

Christelle Baunez

List of Publications by Year in descending order

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66
papers

4,577
citations

147801

31
h-index

128289

60
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78
all docs

78
docs citations

78
times ranked

3922
citing authors

#	ARTICLE	IF	CITATIONS
1	Stop-Signal Reaction-Time Task Performance: Role of Prefrontal Cortex and Subthalamic Nucleus. <i>Cerebral Cortex</i> , 2008, 18, 178-188.	2.9	344
2	Chronic dopaminergic stimulation in Parkinson's disease: from dyskinesias to impulse control disorders. <i>Lancet Neurology</i> , The, 2009, 8, 1140-1149.	10.2	337
3	Deep brain stimulation: from neurology to psychiatry?. <i>Trends in Neurosciences</i> , 2010, 33, 474-484.	8.6	262
4	Bilateral Lesions of the Subthalamic Nucleus Induce Multiple Deficits in an Attentional Task in Rats. <i>European Journal of Neuroscience</i> , 1997, 9, 2086-2099.	2.6	233
5	Addiction in Parkinson's disease: Impact of subthalamic nucleus deep brain stimulation. <i>Movement Disorders</i> , 2005, 20, 1052-1055.	3.9	223
6	Is there an inhibitory-response-control system in the rat? Evidence from anatomical and pharmacological studies of behavioral inhibition. <i>Neuroscience and Biobehavioral Reviews</i> , 2010, 34, 50-72.	6.1	222
7	The subthalamic nucleus exerts opposite control on cocaine and 'natural' rewards. <i>Nature Neuroscience</i> , 2005, 8, 484-489.	14.8	210
8	Reducing the desire for cocaine with subthalamic nucleus deep brain stimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1196-1200.	7.1	181
9	Chronic But Not Acute Treatment with a Metabotropic Glutamate 5 Receptor Antagonist Reverses the Akinetic Deficits in a Rat Model of Parkinsonism. <i>Journal of Neuroscience</i> , 2002, 22, 5669-5678.	3.6	174
10	Effects of dopamine depletion of the dorsal striatum and further interaction with subthalamic nucleus lesions in an attentional task in the rat. <i>Neuroscience</i> , 1999, 92, 1343-1356.	2.3	149
11	Enhanced Food-Related Motivation after Bilateral Lesions of the Subthalamic Nucleus. <i>Journal of Neuroscience</i> , 2002, 22, 562-568.	3.6	149
12	Parkinson's <sc>D</sc>isease, the <sc>S</sc>ubthalamic <sc>N</sc>ucleus, <sc>I</sc>nhibition, and <sc>I</sc>mpulsivity. <i>Movement Disorders</i> , 2015, 30, 128-140.	3.9	147
13	Deep brain stimulation in neurological diseases and experimental models: From molecule to complex behavior. <i>Progress in Neurobiology</i> , 2009, 89, 79-123.	5.7	135
14	Lesions of the medial and lateral striatum in the rat produce differential deficits in attentional performance.. <i>Behavioral Neuroscience</i> , 2001, 115, 799-811.	1.2	116
15	Effects of STN lesions on simple vs choice reaction time tasks in the rat: preserved motor readiness, but impaired response selection. <i>European Journal of Neuroscience</i> , 2001, 13, 1609-1616.	2.6	106
16	Functional Disconnection of the Medial Prefrontal Cortex and Subthalamic Nucleus in Attentional Performance: Evidence for Corticosubthalamic Interaction. <i>Journal of Neuroscience</i> , 2003, 23, 5477-5485.	3.6	103
17	Lesions to the subthalamic nucleus decrease impulsive choice but impair autoshaping in rats: the importance of the basal ganglia in Pavlovian conditioning and impulse control. <i>European Journal of Neuroscience</i> , 2005, 21, 3107-3116.	2.6	95
18	Beyond the Reward Pathway: Coding Reward Magnitude and Error in the Rat Subthalamic Nucleus. <i>Journal of Neurophysiology</i> , 2009, 102, 2526-2537.	1.8	89

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19	High frequency stimulation of the subthalamic nucleus has beneficial antiparkinsonian effects on motor functions in rats, but less efficiency in a choice reaction time task. <i>European Journal of Neuroscience</i> , 2003, 18, 951-956.	2.6	87
20	Cocaine and Amphetamine Depress Striatal GABAergic Synaptic Transmission through D2 Dopamine Receptors. <i>Neuropsychopharmacology</i> , 2002, 26, 164-175.	5.4	78
21	Reward-related neuronal activity in the subthalamic nucleus of the monkey. <i>NeuroReport</i> , 2005, 16, 1241-1244.	1.2	77
22	Effects of transient inactivation of the subthalamic nucleus by local muscimol and APV infusions on performance on the five-choice serial reaction time task in rats. <i>Psychopharmacology</i> , 1999, 141, 57-65.	3.1	73
23	Bilateral high-frequency stimulation of the subthalamic nucleus on attentional performance: transient deleterious effects and enhanced motivation in both intact and parkinsonian rats. <i>European Journal of Neuroscience</i> , 2007, 25, 1187-1194.	2.6	70
24	Alcohol Preference Influences the Subthalamic Nucleus Control on Motivation for Alcohol in Rats. <i>Neuropsychopharmacology</i> , 2008, 33, 634-642.	5.4	60
25	The human subthalamic nucleus encodes the subjective value of reward and the cost of effort during decision-making. <i>Brain</i> , 2016, 139, 1830-1843.	7.6	57
26	Deep brain stimulation for addiction: why the subthalamic nucleus should be favored. <i>Current Opinion in Neurobiology</i> , 2013, 23, 713-720.	4.2	56
27	Different populations of subthalamic neurons encode cocaine vs. sucrose reward and predict future error. <i>Journal of Neurophysiology</i> , 2013, 110, 1497-1510.	1.8	43
28	High-Frequency Stimulation of the Subthalamic Nucleus Blocks Compulsive-Like Re-Escalation of Heroin Taking in Rats. <i>Neuropsychopharmacology</i> , 2017, 42, 1850-1859.	5.4	43
29	Frontal Cortex-Like Functions of the Subthalamic Nucleus. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 83.	2.5	42
30	Functional interaction between mGlu 5 and NMDA receptors in a rat model of Parkinson's disease. <i>Psychopharmacology</i> , 2005, 179, 117-127.	3.1	39
31	The Dopamine Agonist Piribedil with L-DOPA Improves Attentional Dysfunction: Relevance for Parkinson's Disease. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 319, 914-923.	2.5	37
32	Subthalamic nucleus high frequency stimulation prevents and reverses escalated cocaine use. <i>Molecular Psychiatry</i> , 2018, 23, 2266-2276.	7.9	35
33	Chronic D _{2/3} agonist ropinirole treatment increases preference for uncertainty in rats regardless of baseline choice patterns. <i>European Journal of Neuroscience</i> , 2017, 45, 159-166.	2.6	34
34	Social modulation of drug use and drug addiction. <i>Neuropharmacology</i> , 2019, 159, 107545.	4.1	32
35	Differential effects of prolonged high frequency stimulation and of excitotoxic lesion of the subthalamic nucleus on dopamine denervation-induced cellular defects in the rat striatum and globus pallidus. <i>European Journal of Neuroscience</i> , 2004, 20, 3331-3341.	2.6	29
36	Deep-Brain Stimulation of the Subthalamic Nucleus Selectively Decreases Risky Choice in Risk-Preferring Rats. <i>ENeuro</i> , 2017, 4, ENEURO.0094-17.2017.	1.9	28

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37	The Good and Bad Differentially Encoded within the Subthalamic Nucleus in Rats. <i>ENeuro</i> , 2015, 2, ENEURO.0014-15.2015.	1.9	27
38	Targeting the subthalamic nucleus in a preclinical model of alcohol use disorder. <i>Psychopharmacology</i> , 2017, 234, 2127-2137.	3.1	27
39	Revealing a novel nociceptive network that links the subthalamic nucleus to pain processing. <i>ELife</i> , 2018, 7, .	6.0	27
40	Cognitive and limbic effects of deep brain stimulation in preclinical studies. <i>Frontiers in Bioscience - Landmark</i> , 2009, Volume, 1891.	3.0	26
41	Linking reward processing to behavioral output: motor and motivational integration in the primate subthalamic nucleus. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 175.	2.1	25
42	The subthalamic nucleus keeps you high on emotion: behavioral consequences of its inactivation. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 414.	2.0	25
43	Evidence for Functional Differences between Entopeduncular Nucleus and Substantia Nigra: Effects of APV (DL-2-amino-5-phosphonovaleric acid) Microinfusion on Reaction Time Performance in the Rat. <i>European Journal of Neuroscience</i> , 1996, 8, 1972-1982.	2.6	23
44	Modulation of neuronal activity by reward identity in the monkey subthalamic nucleus. <i>European Journal of Neuroscience</i> , 2015, 42, 1705-1717.	2.6	23
45	Subthalamic low-frequency oscillations predict vulnerability to cocaine addiction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	23
46	Effects of GPi and STN inactivation on physiological, motor, cognitive and motivational processes in animal models of Parkinson's disease. <i>Progress in Brain Research</i> , 2010, 183, 235-258.	1.4	22
47	Subthalamic nucleus high-frequency stimulation modulates neuronal reactivity to cocaine within the reward circuit. <i>Neurobiology of Disease</i> , 2015, 80, 54-62.	4.4	18
48	Neurons in the Monkey's Subthalamic Nucleus Differentially Encode Motivation and Effort. <i>Journal of Neuroscience</i> , 2022, 42, 2539-2551.	3.6	15
49	Subthalamic nucleus mediates the modulation on cocaine self-administration induced by ultrasonic vocalization playback in rats. <i>Addiction Biology</i> , 2020, 25, e12710.	2.6	13
50	Posttraumatic Stress Disorder is associated with altered reward mechanisms during the anticipation and the outcome of monetary incentive cues. <i>NeuroImage: Clinical</i> , 2020, 25, 102073.	2.7	13
51	Increased motor impulsivity in a rat gambling task during chronic ropinirole treatment: potentiation by win-paired audiovisual cues. <i>Psychopharmacology</i> , 2019, 236, 1901-1915.	3.1	12
52	Effects of subthalamic nucleus stimulation and levodopa on decision-making in Parkinson's disease. <i>Movement Disorders</i> , 2019, 34, 377-385.	3.9	10
53	A few examples of the contribution of animal research in rodents for clinical application of deep brain stimulation. <i>Progress in Brain Research</i> , 2011, 194, 105-116.	1.4	9
54	Evidence for a vocal signature in the rat and its reinforcing effects: a key role for the subthalamic nucleus. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20212260.	2.6	7

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55	Decreased risk-taking and loss-chasing after subthalamic nucleus lesion in rats. <i>European Journal of Neuroscience</i> , 2021, 53, 2362-2375.	2.6	5
56	Repeated cocaine exposure prior to fear conditioning induces persistency of PTSD-like symptoms and enhancement of hippocampal and amygdala cell density in male rats. <i>Brain Structure and Function</i> , 2021, 226, 2219-2241.	2.3	4
57	Repeated ethanol exposure following avoidance conditioning impairs avoidance extinction and modifies conditioning-associated prefrontal dendritic changes in a mouse model of post-traumatic stress disorder. <i>European Journal of Neuroscience</i> , 2021, 54, 7710-7732.	2.6	4
58	Harnessing Circuits for the Treatment of Addictive Disorders. , 2019, , 271-285.		1
59	Inactivating the Subthalamic Nucleus in the Rat Induces Various Cognitive Deficits and Motivational Exacerbation. <i>Advances in Behavioral Biology</i> , 2002, , 591-602.	0.2	1
60	The Subthalamic Nucleus and Reward-Related Processes. <i>Innovations in Cognitive Neuroscience</i> , 2016, , 319-337.	0.3	1
61	Surgical Strategies for Parkinson's Disease Based on Animal Model Data: GPi and STN Inactivation on Various Aspects of Behavior (Motor, Cognitive and Motivational Processes). , 2009, , 1-21.		0
62	45. The Subthalamic Nucleus at the Nexus of Decision-Making Processes. <i>Biological Psychiatry</i> , 2017, 81, S19.	1.3	0
63	Ablative Neurotherapeutics and Deep Brain Stimulation in Animal Models of Psychiatric Disorders. , 2016, , 187-207.		0
64	Subthalamic stimulation breaks the balance between distal and axial signs in Parkinson's disease. <i>Scientific Reports</i> , 2021, 11, 21810.	3.3	0
65	The Ventral/Dorsal Divide: To Integrate or Separate. , 2005, , 437-456.		0
66	Editorial Special Issue on "Nature vs nurture in addiction research". <i>Psychopharmacology</i> , 2022, 239, 989-991.	3.1	0