Christelle Baunez

List of Publications by Year
in descending order

66 papers	4,577 citations	147801 31 h-index	128289 60 g-index
78 all docs	78 docs citations	78 times ranked	3922 citing authors

#	Article	IF	Citations
1	Neurons in the Monkey's Subthalamic Nucleus Differentially Encode Motivation and Effort. Journal of Neuroscience, 2022, 42, 2539-2551.	3.6	15
2	Editorial Special Issue on â€œNature vs nurture in addiction researchâ€• Psychopharmacology, 2022, 239, 989-991.	3.1	0
3	Decreased riskâ€taking and lossâ€chasing after subthalamic nucleus lesion in rats. European Journal of Neuroscience, 2021, 53, 2362-2375.	2.6	5
4	Subthalamic low-frequency oscillations predict vulnerability to cocaine addiction. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	23
5	Repeated cocaine exposure prior to fear conditioning induces persistency of PTSD-like symptoms and enhancement of hippocampal and amygdala cell density in male rats. Brain Structure and Function, 2021, 226, 2219-2241.	2.3	4
6	Repeated ethanol exposure following avoidance conditioning impairs avoidance extinction and modifies conditioningâ€associated prefrontal dendritic changes in a mouse model of postâ€traumatic stress disorder. European Journal of Neuroscience, 2021, 54, 7710-7732.	2.6	4
7	Subthalamic stimulation breaks the balance between distal and axial signs in Parkinsonâ€™s disease. Scientific Reports, 2021, 11, 21810.	3.3	0
8	Evidence for a vocal signature in the rat and its reinforcing effects: a key role for the subthalamic nucleus. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20212260.	2.6	7
9	Subthalamic nucleus mediates the modulation on cocaine selfâ€administration induced by ultrasonic vocalization playback in rats. Addiction Biology, 2020, 25, e12710.	2.6	13
10	Posttraumatic Stress Disorder is associated with altered reward mechanisms during the anticipation and the outcome of monetary incentive cues. NeuroImage: Clinical, 2020, 25, 102073.	2.7	13
11	Effects of subthalamic nucleus stimulation and levodopa on decisionâ€making in Parkinson's disease. Movement Disorders, 2019, 34, 377-385.	3.9	10
12	Social modulation of drug use and drug addiction. Neuropharmacology, 2019, 159, 107545.	4.1	32
13	Harnessing Circuits for the Treatment of Addictive Disorders. , 2019, , 271-285.		1
14	Increased motor impulsivity in a rat gambling task during chronic ropinirole treatment: potentiation by win-paired audiovisual cues. Psychopharmacology, 2019, 236, 1901-1915.	3.1	12
15	Revealing a novel nociceptive network that links the subthalamic nucleus to pain processing. ELife, 2018, 7, .	6.0	27
16	Subthalamic nucleus high frequency stimulation prevents and reverses escalated cocaine use. Molecular Psychiatry, 2018, 23, 2266-2276.	7.9	35
17	Targeting the subthalamic nucleus in a preclinical model of alcohol use disorder. Psychopharmacology, 2017, 234, 2127-2137.	3.1	27
18	45. The Subthalamic Nucleus at the Nexus of Decision-Making Processes. Biological Psychiatry, 2017, 81, S19.	1.3	0

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19	High-Frequency Stimulation of the Subthalamic Nucleus Blocks Compulsive-Like Re-Escalation of Heroin Taking in Rats. Neuropsychopharmacology, 2017, 42, 1850-1859.	5.4	43
20	Chronic D_{2/3} agonist ropinirole treatment increases preference for uncertainty in rats regardless of baseline choice patterns. European Journal of Neuroscience, 2017, 45, 159-166.	2.6	34
21	Deep-Brain Stimulation of the Subthalamic Nucleus Selectively Decreases Risky Choice in Risk-Preferring Rats. ENeuro, 2017, 4, ENEURO.0094-17.2017.	1.9	28
22	The human subthalamic nucleus encodes the subjective value of reward and the cost of effort during decision-making. Brain, 2016, 139, 1830-1843.	7.6	57
23	Ablative Neurotherapeutics and Deep Brain Stimulation in Animal Models of Psychiatric Disorders. , 2016, , 187-207.		0
24	The Subthalamic Nucleus and Reward-Related Processes. Innovations in Cognitive Neuroscience, 2016, , 319-337.	0.3	1
25	The Good and Bad Differentially Encoded within the Subthalamic Nucleus in Rats. ENeuro, 2015, 2, ENEURO.0014-15.2015.	1.9	27
26	Modulation of neuronal activity by reward identity in the monkey subthalamic nucleus. European Journal of Neuroscience, 2015, 42, 1705-1717.	2.6	23
27	Subthalamic nucleus high-frequency stimulation modulates neuronal reactivity to cocaine within the reward circuit. Neurobiology of Disease, 2015, 80, 54-62.	4.4	18
28	Parkinson's <scp>D</scp>isease, the <scp>S</scp>ubthalamic <scp>N</scp>ucleus, <scp>I</scp>nhibition, and <scp>I</scp>mpulsivity. Movement Disorders, 2015, 30, 128-140.	3.9	147
29	The subthalamic nucleus keeps you high on emotion: behavioral consequences of its inactivation. Frontiers in Behavioral Neuroscience, 2014, 8, 414.	2.0	25
30	Deep brain stimulation for addiction: why the subthalamic nucleus should be favored. Current Opinion in Neurobiology, 2013, 23, 713-720.	4.2	56
31	Different populations of subthalamic neurons encode cocaine vs. sucrose reward and predict future error. Journal of Neurophysiology, 2013, 110, 1497-1510.	1.8	43
32	Linking reward processing to behavioral output: motor and motivational integration in the primate subthalamic nucleus. Frontiers in Computational Neuroscience, 2013, 7, 175.	2.1	25
33	Frontal Cortex-Like Functions of the Subthalamic Nucleus. Frontiers in Systems Neuroscience, 2011, 5, 83.	2.5	42
34	A few examples of the contribution of animal research in rodents for clinical application of deep brain stimulation. Progress in Brain Research, 2011, 194, 105-116.	1.4	9
35	Is there an inhibitory-response-control system in the rat? Evidence from anatomical and pharmacological studies of behavioral inhibition. Neuroscience and Biobehavioral Reviews, 2010, 34, 50-72.	6.1	222
36	Deep brain stimulation: from neurology to psychiatry?. Trends in Neurosciences, 2010, 33, 474-484.	8.6	262

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37	Effects of GPi and STN inactivation on physiological, motor, cognitive and motivational processes in animal models of Parkinsonâ€™s disease. Progress in Brain Research, 2010, 183, 235-258.	1.4	22
38	Reducing the desire for cocaine with subthalamic nucleus deep brain stimulation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1196-1200.	7.1	181
39	Cognitive and limbic effects of deep brain stimulation in preclinical studies. Frontiers in Bioscience - Landmark, 2009, Volume, 1891.	3.0	26
40	Beyond the Reward Pathway: Coding Reward Magnitude and Error in the Rat Subthalamic Nucleus. Journal of Neurophysiology, 2009, 102, 2526-2537.	1.8	89
41	Chronic dopaminergic stimulation in Parkinson's disease: from dyskinesias to impulse control disorders. Lancet Neurology, The, 2009, 8, 1140-1149.	10.2	337
42	Deep brain stimulation in neurological diseases and experimental models: From molecule to complex behavior. Progress in Neurobiology, 2009, 89, 79-123.	5.7	135
43	Surgical Strategies for Parkinsonâ€™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
44	Stop-Signal Reaction-Time Task Performance: Role of Prefrontal Cortex and Subthalamic Nucleus. Cerebral Cortex, 2008, 18, 178-188.	2.9	344
45	Alcohol Preference Influences the Subthalamic Nucleus Control on Motivation for Alcohol in Rats. Neuropsychopharmacology, 2008, 33, 634-642.	5.4	60
46	Bilateral high-frequency stimulation of the subthalamic nucleus on attentional performance: transient deleterious effects and enhanced motivation in both intact and parkinsonian rats. European Journal of Neuroscience, 2007, 25, 1187-1194.	2.6	70
47	The Dopamine Agonist Piribedil with L-DOPA Improves Attentional Dysfunction: Relevance for Parkinson's Disease. Journal of Pharmacology and Experimental Therapeutics, 2006, 319, 914-923.	2.5	37
48	Reward-related neuronal activity in the subthalamic nucleus of the monkey. NeuroReport, 2005, 16, 1241-1244.	1.2	77
49	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. European Journal of Neuroscience, 2005, 21, 3107-3116.	2.6	95
50	The subthalamic nucleus exerts opposite control on cocaine and 'natural' rewards. Nature Neuroscience, 2005, 8, 484-489.	14.8	210
51	Addiction in Parkinson's disease: Impact of subthalamic nucleus deep brain stimulation. Movement Disorders, 2005, 20, 1052-1055.	3.9	223
52	Functional interaction between mGlu 5 and NMDA receptors in a rat model of Parkinson?s disease. Psychopharmacology, 2005, 179, 117-127.	3.1	39
53	The Ventral/Dorsal Divide: To Integrate or Separate. , 2005, , 437-456.		0
54	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. European Journal of Neuroscience, 2004, 20, 3331-3341.	2.6	29

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55	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. European Journal of Neuroscience, 2003, 18, 951-956.	2.6	87
56	Functional Disconnection of the Medial Prefrontal Cortex and Subthalamic Nucleus in Attentional Performance: Evidence for Corticosubthalamic Interaction. Journal of Neuroscience, 2003, 23, 5477-5485.	3.6	103
57	Enhanced Food-Related Motivation after Bilateral Lesions of the Subthalamic Nucleus. Journal of Neuroscience, 2002, 22, 562-568.	3.6	149
58	Chronic But Not Acute Treatment with a Metabotropic Glutamate 5 Receptor Antagonist Reverses the Akinetic Deficits in a Rat Model of Parkinsonism. Journal of Neuroscience, 2002, 22, 5669-5678.	3.6	174
59	Cocaine and Amphetamine Depress Striatal GABAergic Synaptic Transmission through D2 Dopamine Receptors. Neuropsychopharmacology, 2002, 26, 164-175.	5.4	78
60	Inactivating the Subthalamic Nucleus in the Rat Induces Various Cognitive Deficits and Motivational Exacerbation. Advances in Behavioral Biology, 2002, , 591-602.	0.2	1
61	Effects of STN lesions on simple vs choice reaction time tasks in the rat: preserved motor readiness, but impaired response selection. European Journal of Neuroscience, 2001, 13, 1609-1616.	2.6	106
62	Lesions of the medial and lateral striatum in the rat produce differential deficits in attentional performance.. Behavioral Neuroscience, 2001, 115, 799-811.	1.2	116
63	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. Psychopharmacology, 1999, 141, 57-65.	3.1	73
64	Effects of dopamine depletion of the dorsal striatum and further interaction with subthalamic nucleus lesions in an attentional task in the rat. Neuroscience, 1999, 92, 1343-1356.	2.3	149
65	Bilateral Lesions of the Subthalamic Nucleus Induce Multiple Deficits in an Attentional Task in Rats. European Journal of Neuroscience, 1997, 9, 2086-2099.	2.6	233
66	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. European Journal of Neuroscience, 1996, 8, 1972-1982.	2.6	23