

Nicola Simola

List of Publications by Citations

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89
papers

2,577
citations

30
h-index

48
g-index

105
ext. papers

3,069
ext. citations

4.6
avg, IF

5.3
L-index

#	Paper	IF	Citations
89	Pathophysiology of L-dopa-induced motor and non-motor complications in Parkinson's disease. <i>Progress in Neurobiology</i> , 2015 , 132, 96-168	10.9	282
88	The 6-hydroxydopamine model of Parkinson's disease. <i>Neurotoxicity Research</i> , 2007 , 11, 151-67	4.3	249
87	Amphetamine-related drugs neurotoxicity in humans and in experimental animals: Main mechanisms. <i>Progress in Neurobiology</i> , 2017 , 155, 149-170	10.9	135
86	Pharmacological characterization of 50-kHz ultrasonic vocalizations in rats: comparison of the effects of different psychoactive drugs and relevance in drug-induced reward. <i>Neuropharmacology</i> , 2012 , 63, 224-34	5.5	80
85	New therapies for the treatment of Parkinson's disease: adenosine A2A receptor antagonists. <i>Life Sciences</i> , 2005 , 77, 3259-67	6.8	72
84	Anxiolytic-like effects of N,N-dialkyl-2-phenylindol-3-ylglyoxylamides by modulation of translocator protein promoting neurosteroid biosynthesis. <i>Journal of Medicinal Chemistry</i> , 2008 , 51, 5798-806	8.3	70
83	Characterization of the antiparkinsonian effects of the new adenosine A2A receptor antagonist ST1535: acute and subchronic studies in rats. <i>European Journal of Pharmacology</i> , 2007 , 566, 94-102	5.3	68
82	Blockade of adenosine A2A receptors antagonizes parkinsonian tremor in the rat tacrine model by an action on specific striatal regions. <i>Experimental Neurology</i> , 2004 , 189, 182-8	5.7	67
81	L-DOPA disrupts adenosine A(2A)-cannabinoid CB(1)-dopamine D(2) receptor heteromer cross-talk in the striatum of hemiparkinsonian rats: biochemical and behavioral studies. <i>Experimental Neurology</i> , 2014 , 253, 180-91	5.7	64
80	Adenosine A2A receptor antagonists and Parkinson's disease: state of the art and future directions. <i>Current Pharmaceutical Design</i> , 2008 , 14, 1475-89	3.3	59
79	Assessment of symptomatic and neuroprotective efficacy of Mucuna pruriens seed extract in rodent model of Parkinson's disease. <i>Neurotoxicity Research</i> , 2009 , 15, 111-22	4.3	57
78	Rat Ultrasonic Vocalizations and Behavioral Neuropharmacology: From the Screening of Drugs to the Study of Disease. <i>Current Neuropharmacology</i> , 2015 , 13, 164-79	7.6	56
77	Strain dependence of adolescent Cannabis influence on heroin reward and mesolimbic dopamine transmission in adult Lewis and Fischer 344 rats. <i>Addiction Biology</i> , 2015 , 20, 132-42	4.6	49
76	Direct and long-lasting effects elicited by repeated drug administration on 50-kHz ultrasonic vocalizations are regulated differently: implications for the study of the affective properties of drugs of abuse. <i>International Journal of Neuropsychopharmacology</i> , 2014 , 17, 429-41	5.8	49
75	Striatal neuroprotection with methylene blue. <i>Neuroscience</i> , 2009 , 163, 877-89	3.9	48
74	Gut Microbiota and Metabolome Alterations Associated with Parkinson's Disease. <i>MSystems</i> , 2020 , 5,	7.6	46
73	Dyskinesia in Parkinson's disease: mechanisms and current non-pharmacological interventions. <i>Journal of Neurochemistry</i> , 2014 , 130, 472-89	6	44

72	Influence of acute caffeine on 50-kHz ultrasonic vocalizations in male adult rats and relevance to caffeine-mediated psychopharmacological effects. <i>International Journal of Neuropsychopharmacology</i> , 2010 , 13, 123-32	5.8	42
71	Ultrasonic vocalizations as a tool in studying emotional states in rodent models of social behavior and brain disease. <i>Neuropharmacology</i> , 2019 , 159, 107420	5.5	42
70	Perinatal asphyxia: current status and approaches towards neuroprotective strategies, with focus on sentinel proteins. <i>Neurotoxicity Research</i> , 2011 , 19, 603-27	4.3	41
69	Acute perinatal asphyxia impairs non-spatial memory and alters motor coordination in adult male rats. <i>Experimental Brain Research</i> , 2008 , 185, 595-601	2.3	40
68	A new ethyladenine antagonist of adenosine A(2A) receptors: behavioral and biochemical characterization as an antiparkinsonian drug. <i>Neuropharmacology</i> , 2010 , 58, 613-23	5.5	38
67	Behavioral and biochemical correlates of the dyskinetic potential of dopaminergic agonists in the 6-OHDA lesioned rat. <i>Synapse</i> , 2008 , 62, 524-33	2.4	38
66	Nicotinamide prevents the long-term effects of perinatal asphyxia on apoptosis, non-spatial working memory and anxiety in rats. <i>Experimental Brain Research</i> , 2010 , 202, 1-14	2.3	37
65	MDMA administration during adolescence exacerbates MPTP-induced cognitive impairment and neuroinflammation in the hippocampus and prefrontal cortex. <i>Psychopharmacology</i> , 2014 , 231, 4007-18	4.7	35
64	Microglial and astroglial activation by 3,4-methylenedioxymethamphetamine (MDMA) in mice depends on S(+) enantiomer and is associated with an increase in body temperature and motility. <i>Journal of Neurochemistry</i> , 2013 , 124, 69-78	6	35
63	Repeated amphetamine administration and long-term effects on 50-kHz ultrasonic vocalizations: possible relevance to the motivational and dopamine-stimulating properties of the drug. <i>European Neuropsychopharmacology</i> , 2015 , 25, 343-55	1.2	34
62	Anxiolytic properties of a 2-phenylindolglyoxylamide TSPO ligand: Stimulation of in vitro neurosteroid production affecting GABAA receptor activity. <i>Psychoneuroendocrinology</i> , 2011 , 36, 463-72 ⁵		34
61	Diabetes, a Contemporary Risk for Parkinson's Disease: Epidemiological and Cellular Evidences. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 302	5.3	31
60	Antidyskinetic effect of A2A and 5HT1A/1B receptor ligands in two animal models of Parkinson's disease. <i>Movement Disorders</i> , 2016 , 31, 501-11	7	30
59	Perinatal asphyxia: CNS development and deficits with delayed onset. <i>Frontiers in Neuroscience</i> , 2014 , 8, 47	5.1	30
58	Sensitization to caffeine and cross-sensitization to amphetamine: influence of individual response to caffeine. <i>Behavioural Brain Research</i> , 2006 , 172, 72-9	3.4	29
57	Involvement of Glutamate NMDA Receptors in the Acute, Long-Term, and Conditioned Effects of Amphetamine on Rat 50 kHz Ultrasonic Vocalizations. <i>International Journal of Neuropsychopharmacology</i> , 2015 , 18, pyv057	5.8	28
56	Rat 50-kHz ultrasonic vocalizations as a tool in studying neurochemical mechanisms that regulate positive emotional states. <i>Journal of Neuroscience Methods</i> , 2018 , 310, 33-44	3	25
55	Dual target strategy: combining distinct non-dopaminergic treatments reduces neuronal cell loss and synergistically modulates L-DOPA-induced rotational behavior in a rodent model of Parkinson's disease. <i>Journal of Neurochemistry</i> , 2015 , 134, 740-7	6	25

54	Dopamine and adenosine receptor interaction as basis for the treatment of Parkinson's disease. <i>Journal of the Neurological Sciences</i> , 2006 , 248, 48-52	3.2	24
53	Role of adenosine A receptors in motor control: relevance to Parkinson's disease and dyskinesia. <i>Journal of Neural Transmission</i> , 2018 , 125, 1273-1286	4.3	23
52	Activation of adenosine A ₁ receptors suppresses the emission of pro-social and drug-stimulated 50-kHz ultrasonic vocalizations in rats: possible relevance to reward and motivation. <i>Psychopharmacology</i> , 2016 , 233, 507-19	4.7	22
51	Increase of dopamine D ₂ (High) receptors in the striatum of rats sensitized to caffeine motor effects. <i>Synapse</i> , 2008 , 62, 394-7	2.4	22
50	Potentialiation of amphetamine-mediated responses in caffeine-sensitized rats involves modifications in A _{2A} receptors and zif-268 mRNAs in striatal neurons. <i>Journal of Neurochemistry</i> , 2006 , 98, 1078-89	6	21
49	Neuronal and peripheral damages induced by synthetic psychoactive substances: an update of recent findings from human and animal studies. <i>Neural Regeneration Research</i> , 2020 , 15, 802-816	4.5	21
48	Progression and Persistence of Neurotoxicity Induced by MDMA in Dopaminergic Regions of the Mouse Brain and Association with Noradrenergic, GABAergic, and Serotonergic Damage. <i>Neurotoxicity Research</i> , 2017 , 32, 563-574	4.3	19
47	Emission of categorized 50-kHz ultrasonic vocalizations in rats repeatedly treated with amphetamine or apomorphine: Possible relevance to drug-induced modifications in the emotional state. <i>Behavioural Brain Research</i> , 2018 , 347, 88-98	3.4	18
46	Methylxanthines and drug dependence: a focus on interactions with substances of abuse. <i>Handbook of Experimental Pharmacology</i> , 2011 , 483-507	3.2	18
45	Involvement of globus pallidus in the antiparkinsonian effects of adenosine A _{2A} receptor antagonists. <i>Experimental Neurology</i> , 2006 , 202, 255-7	5.7	17
44	Modulation of Rat 50-kHz Ultrasonic Vocalizations by Glucocorticoid Signaling: Possible Relevance to Reward and Motivation. <i>International Journal of Neuropsychopharmacology</i> , 2018 , 21, 73-83	5.8	17
43	Dopaminergic neurodegeneration in a rat model of long-term hyperglycemia: preferential degeneration of the nigrostriatal motor pathway. <i>Neurobiology of Aging</i> , 2018 , 69, 117-128	5.6	17
42	Performance of movement in hemiparkinsonian rats influences the modifications induced by dopamine agonists in striatal efferent dynorphinergic neurons. <i>Experimental Neurology</i> , 2013 , 247, 663-727	5.7	16
41	Widespread reduction of dopamine cell bodies and terminals in adult rats exposed to a low dose regimen of MDMA during adolescence. <i>Neuropharmacology</i> , 2017 , 123, 385-394	5.5	15
40	Unbinding of Translocator Protein 18 kDa (TSPO) Ligands: From in Vitro Residence Time to in Vivo Efficacy via in Silico Simulations. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 3805-3814	5.7	13
39	Effect of crowding, temperature and age on glia activation and dopaminergic neurotoxicity induced by MDMA in the mouse brain. <i>NeuroToxicology</i> , 2016 , 56, 127-138	4.4	13
38	A _{2A} Receptor Antagonism and Dyskinesia in Parkinson's Disease. <i>Parkinson's Disease</i> , 2012 , 2012, 489858		13
37	The novel psychoactive substance methoxetamine induces persistent behavioral abnormalities and neurotoxicity in rats. <i>Neuropharmacology</i> , 2019 , 144, 219-232	5.5	13

36	Priming of rotational behavior by a dopamine receptor agonist in Hemiparkinsonian rats: movement-dependent induction. <i>Neuroscience</i> , 2009 , 158, 1625-31	3.9	12
35	Blockade of globus pallidus adenosine A(2A) receptors displays antiparkinsonian activity in 6-hydroxydopamine-lesioned rats treated with D(1) or D(2) dopamine receptor agonists. <i>Synapse</i> , 2008 , 62, 345-51	2.4	10
34	Subchronic-intermittent caffeine amplifies the motor effects of amphetamine in rats. <i>Amino Acids</i> , 2006 , 31, 359-63	3.5	10
33	Effect of long-term administration of antiretroviral drugs (Tenofovir and Nevirapine) on neuroinflammation and neuroplasticity in mouse hippocampi. <i>Journal of Chemical Neuroanatomy</i> , 2018 , 94, 86-92	3.2	10
32	Repeated Administration of 3,4-Methylenedioxymethamphetamine (MDMA) Elevates the Levels of Neuronal Nitric Oxide Synthase in the Nigrostriatal System: Possible Relevance to Neurotoxicity. <i>Neurotoxicity Research</i> , 2018 , 34, 763-768	4.3	9
31	Elevation of striatal urate in experimental models of Parkinson's disease: a compensatory mechanism triggered by dopaminergic nigrostriatal degeneration?. <i>Journal of Neurochemistry</i> , 2014 , 131, 284-9	6	9
30	Repertoire and Biological Function of Ultrasonic Vocalizations in Adolescent and Adult Rats. <i>Handbook of Behavioral Neuroscience</i> , 2018 , 25, 177-186	0.7	9
29	Dysfunctional mesocortical dopamine circuit at pre-adolescence is associated to aggressive behavior in MAO-A hypomorphic mice exposed to early life stress. <i>Neuropharmacology</i> , 2019 , 159, 1075-1077	5.5	8
28	Pharmacological therapy of Parkinson's disease: current options and new avenues. <i>Recent Patents on CNS Drug Discovery</i> , 2010 , 5, 221-38		8
27	Gender Differences in Neurodegeneration, Neuroinflammation and Na-Ca Exchangers in the Female A53T Transgenic Mouse Model of Parkinson's Disease. <i>Frontiers in Aging Neuroscience</i> , 2020 , 12, 118	5.3	6
26	Contribution of Caffeine to the Psychostimulant, Neuroinflammatory and Neurotoxic Effects of Amphetamine-Related Drugs. <i>Journal of Caffeine Research</i> , 2013 , 3, 79-84		6
25	Alteration in the progression of dopamine neuron degeneration: may caffeine offer new perspective?. <i>Experimental Neurology</i> , 2012 , 237, 218-22	5.7	6
24	Influence of dopamine transmission in the medial prefrontal cortex and dorsal striatum on the emission of 50-kHz ultrasonic vocalizations in rats treated with amphetamine: Effects on drug-stimulated and conditioned calls. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2020 , 97, 109797	5.5	6
23	Role of movement in long-term basal ganglia changes: implications for abnormal motor responses. <i>Frontiers in Computational Neuroscience</i> , 2013 , 7, 142	3.5	4
22	Neurophysiological and Neurochemical Effects of the Putative Cognitive Enhancer (-)-CE-123 on Mesocorticolimbic Dopamine System. <i>Biomolecules</i> , 2020 , 10,	5.9	4
21	What Do You See as the Main Priorities, Opportunities, and Challenges in Caffeine Research in the Next Five Years?. <i>Journal of Caffeine Research</i> , 2011 , 1, 5-12		3
20	Repeated exposure to JWH-018 induces adaptive changes in the mesolimbic and mesocortical dopaminergic pathways, glial cells alterations, and behavioural correlates. <i>British Journal of Pharmacology</i> , 2021 , 178, 3476-3497	8.6	3
19	Increased emissions of 50-kHz ultrasonic vocalizations in hemiparkinsonian rats repeatedly treated with dopaminomimetic drugs: A potential preclinical model for studying the affective properties of dopamine replacement therapy in Parkinson's disease. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2021 , 100, 110184	5.5	3

18	Symptomatic and Neuroprotective Effects of A2A Receptor Antagonists in Parkinson's Disease 2013 , 361-384		3
17	Anti-HIV drugs promote β -amyloid deposition and impair learning and memory in BALB/c mice. <i>Acta Neuropsychiatrica</i> , 2020 , 32, 257-264	3.9	2
16	Antagonism of Adenosine A1 or A2A Receptors Amplifies the Effects of MDMA on Glial Activation in the Mouse Brain: Relevance to Caffeine/MDMA Interactions. <i>Journal of Caffeine Research</i> , 2014 , 4, 41-47		2
15	Can dietary substances protect against Parkinson's disease? The case of caffeine. <i>Experimental Neurology</i> , 2010 , 225, 246-9	5.7	2
14	Neurochemical and Behavioral Characterization after Acute and Repeated Exposure to Novel Synthetic Cannabinoid Agonist 5-MDMB-PICA. <i>Brain Sciences</i> , 2020 , 10,	3.4	2
13	In utero exposure to dexamethasone causes a persistent and age-dependent exacerbation of the neurotoxic effects and glia activation induced by MDMA in dopaminergic brain regions of C57BL/6J mice. <i>NeuroToxicology</i> , 2021 , 83, 1-13	4.4	2
12	Adenosine A2A Receptors: Localization and Function. <i>Current Topics in Neurotoxicity</i> , 2015 , 1-25		1
11	Methylxanthines and Drug Dependence: Interactions and Toxicity 2016 , 912-923		1
10	Amphetamine Usage, Misuse, and Addiction Processes: An Overview 2016 , 14-24		1
9	Activation of Antioxidant and Proteolytic Pathways in the Nigrostriatal Dopaminergic System After 3,4-Methylenedioxymethamphetamine Administration: Sex-Related Differences. <i>Frontiers in Pharmacology</i> , 2021 , 12, 713486	5.6	1
8	Protective Agents in Parkinson's Disease: Caffeine and Adenosine A2A Receptor Antagonists 2014 , 2281-2298		0
7	Effects of combination antiretroviral drugs (cART) on hippocampal neuroplasticity in female mice. <i>Journal of NeuroVirology</i> , 2021 , 27, 325-333	3.9	0
6	Effects of Psychostimulants on Rat Emotional States and Emission of Ultrasonic Vocalizations. <i>Handbook of Behavioral Neuroscience</i> , 2018 , 281-293	0.7	
5	Role of Adenosine in the Basal Ganglia. <i>Handbook of Behavioral Neuroscience</i> , 2010 , 201-217	0.7	
4	Protective Agents in Parkinson's Disease: Caffeine and Adenosine A2A Receptor Antagonists 2021 , 1-24		
3	Experimental Psychopharmacology 2020 , 1-30		
2	Lack of drug- and cue-stimulated emissions of ultrasonic vocalizations in C57BL/6J mice repeatedly treated with amphetamine. <i>Neuroscience Letters</i> , 2021 , 749, 135733	3.3	
1	Role of Adenosine in the Basal Ganglia. <i>Handbook of Behavioral Neuroscience</i> , 2016 , 237-256	0.7	

