Evidence of a Role for the Lateral Hypothalamic Area Juxtadorsomedial Region (LHAjd) in Defensive Behaviors Associated with Social Defeat. Frontiers in Systems Neuroscience, 2016, 10, 92.	1.2	12
22	Testing conditions in shock-based contextual fear conditioning influence both the behavioral responses and the activation of circuits potentially involved in contextual avoidance. Behavioural Brain Research, 2016, 315, 123-129.	1.2	10
23	Effect of intrahippocampal administration of anti-melanin-concentrating hormone on spatial food-seeking behavior in rats. Peptides, 2016, 76, 130-138.	1.2	13
24	Olfactory instruction for fear: neural system analysis. Frontiers in Neuroscience, 2015, 9, 276.	1.4	27
25	Restraint stress and social defeat: What they have in common. Physiology and Behavior, 2015, 146, 105-110.	1.0	21
26	Central action of Insulin on the Modulation of Autonomic Balance to Control Hepatic Glucose of Wistar and SHR: Any Interaction Between Hypothalamic Paraventricular Nucleus and Dorsal Vagal Complex?. FASEB Journal, 2015, 29, 828.7.	0.2	2
27	NK1 receptors antagonism of dorsal hippocampus counteract the anxiogenic-like effects induced by pilocarpine in non-convulsive Wistar rats. Behavioural Brain Research, 2014, 265, 53-60.	1.2	8
28	Functional mapping of the circuits involved in the expression of contextual fear responses in socially defeated animals. Brain Structure and Function, 2014, 219, 931-946.	1.2	25
29	Periaqueductal gray Î¼ and Îº opioid receptors determine behavioral selection from maternal to predatory behavior in lactating rats. Behavioural Brain Research, 2014, 274, 62-72.	1.2	20
30	Executive and modulatory neural circuits of defensive reactions: Implications for panic disorder. Neuroscience and Biobehavioral Reviews, 2014, 46, 352-364.	2.9	72
31	Independent hypothalamic circuits for social and predator fear. Nature Neuroscience, 2013, 16, 1731-1733.	7.1	198
32	Hypothalamic melanin-concentrating hormone projections to the septo-hippocampal complex in the rat. Journal of Chemical Neuroanatomy, 2013, 47, 1-14.	1.0	23
33	Lesions of the ventral premammillary nucleus disrupt the dynamic changes in Kiss1 and GnRH expression characteristic of the proestrusâ€"estrus transition. Neuroscience, 2013, 241, 67-79.	1.1	43
34	Ventral premammillary nucleus as a critical sensory relay to the maternal aggression network. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14438-14443.	3.3	41
35	The periaqueductal gray as a critical site to mediate reward seeking during predatory hunting. Behavioural Brain Research, 2012, 226, 32-40.	1.2	37
36	Both the dorsal hippocampus and the dorsolateral striatum are needed for rat navigation in the Morris water maze. Behavioural Brain Research, 2012, 226, 171-178.	1.2	54

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37	Hypothalamic Goal-directed Behavior â€“ Ingestive, Reproductive and Defensive. , 2012, , 539-562.		6
38	What ethologically based models have taught us about the neural systems underlying fear and anxiety. Brazilian Journal of Medical and Biological Research, 2012, 45, 321-327.	0.7	25
39	The many paths to fear. Nature Reviews Neuroscience, 2012, 13, 651-658.	4.9	484
40	The role of the ventrolateral caudoputamen in predatory hunting. Physiology and Behavior, 2012, 105, 893-898.	1.0	14
41	The Dorsolateral Periaqueductal Gray and Its Role in Mediating Fear Learning to Life Threatening Events. PLoS ONE, 2012, 7, e50361.	1.1	51
42	A study of the catecholaminergic inputs to the dorsal premammillary nucleus. Neuroscience Letters, 2011, 501, 157-162.	1.0	4
43	Amygdalar roles during exposure to a live predator and to a predator-associated context. Neuroscience, 2011, 172, 314-328.	1.1	99
44	Morphineâ€Induced Changes in Opioid Sensitivity in Postpartum Females: A Unique Progesterone Response. Journal of Neuroendocrinology, 2011, 23, 1134-1138.	1.2	8
45	The Retinohypothalamic tract: Comparison of axonal projection patterns from four major targets. Brain Research Reviews, 2011, 65, 150-183.	9.1	54
46	Acquisition of Pavlovian Fear Conditioning Using Î²-Adrenoceptor Activation of the Dorsal Premammillary Nucleus as an Unconditioned Stimulus to Mimic Live Predator-Threat Exposure. Neuropsychopharmacology, 2011, 36, 926-939.	2.8	36
47	Short- and long-term anxiogenic effects induced by a single injection of subconvulsant doses of pilocarpine in rats: investigation of the putative role of hippocampal pathways. Psychopharmacology, 2010, 212, 653-661.	1.5	15
48	Morphine treatment during pregnancy modulates behavioral selection in lactating rats. Physiology and Behavior, 2010, 101, 40-44.	1.0	18
49	The periaqueductal gray and its potential role in maternal behavior inhibition in response to predatory threats. Behavioural Brain Research, 2010, 209, 226-233.	1.2	56
50	The role of the superior colliculus in predatory hunting. Neuroscience, 2010, 165, 1-15.	1.1	68
51	Evidence for the thalamic targets of the medial hypothalamic defensive system mediating emotional memory to predatory threats. Neurobiology of Learning and Memory, 2010, 93, 479-486.	1.0	31
52	Neuroanatomy of Anxiety. Current Topics in Behavioral Neurosciences, 2009, 2, 77-96.	0.8	93
53	Afferent Connections to the Rostrolateral Part of the Periaqueductal Gray: A Critical Region Influencing the Motivation Drive to Hunt and Forage. Neural Plasticity, 2009, 2009, 1-11.	1.0	36
54	Dissecting the brain's fear system reveals the hypothalamus is critical for responding in subordinate conspecific intruders. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4870-4875.	3.3	160

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55	The Ventral Premammillary Nucleus Links Fasting-Induced Changes in Leptin Levels and Coordinated Luteinizing Hormone Secretion. Journal of Neuroscience, 2009, 29, 5240-5250.	1.7	112
56	Sensing danger through the olfactory system: The role of the hypothalamic dorsal premammillary nucleus. Neuroscience and Biobehavioral Reviews, 2008, 32, 1228-1235.	2.9	52
57	Hypothalamic sites responding to predator threats â€“ the role of the dorsal premammillary nucleus in unconditioned and conditioned antipredatory defensive behavior. European Journal of Neuroscience, 2008, 28, 1003-1015.	1.2	115
58	Architectonic subdivisions of the amygdalar complex of a primitive marsupial (Didelphis aurita). Brain Research Bulletin, 2008, 76, 26-35.	1.4	5
59	Hemiparkinsonian rats rotate toward the side with the weaker dopaminergic neurotransmission. Behavioural Brain Research, 2008, 189, 364-372.	1.2	36
60	Investigation of the hypothalamic defensive system in the mouse. Behavioural Brain Research, 2008, 192, 185-190.	1.2	60
61	New Perspectives on Î²-Adrenergic Mediation of Innate and Learned Fear Responses to Predator Odor. Journal of Neuroscience, 2008, 28, 13296-13302.	1.7	54
62	Chapter 3.2 Neural systems activated in response to predators and partial predator stimuli. Handbook of Behavioral Neuroscience, 2008, 17, 125-140.	0.7	5
63	Chapter 3.3 A behavioral and neural systems comparison of unconditioned and conditioned defensive behavior. Handbook of Behavioral Neuroscience, 2008, , 141-153.	0.7	5
64	Maternal Choices. , 2008, , 75-82.		1
65	Periaqueductal gray cholecystokinin infusions block morphine-induced disruption of maternal behavior. Peptides, 2007, 28, 657-662.	1.2	22
66	Effects of ventrolateral striatal inactivation on predatory hunting. Physiology and Behavior, 2007, 90, 669-673.	1.0	9
67	Pre-training to find a hidden platform in the Morris water maze can compensate for a deficit to find a cued platform in a rat model of Parkinsonâ€™s disease. Neurobiology of Learning and Memory, 2007, 87, 451-463.	1.0	21
68	Opiate regulation of behavioral selection during lactation. Pharmacology Biochemistry and Behavior, 2007, 87, 315-320.	1.3	26
69	Blockade of neurotensin receptors during amphetamine discontinuation indicates individual variability. Neuropeptides, 2007, 41, 83-91.	0.9	19
70	Place learning strategy of substantia nigra pars compacta-lesioned rats.. Behavioral Neuroscience, 2006, 120, 1279-1284.	0.6	26
71	The supragenual nucleus: A putative relay station for ascending vestibular signs to head direction cells. Brain Research, 2006, 1094, 138-148.	1.1	50
72	A Role for the Periaqueductal Gray in Switching Adaptive Behavioral Responses. Journal of Neuroscience, 2006, 26, 2583-2589.	1.7	88

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73	Comparison of bilaterally 6-OHDA- and MPTP-lesioned rats as models of the early phase of Parkinson's disease: Histological, neurochemical, motor and memory alterations. Journal of Neuroscience Methods, 2005, 148, 78-87.	1.3	181
74	Defensive behavior. Neuroscience and Biobehavioral Reviews, 2005, 29, 1121-1122.	2.9	4
75	An alternative experimental procedure for studying predator-related defensive responses. Neuroscience and Biobehavioral Reviews, 2005, 29, 1255-1263.	2.9	52
76	Lesions of structures showing FOS expression to cat presentation: Effects on responsivity to a Cat, Cat odor, and nonpredator threat. Neuroscience and Biobehavioral Reviews, 2005, 29, 1243-1253.	2.9	158
77	Projections from the subfornical region of the lateral hypothalamic area. Journal of Comparative Neurology, 2005, 493, 412-438.	0.9	105
78	Lesion of the substantia nigra, pars compacta impairs delayed alternation in a Y-maze in rats. Experimental Neurology, 2005, 192, 134-141.	2.0	48
79	Functional mapping of the prosencephalic systems involved in organizing predatory behavior in rats. Neuroscience, 2005, 130, 1055-1067.	1.1	58
80	Is the unilateral lesion of the left substantia nigra pars compacta sufficient to induce working memory impairment in rats?. Neurobiology of Learning and Memory, 2004, 82, 150-158.	1.0	36
81	Modulation of predatory odor processing following lesions to the dorsal premammillary nucleus. Neuroscience Letters, 2004, 372, 22-26.	1.0	54
82	Analgesia and c-Fos expression in the periaqueductal gray induced by electroacupuncture at the Zusanli point in rats. Brain Research, 2003, 973, 196-204.	1.1	50
83	A role for the periaqueductal grey in opioidergic inhibition of maternal behaviour. European Journal of Neuroscience, 2003, 18, 667-674.	1.2	54
84	A direct projection from superior colliculus to substantia nigra for detecting salient visual events. Nature Neuroscience, 2003, 6, 974-980.	7.1	304
85	Predatory hunting and exposure to a live predator induce opposite patterns of Fos immunoreactivity in the PAG. Behavioural Brain Research, 2003, 138, 17-28.	1.2	106
86	Evidence for the substantia nigra pars compacta as an essential component of a memory system independent of the hippocampal memory system. Neurobiology of Learning and Memory, 2003, 79, 236-242.	1.0	87
87	The role of lateral septal NK1 receptors in mediating anxiogenic effects induced by intracerebroventricular injection of substance P. Behavioural Brain Research, 2002, 134, 411-415.	1.2	32
88	The medial hypothalamic defensive system: Hodological organization and functional implications. Pharmacology Biochemistry and Behavior, 2002, 71, 481-491.	1.3	360
89	The lesion of the rat substantia nigra pars compacta dopaminergic neurons as a model for Parkinson's disease memory disabilities. Cellular and Molecular Neurobiology, 2002, 22, 227-237.	1.7	103
90	Combinatorial amygdalar inputs to hippocampal domains and hypothalamic behavior systems. Brain Research Reviews, 2001, 38, 247-289.	9.1	557

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91	Memory disruption in rats with nigral lesions induced by MPTP: a model for early Parkinson's disease amnesia. Behavioural Brain Research, 2001, 124, 9-18.	1.2	109
92	Lesions of the Dorsomedial Hypothalamic Nucleus Do Not Influence the Daily Profile of Pineal Metabolism in Rats. Neuroendocrinology, 2001, 73, 123-128.	1.2	5
93	L-Dopa restores striatal dopamine level but fails to reverse MPTP-induced memory deficits in rats. International Journal of Neuropsychopharmacology, 2001, 4, 361-70.	1.0	48
94	Tracing from the dorsal premammillary nucleus prosencephalic systems involved in the organization of innate fear responses. Neuroscience and Biobehavioral Reviews, 2001, 25, 661-668.	2.9	76
95	Connections of the nucleus incertus. Journal of Comparative Neurology, 2001, 438, 86-122.	0.9	196
96	Afferent connections of the dorsal premammillary nucleus. Journal of Comparative Neurology, 2000, 423, 83-98.	0.9	50
97	The Role of the Retrochiasmatic Area in the Control of Pineal Metabolism. Neuroendocrinology, 1999, 69, 97-104.	1.2	16
98	Projections of the basal retrochiasmatic area: a neural site involved in the photic control of pineal metabolism. Brain Research, 1999, 839, 35-40.	1.1	13
99	Connections of the precommissural nucleus. , 1999, 408, 23-45.		32
100	Fos-like immunoreactivity in the periaqueductal gray of rats exposed to a natural predator. NeuroReport, 1999, 10, 413-418.	0.6	181
101	Anxiogenic-like effect induced by substance P injected into the lateral septal nucleus. NeuroReport, 1999, 10, 3399-3403.	0.6	41
102	Nitric oxide synthase activity in the dorsal periaqueductal gray of rats expressing innate fear responses. NeuroReport, 1998, 9, 571-576.	0.6	45
103	Severe Reduction of Rat Defensive Behavior to a Predator by Discrete Hypothalamic Chemical Lesions. Brain Research Bulletin, 1997, 44, 297-305.	1.4	234
104	Organization of projections from the dorsomedial nucleus of the hypothalamus: A PHA-L study in the rat. , 1996, 376, 143-173.		295
105	Organization of projections from the medial nucleus of the amygdala: A PHAL study in the rat. Journal of Comparative Neurology, 1995, 360, 213-245.	0.9	642
106	Organization of projections from the anterior hypothalamic nucleus: APhaseolus vulgaris-leucoagglutinin study in the rat. Journal of Comparative Neurology, 1994, 348, 1-40.	0.9	192
107	Organization of projections from the ventromedial nucleus of the hypothalamus: APhaseolus vulgaris-Leucoagglutinin study in the rat. Journal of Comparative Neurology, 1994, 348, 41-79.	0.9	529
108	The dorsal premammillary nucleus: an unusual component of the mammillary body.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 10089-10093.	3.3	134

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109	Connections of the posterior nucleus of the amygdala. Journal of Comparative Neurology, 1992, 324, 143-179.	0.9	242
110	Projections of the ventral subiculum to the amygdala, septum, and hypothalamus: A PHAL anterograde tract-tracing study in the rat. Journal of Comparative Neurology, 1992, 324, 180-194.	0.9	491
111	Projections of the ventral premammillary nucleus. Journal of Comparative Neurology, 1992, 324, 195-212.	0.9	182
112	Afferent connections of the subthalamic nucleus: a combined retrograde and anterograde horseradish peroxidase study in the rat. Brain Research, 1990, 513, 43-59.	1.1	282
113	Somatosensory inputs to the subthalamic nucleus: a combined retrograde and anterograde horseradish peroxidase study in the rat. Brain Research, 1988, 458, 53-64.	1.1	76