Gregory J Quirk

List of Publications by Year
in descending order

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78 papers	18,734 citations	61857 43 h-index	76769 74 g-index
108 all docs	108 docs citations	108 times ranked	10664 citing authors

#	Article	IF	Citations
1	Neurons in medial prefrontal cortex signal memory for fear extinction. Nature, 2002, 420, 70-74.	13.7	1,692
2	Neural Mechanisms of Extinction Learning and Retrieval. Neuropsychopharmacology, 2008, 33, 56-72.	2.8	1,399
3	Neuronal signalling of fear memory. Nature Reviews Neuroscience, 2004, 5, 844-852.	4.9	1,266
4	Fear Extinction as a Model for Translational Neuroscience: Ten Years of Progress. Annual Review of Psychology, 2012, 63, 129-151.	9.9	1,202
5	Dissociable Roles of Prelimbic and Infralimbic Cortices, Ventral Hippocampus, and Basolateral Amygdala in the Expression and Extinction of Conditioned Fear. Neuropsychopharmacology, 2011, 36, 529-538.	2.8	991
6	The Role of Ventromedial Prefrontal Cortex in the Recovery of Extinguished Fear. Journal of Neuroscience, 2000, 20, 6225-6231.	1.7	877
7	Stimulation of Medial Prefrontal Cortex Decreases the Responsiveness of Central Amygdala Output Neurons. Journal of Neuroscience, 2003, 23, 8800-8807.	1.7	820
8	Fear conditioning enhances short-latency auditory responses of lateral amygdala neurons: Parallel recordings in the freely behaving rat. Neuron, 1995, 15, 1029-1039.	3.8	745
9	Prefrontal Mechanisms in Extinction of Conditioned Fear. Biological Psychiatry, 2006, 60, 337-343.	0.7	616
10	Prefrontal involvement in the regulation of emotion: convergence of rat and human studies. Current Opinion in Neurobiology, 2006, 16, 723-727.	2.0	605
11	Microstimulation reveals opposing influences of prelimbic and infralimbic cortex on the expression of conditioned fear. Learning and Memory, 2006, 13, 728-733.	0.5	593
12	Prefrontal control of fear: more than just extinction. Current Opinion in Neurobiology, 2010, 20, 231-235.	2.0	513
13	Activity in Prelimbic Cortex Is Necessary for the Expression of Learned, But Not Innate, Fears. Journal of Neuroscience, 2007, 27, 840-844.	1.7	493
14	Consolidation of Fear Extinction Requires NMDA Receptor-Dependent Bursting in the Ventromedial Prefrontal Cortex. Neuron, 2007, 53, 871-880.	3.8	460
15	Sustained Conditioned Responses in Prelimbic Prefrontal Neurons Are Correlated with Fear Expression and Extinction Failure. Journal of Neuroscience, 2009, 29, 8474-8482.	1.7	449
16	A Role for the Human Dorsal Anterior Cingulate Cortex in Fear Expression. Biological Psychiatry, 2007, 62, 1191-1194.	0.7	425
17	Consolidation of Fear Extinction Requires Protein Synthesis in the Medial Prefrontal Cortex. Journal of Neuroscience, 2004, 24, 5704-5710.	1.7	423
18	Induction of Fear Extinction with Hippocampal-Infralimbic BDNF. Science, 2010, 328, 1288-1290.	6.0	408

#	Article	IF	Citations
19	A temporal shift in the circuits mediating retrieval of fear memory. Nature, 2015, 519, 460-463.	13.7	404
20	Gating of Fear in Prelimbic Cortex by Hippocampal and Amygdala Inputs. Neuron, 2012, 76, 804-812.	3.8	393
21	Revisiting the Role of Infralimbic Cortex in Fear Extinction with Optogenetics. Journal of Neuroscience, 2015, 35, 3607-3615.	1.7	301
22	Memory for Extinction of Conditioned Fear Is Long-lasting and Persists Following Spontaneous Recovery. Learning and Memory, 2002, 9, 402-407.	0.5	300
23	Inhibition of the Amygdala: Key to Pathological States?. Annals of the New York Academy of Sciences, 2003, 985, 263-272.	1.8	277
24	Circuit-Based Corticostriatal Homologies Between Rat and Primate. Biological Psychiatry, 2016, 80, 509-521.	0.7	265
25	Erasing Fear Memories with Extinction Training: Figure 1.. Journal of Neuroscience, 2010, 30, 14993-14997.	1.7	206
26	Lesions of the Basal Amygdala Block Expression of Conditioned Fear But Not Extinction. Journal of Neuroscience, 2005, 25, 9680-9685.	1.7	197
27	A NeuroD1 AAV-Based Gene Therapy for Functional Brain Repair after Ischemic Injury through InÂVivo Astrocyte-to-Neuron Conversion. Molecular Therapy, 2020, 28, 217-234.	3.7	163
28	Hippocampalâ€“Prefrontal BDNF and Memory for Fear Extinction. Neuropsychopharmacology, 2014, 39, 2161-2169.	2.8	157
29	Neural Structures Mediating Expression and Extinction of Platform-Mediated Avoidance. Journal of Neuroscience, 2014, 34, 9736-9742.	1.7	150
30	Thalamic Regulation of Sucrose Seeking during Unexpected Reward Omission. Neuron, 2017, 94, 388-400.e4.	3.8	142
31	The Brain-Derived Neurotrophic Factor Val66Met Polymorphism Predicts Response to Exposure Therapy in Posttraumatic Stress Disorder. Biological Psychiatry, 2013, 73, 1059-1063.	0.7	139
32	Viewpoints: Dialogues on the functional role of the ventromedial prefrontal cortex. Nature Neuroscience, 2016, 19, 1545-1552.	7.1	135
33	Deep brain stimulation of the ventral striatum enhances extinction of conditioned fear. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8764-8769.	3.3	124
34	Infralimbic D2 Receptors Are Necessary for Fear Extinction and Extinction-Related Tone Responses. Biological Psychiatry, 2010, 68, 1055-1060.	0.7	116
35	Systemic Propranolol Acts Centrally to Reduce Conditioned Fear in Rats Without Impairing Extinction. Biological Psychiatry, 2009, 65, 887-892.	0.7	99
36	Memory for Fear Extinction Requires mGluR5-Mediated Activation of Infralimbic Neurons. Cerebral Cortex, 2011, 21, 727-735.	1.6	91

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37	Persistent active avoidance correlates with activity in prelimbic cortex and ventral striatum. Frontiers in Behavioral Neuroscience, 2015, 9, 184.	1.0	88
38	A time-dependent role of midline thalamic nuclei in the retrieval of fear memory. Neuropharmacology, 2012, 62, 457-463.	2.0	84
39	Prelimbic and Infralimbic Neurons Signal Distinct Aspects of Appetitive Instrumental Behavior. PLoS ONE, 2013, 8, e57575.	1.1	78
40	Active avoidance requires inhibitory signaling in the rodent prelimbic prefrontal cortex. ELife, 2018, 7, .	2.8	66
41	When scientific paradigms lead to tunnel vision: lessons from the study of fear. Npj Science of Learning, 2017, 2, .	1.5	58
42	Bidirectional Modulation of Extinction of Drug Seeking by Deep Brain Stimulation of the Ventral Striatum. Biological Psychiatry, 2016, 80, 682-690.	0.7	49
43	Alteration of BDNF in the medial prefrontal cortex and the ventral hippocampus impairs extinction of avoidance. Neuropsychopharmacology, 2018, 43, 2636-2644.	2.8	49
44	Deep brain stimulation of the ventral striatum increases BDNF in the fear extinction circuit. Frontiers in Behavioral Neuroscience, 2013, 7, 102.	1.0	48
45	An Avoidance-Based Rodent Model of Exposure With Response Prevention Therapy for Obsessive-Compulsive Disorder. Biological Psychiatry, 2016, 80, 534-540.	0.7	48
46	The study of active avoidance: A platform for discussion. Neuroscience and Biobehavioral Reviews, 2019, 107, 229-237.	2.9	48
47	Individual variability in behavior and functional networks predicts vulnerability using an animal model of PTSD. Nature Communications, 2019, 10, 2372.	5.8	46
48	Stress disorders of families of the disappeared: A controlled study in Honduras. Social Science and Medicine, 1994, 39, 1675-1679.	1.8	42
49	Enhancement of Fear Extinction with Deep Brain Stimulation: Evidence for Medial Orbitofrontal Involvement. Neuropsychopharmacology, 2015, 40, 1726-1733.	2.8	39
50	Divergent projections of the prelimbic cortex bidirectionally regulate active avoidance. ELife, 2020, 9, .	2.8	33
51	Extinction: New Excitement for an Old Phenomenon. Biological Psychiatry, 2006, 60, 317-318.	0.7	32
52	Fear signaling in the prelimbic-amygdala circuit: a computational modeling and recording study. Journal of Neurophysiology, 2013, 110, 844-861.	0.9	28
53	Prefrontal circuits signaling active avoidanceÂretrieval and extinction. Psychopharmacology, 2019, 236, 399-406.	1.5	27
54	Early malnutrition followed by nutritional restoration lowers the conduction velocity and excitability of the corticospinal tract. Brain Research, 1995, 670, 277-282.	1.1	25

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55	The effect of repeated exposure to ethanol on pre-existing fear memories in rats. Psychopharmacology, 2015, 232, 3615-3622.	1.5	23
56	The Storytelling Brain: How Neuroscience Stories Help Bridge the Gap between Research and Society. Journal of Neuroscience, 2019, 39, 8285-8290.	1.7	21
57	Functional Disruption of Cerebello-thalamo-cortical Networks in Obsessive-Compulsive Disorder. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 438-447.	1.1	19
58	Functional disruption in prefrontal-striatal network in obsessive-compulsive disorder. Psychiatry Research - Neuroimaging, 2020, 300, 111081.	0.9	18
59	Ethnic Differences in Physiological Responses to Fear Conditioned Stimuli. PLoS ONE, 2014, 9, e114977.	1.1	18
60	Correlations between psychological tests and physiological responses during fear conditioning and renewal. Biology of Mood & Anxiety Disorders, 2012, 2, 16.	4.7	16
61	Characterizing Different Strategies for Resolving Approach-Avoidance Conflict. Frontiers in Neuroscience, 2021, 15, 608922.	1.4	16
62	Time-Dependent Recruitment of Prelimbic Prefrontal Circuits for Retrieval of Fear Memory. Frontiers in Behavioral Neuroscience, 2021, 15, 665116.	1.0	12
63	Learning Not to Fear, Faster. Learning and Memory, 2004, 11, 125-126.	0.5	11
64	Neural mechanisms of persistent avoidance in OCD: A novel avoidance devaluation study. NeuroImage: Clinical, 2020, 28, 102404.	1.4	10
65	Prolonged avoidance training exacerbates OCD-like behaviors in a rodent model. Translational Psychiatry, 2020, 10, 212.	2.4	9
66	Translating findings from basic fear research to clinical psychiatry in Puerto Rico. Puerto Rico Health Sciences Journal, 2007, 26, 321-8.	0.2	6
67	Signaling Aversive Events in the Midbrain: Worse than Expected. Neuron, 2009, 61, 655-656.	3.8	5
68	Neuroscience Research and Mentoring in Puerto Rico: What Succeeds in This Environment?. Journal of Neuroscience, 2019, 39, 776-782.	1.7	5
69	A Novel Insular/Orbital-Prelimbic Circuit That Prevents Persistent Avoidance in a Rodent Model of Compulsive Behavior. Biological Psychiatry, 2023, 93, 1000-1009.	0.7	4
70	Modeling Acquisition and Extinction of Conditioned Fear in LA Neurons using Learning Algorithm. Proceedings of the American Control Conference, 2007, , .	0.0	3
71	Less fear, more diversity. PLoS Biology, 2017, 15, e2002079.	2.6	3
72	Learning Not to Fear: A Neural Systems Approach. , 2007, , 60-77.		2

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73	A Cross Species Approach to Understanding DBS Modulation of Fear. Brain Stimulation, 2015, 8, 986-988.	0.7	2
74	The nature and nurture of education. Npj Science of Learning, 2018, 3, 6.	1.5	2
75	Stuck in time without a nucleus: Theoretical comment on Sangha et al. (2005).. Behavioral Neuroscience, 2005, 119, 1155-1157.	0.6	0
76	Editing out fear. Nature, 2010, 463, 36-37.	13.7	0
77	Acquisition of Fear and Extinction in Lateral Amygdala: A Modeling Study. , 2010, , .		0
78	Distinct projections from the prelimbic cortex modulate active avoidance. FASEB Journal, 2020, 34, 1-1.	0.2	0