

# Matthew R Roesch

## List of Publications by Year in descending order

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77  
papers

5,904  
citations

136950

32  
h-index

82547

72  
g-index

81  
all docs

81  
docs citations

81  
times ranked

5720  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dopamine neurons encode the better option in rats deciding between differently delayed or sized rewards. <i>Nature Neuroscience</i> , 2007, 10, 1615-1624.	14.8	538
2	A new perspective on the role of the orbitofrontal cortex in adaptive behaviour. <i>Nature Reviews Neuroscience</i> , 2009, 10, 885-892.	10.2	501
3	Neuronal Activity Related to Reward Value and Motivation in Primate Frontal Cortex. <i>Science</i> , 2004, 304, 307-310.	12.6	483
4	A consensus guide to capturing the ability to inhibit actions and impulsive behaviors in the stop-signal task. <i>ELife</i> , 2019, 8, .	6.0	479
5	Encoding of Time-Discounted Rewards in Orbitofrontal Cortex Is Independent of Value Representation. <i>Neuron</i> , 2006, 51, 509-520.	8.1	280
6	The Orbitofrontal Cortex and Ventral Tegmental Area Are Necessary for Learning from Unexpected Outcomes. <i>Neuron</i> , 2009, 62, 269-280.	8.1	252
7	Expectancy-related changes in firing of dopamine neurons depend on orbitofrontal cortex. <i>Nature Neuroscience</i> , 2011, 14, 1590-1597.	14.8	224
8	From ventral-medial to dorsal-lateral striatum: Neural correlates of reward-guided decision-making. <i>Neurobiology of Learning and Memory</i> , 2015, 117, 51-59.	1.9	177
9	Ventral Striatal Neurons Encode the Value of the Chosen Action in Rats Deciding between Differently Delayed or Sized Rewards. <i>Journal of Neuroscience</i> , 2009, 29, 13365-13376.	3.6	176
10	More Is Less: A Disinhibited Prefrontal Cortex Impairs Cognitive Flexibility. <i>Journal of Neuroscience</i> , 2010, 30, 17102-17110.	3.6	157
11	Surprise! Neural correlates of Pearce's Hall and Rescorla's Wagner coexist within the brain. <i>European Journal of Neuroscience</i> , 2012, 35, 1190-1200.	2.6	157
12	Neural Correlates of Variations in Event Processing during Learning in Basolateral Amygdala. <i>Journal of Neuroscience</i> , 2010, 30, 2464-2471.	3.6	147
13	Neural substrates of cognitive inflexibility after chronic cocaine exposure. <i>Neuropharmacology</i> , 2009, 56, 63-72.	4.1	135
14	Previous Cocaine Exposure Makes Rats Hypersensitive to Both Delay and Reward Magnitude. <i>Journal of Neuroscience</i> , 2007, 27, 245-250.	3.6	134
15	Neural structures underlying set-shifting: Roles of medial prefrontal cortex and anterior cingulate cortex. <i>Behavioural Brain Research</i> , 2013, 250, 91-101.	2.2	134
16	Attention for Learning Signals in Anterior Cingulate Cortex. <i>Journal of Neuroscience</i> , 2011, 31, 18266-18274.	3.6	124
17	Associative Encoding in Anterior Piriform Cortex versus Orbitofrontal Cortex during Odor Discrimination and Reversal Learning. <i>Cerebral Cortex</i> , 2006, 17, 643-652.	2.9	111
18	Neural correlates of stimulus-response and response-outcome associations in dorsolateral versus dorsomedial striatum. <i>Frontiers in Integrative Neuroscience</i> , 2010, 4, 12.	2.1	96

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19	Abnormal associative encoding in orbitofrontal neurons in cocaine-experienced rats during decision-making. <i>European Journal of Neuroscience</i> , 2006, 24, 2643-2653.	2.6	79
20	Neuronal Activity Related to Anticipated Reward in Frontal Cortex. <i>Annals of the New York Academy of Sciences</i> , 2007, 1121, 431-446.	3.8	79
21	Executive Control Signals in Orbitofrontal Cortex during Response Inhibition. <i>Journal of Neuroscience</i> , 2015, 35, 3903-3914.	3.6	70
22	Anterior cingulate cortex is necessary for adaptation of action plans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6196-6204.	7.1	66
23	Neural Correlates of Variations in Event Processing during Learning in Central Nucleus of Amygdala. <i>Neuron</i> , 2010, 68, 991-1001.	8.1	64
24	Interneurons Are Necessary for Coordinated Activity During Reversal Learning in Orbitofrontal Cortex. <i>Biological Psychiatry</i> , 2015, 77, 454-464.	1.3	63
25	All That Glitters â€¦ Dissociating Attention and Outcome Expectancy From Prediction Errors Signals. <i>Journal of Neurophysiology</i> , 2010, 104, 587-595.	1.8	61
26	Cocaine exposure shifts the balance of associative encoding from ventral to dorsolateral striatum. <i>Frontiers in Integrative Neuroscience</i> , 2007, 1, 11.	2.1	58
27	Reward Prediction Error Signaling in Posterior Dorsomedial Striatum Is Action Specific. <i>Journal of Neuroscience</i> , 2012, 32, 10296-10305.	3.6	55
28	Attention-Related Pearce-Kaye-Hall Signals in Basolateral Amygdala Require the Midbrain Dopaminergic System. <i>Biological Psychiatry</i> , 2012, 72, 1012-1019.	1.3	45
29	Should I Stay or Should I Go?: Transformation of Time-Discounted Rewards in Orbitofrontal Cortex and Associated Brain Circuits. <i>Annals of the New York Academy of Sciences</i> , 2007, 1104, 21-34.	3.8	43
30	Neurophysiology of Reward-Guided Behavior: Correlates Related to Predictions, Value, Motivation, Errors, Attention, and Action. <i>Current Topics in Behavioral Neurosciences</i> , 2015, 27, 199-230.	1.7	43
31	Impact of appetitive and aversive outcomes on brain responses: linking the animal and human literatures. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 24.	2.5	41
32	Observation of Reward Delivery to a Conspecific Modulates Dopamine Release in Ventral Striatum. <i>Current Biology</i> , 2014, 24, 2564-2568.	3.9	40
33	Neural correlates of rules and conflict in medial prefrontal cortex during decision and feedback epochs. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 266.	2.0	37
34	Increased Firing to Cues That Predict Low-Value Reward in the Medial Orbitofrontal Cortex. <i>Cerebral Cortex</i> , 2014, 24, 3310-3321.	2.9	36
35	Phasic dopamine release in the rat nucleus accumbens predicts approach and avoidance performance. <i>Nature Communications</i> , 2016, 7, 13154.	12.8	33
36	Response inhibition signals and miscoding of direction in dorsomedial striatum. <i>Frontiers in Integrative Neuroscience</i> , 2012, 6, 69.	2.1	32

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37	Prenatal Nicotine Exposure Impairs Executive Control Signals in Medial Prefrontal Cortex. <i>Neuropsychopharmacology</i> , 2016, 41, 716-725.	5.4	32
38	Willingness to Wait and Altered Encoding of Time-Discounted Reward in the Orbitofrontal Cortex with Normal Aging. <i>Journal of Neuroscience</i> , 2012, 32, 5525-5533.	3.6	31
39	Enduring consequences of perinatal fentanyl exposure in mice. <i>Addiction Biology</i> , 2021, 26, e12895.	2.6	31
40	Ventral Striatum Lesions Enhance Stimulus and Response Encoding in Dorsal Striatum. <i>Biological Psychiatry</i> , 2014, 75, 132-139.	1.3	30
41	Anterior Cingulate Cortex Signals Attention in a Social Paradigm that Manipulates Reward and Shock. <i>Current Biology</i> , 2020, 30, 3724-3735.e2.	3.9	30
42	Neural Correlates of Inflexible Behavior in the Orbitofrontalâ€“Amygdalar Circuit after Cocaine Exposure. <i>Annals of the New York Academy of Sciences</i> , 2007, 1121, 598-609.	3.8	29
43	Impact of expected value on neural activity in rat substantia nigra pars reticulata. <i>European Journal of Neuroscience</i> , 2011, 33, 2308-2317.	2.6	29
44	Separate Populations of Neurons in Ventral Striatum Encode Value and Motivation. <i>PLoS ONE</i> , 2013, 8, e64673.	2.5	29
45	Impact of Size and Delay on Neural Activity in the Rat Limbic Corticostriatal System. <i>Frontiers in Neuroscience</i> , 2011, 5, 130.	2.8	28
46	Single Neurons in Anterior Cingulate Cortex Signal the Need to Change Action During Performance of a Stop-change Task that Induces Response Competition. <i>Cerebral Cortex</i> , 2019, 29, 1020-1031.	2.9	28
47	Manipulating the revision of reward value during the intertrial interval increases sign tracking and dopamine release. <i>PLoS Biology</i> , 2018, 16, e2004015.	5.6	24
48	Cocaine exposure shifts the balance of associative encoding from ventral to dorsolateral striatum. <i>Frontiers in Integrative Neuroscience</i> , 2007, 1, .	2.1	24
49	Dopamine signals related to appetitive and aversive events in paradigms that manipulate reward and avoidability. <i>Brain Research</i> , 2019, 1713, 80-90.	2.2	23
50	Effects of inference on dopaminergic prediction errors depend on orbitofrontal processing.. <i>Behavioral Neuroscience</i> , 2017, 131, 127-134.	1.2	21
51	Previous cocaine self-administration disrupts reward expectancy encoding in ventral striatum. <i>Neuropsychopharmacology</i> , 2018, 43, 2350-2360.	5.4	20
52	Rule encoding in dorsal striatum impacts action selection. <i>European Journal of Neuroscience</i> , 2015, 42, 2555-2567.	2.6	19
53	Normal Aging Alters Learning and Attention-Related Teaching Signals in Basolateral Amygdala. <i>Journal of Neuroscience</i> , 2012, 32, 13137-13144.	3.6	18
54	Prior Cocaine Self-Administration Increases Responseâ€“Outcome Encoding That Is Divorced from Actions Selected in Dorsal Lateral Striatum. <i>Journal of Neuroscience</i> , 2017, 37, 7737-7747.	3.6	15

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55	The impact of drugs of abuse on executive function: characterizing long-term changes in neural correlates following chronic drug exposure and withdrawal in rats. <i>Learning and Memory</i> , 2018, 25, 461-473.	1.3	15
56	Rat behavior and dopamine release are modulated by conspecific distress. <i>ELife</i> , 2018, 7, .	6.0	15
57	Anterior cingulate cortex and adaptive control of brain and behavior. <i>International Review of Neurobiology</i> , 2021, 158, 283-309.	2.0	14
58	In Vitro and In Vivo Sequestration of Phencyclidine by Me <sub>4</sub> Cucurbit[8]uril**. <i>Chemistry - A European Journal</i> , 2021, 27, 3098-3105.	3.3	14
59	Prior cocaine self-administration impairs attention signals in anterior cingulate cortex. <i>Neuropsychopharmacology</i> , 2020, 45, 833-841.	5.4	12
60	Neural Activity in Ventral Medial Prefrontal Cortex Is Modulated More Before Approach Than Avoidance During Reinforced and Extinction Trial Blocks. <i>Journal of Neuroscience</i> , 2018, 38, 4584-4597.	3.6	11
61	Basolateral amygdala encodes upcoming errors but not response conflict. <i>European Journal of Neuroscience</i> , 2012, 35, 952-959.	2.6	10
62	Neural Signals in Red Nucleus during Reactive and Proactive Adjustments in Behavior. <i>Journal of Neuroscience</i> , 2020, 40, 4715-4726.	3.6	10
63	Altered Basolateral Amygdala Encoding in an Animal Model of Schizophrenia. <i>Journal of Neuroscience</i> , 2015, 35, 6394-6400.	3.6	9
64	Prior Cocaine Exposure Increases Firing to Immediate Reward While Attenuating Cue and Context Signals Related to Reward Value in the Insula. <i>Journal of Neuroscience</i> , 2021, 41, 4667-4677.	3.6	8
65	Prediction errors and valence: From single units to multidimensional encoding in the amygdala. <i>Behavioural Brain Research</i> , 2021, 404, 113176.	2.2	8
66	Firing of Putative Dopamine Neurons in Ventral Tegmental Area Is Modulated by Probability of Success during Performance of a Stop-Change Task. <i>ENeuro</i> , 2018, 5, ENEURO.0007-18.2018.	1.9	8
67	Impacts of inter-trial interval duration on a computational model of sign-tracking vs. goal-tracking behaviour. <i>Psychopharmacology</i> , 2019, 236, 2373-2388.	3.1	6
68	The ever-changing OFC landscape: What neural signals in OFC can tell us about inhibitory control.. <i>Behavioral Neuroscience</i> , 2021, 135, 129-137.	1.2	6
69	In Vitro and In Vivo Sequestration of Methamphetamine by a Sulfated Acyclic CB <sub>1</sub> Receptor. <i>Chemistry - A European Journal</i> , 2021, 27, 17476-17486.	3.3	5
70	Reactive and Proactive Adaptation of Cognitive and Motor Neural Signals during Performance of a Stop-Change Task. <i>Brain Sciences</i> , 2021, 11, 617.	2.3	4
71	Medial prefrontal cortex lesions disrupt prepotent action selection signals in dorsomedial striatum. <i>Current Biology</i> , 2022, 32, 3276-3287.e3.	3.9	4
72	Rats delay gratification during a time-based diminishing returns task.. <i>Journal of Experimental Psychology Animal Learning and Cognition</i> , 2021, 47, 420-428.	0.5	3

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73	You won't regret reading this. <i>Nature Neuroscience</i> , 2014, 17, 892-893.	14.8	2
74	Overexpressing Histone Deacetylase 5 in Rat Dorsal Striatum Alters Reward-Guided Decision-Making and Associated Neural Encoding. <i>Journal of Neuroscience</i> , 2021, 41, 10080-10090.	3.6	2
75	Minimal cross-trial generalization in learning the representation of an odor-guided choice task. <i>PLoS Computational Biology</i> , 2022, 18, e1009897.	3.2	2
76	Anthracene-Walled Acyclic CB[n] Receptors: <i>in vitro</i> and <i>in vivo</i> Binding Properties toward Drugs of Abuse. <i>ChemMedChem</i> , 2022, 17, .	3.2	2
77	Insula lesions reduce stimulus-driven control of behavior during odor-guided decision-making and autoshaping. <i>Brain Research</i> , 2022, 1785, 147885.	2.2	2