

Gordon W Arbuthnott

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140
papers

9,301
citations

44
h-index

95
g-index

157
ext. papers

9,891
ext. citations

5.3
avg, IF

5.63
L-index

#	Paper	IF	Citations
140	Quantitative recording of rotational behavior in rats after 6-hydroxy-dopamine lesions of the nigrostriatal dopamine system. <i>Brain Research</i> , 1970 , 24, 485-93	3.7	1799
139	Selective elimination of glutamatergic synapses on striatopallidal neurons in Parkinson disease models. <i>Nature Neuroscience</i> , 2006 , 9, 251-9	25.5	598
138	Crossed connections of the substantia nigra in the rat. <i>Journal of Comparative Neurology</i> , 1982 , 207, 283-303	3.4	391
137	Amphetamine-induced dopamine release in the rat striatum: an in vivo microdialysis study. <i>Journal of Neurochemistry</i> , 1988 , 50, 346-55	6	267
136	Dopamine reverses the depression of rat corticostriatal synapses which normally follows high-frequency stimulation of cortex in vitro. <i>Neuroscience</i> , 1996 , 70, 1-5	3.9	260
135	Pathologic gambling in Parkinson's disease: a behavioral manifestation of pharmacologic treatment?. <i>Movement Disorders</i> , 2000 , 15, 869-72	7	251
134	Plasticity of synapses in the rat neostriatum after unilateral lesion of the nigrostriatal dopaminergic pathway. <i>Journal of Neuroscience</i> , 1998 , 18, 4732-43	6.6	249
133	Space, time and dopamine. <i>Trends in Neurosciences</i> , 2007 , 30, 62-9	13.3	225
132	Therapeutic deep brain stimulation in Parkinsonian rats directly influences motor cortex. <i>Neuron</i> , 2012 , 76, 1030-41	13.9	218
131	Resonant antidromic cortical circuit activation as a consequence of high-frequency subthalamic deep-brain stimulation. <i>Journal of Neurophysiology</i> , 2007 , 98, 3525-37	3.2	203
130	Evidence of a breakdown of corticostriatal connections in Parkinson's disease. <i>Neuroscience</i> , 2005 , 132, 741-54	3.9	198
129	Intracranial self-stimulation with electrodes in the region of the locus coeruleus. <i>Brain Research</i> , 1972 , 36, 275-87	3.7	196
128	Spine density on neostriatal neurones changes with 6-hydroxydopamine lesions and with age. <i>Brain Research</i> , 1989 , 503, 334-8	3.7	187
127	Electrophysiological properties of single units in dopamine-rich mesencephalic transplants in rat brain. <i>Neuroscience Letters</i> , 1985 , 57, 205-10	3.3	168
126	Feedback loop or output pathway in striato-nigral fibres?. <i>Nature</i> , 1977 , 265, 363-5	50.4	158
125	Dopamine and synaptic plasticity in the neostriatum. <i>Journal of Anatomy</i> , 2000 , 196 (Pt 4), 587-96	2.9	136
124	The basic domain of the lentiviral Tat protein is responsible for damages in mouse brain: involvement of cytokines. <i>Virology</i> , 1994 , 205, 519-29	3.6	136

123	Graft-derived recovery from 6-OHDA lesions: specificity of ventral mesencephalic graft tissues. <i>Experimental Brain Research</i> , 1988 , 71, 411-24	2.3	132
122	Effects of selective monoamine oxidase inhibitors on the in vivo release and metabolism of dopamine in the rat striatum. <i>Journal of Neurochemistry</i> , 1990 , 55, 981-8	6	129
121	Morphological changes in the rat neostriatum after unilateral 6-hydroxydopamine injections into the nigrostriatal pathway. <i>Experimental Brain Research</i> , 1993 , 93, 17-27	2.3	127
120	The electrophysiology of dopamine (D2) receptors: a study of the actions of dopamine on corticostriatal transmission. <i>Neuroscience</i> , 1983 , 10, 349-55	3.9	125
119	Striatal contributions to reward and decision making: making sense of regional variations in a reiterated processing matrix. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1104, 192-212	6.5	116
118	Depletion of catecholamines in vivo induced by electrical stimulation of central monoamine pathways. <i>Brain Research</i> , 1970 , 24, 471-83	3.7	116
117	Relation of contraversive turning to unilateral release of dopamine from the nigrostriatal pathway in rats. <i>Experimental Neurology</i> , 1971 , 30, 484-91	5.7	108
116	Neurotoxicity of peptide analogues of the transactivating protein tat from Maedi-Visna virus and human immunodeficiency virus. <i>Neuroscience</i> , 1993 , 53, 1-6	3.9	104
115	Inhibition of neuronal nitric oxide synthase by 7-nitroindazole: effects upon local cerebral blood flow and glucose use in the rat. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1995 , 15, 766-73	7.3	86
114	Central catecholamine turnover and self-stimulation behaviour. <i>Brain Research</i> , 1971 , 27, 406-13	3.7	86
113	Interactions between serotonergic and dopaminergic systems in rat brain demonstrated by small unilateral lesions of the raphe nuclei. <i>European Journal of Pharmacology</i> , 1979 , 57, 295-305	5.3	84
112	Cortical effects of subthalamic stimulation correlate with behavioral recovery from dopamine antagonist induced akinesia. <i>Cerebral Cortex</i> , 2009 , 19, 1055-63	5.1	78
111	Electrophysiological demonstration of host cortical inputs to striatal grafts. <i>Neuroscience Letters</i> , 1987 , 83, 275-81	3.3	78
110	Dopamine release and metabolism in the rat striatum: an analysis by 'in vivo' brain microdialysis 1990 , 48, 281-93		77
109	Double anterograde tracing of outputs from adjacent "barrel columns" of rat somatosensory cortex. Neostriatal projection patterns and terminal ultrastructure. <i>Neuroscience</i> , 1999 , 88, 119-33	3.9	72
108	In vivo mechanisms underlying dopamine release from rat nigrostriatal terminals: II. Studies using potassium and tyramine. <i>Journal of Neurochemistry</i> , 1990 , 54, 1844-51	6	72
107	Electrophysiological properties of nigrothalamic neurons after 6-hydroxydopamine lesions in the rat. <i>Neuroscience</i> , 1990 , 38, 447-56	3.9	67
106	Turning behavior induced by electrical stimulation of the nigro-neostriatal system of the rat. <i>Experimental Neurology</i> , 1975 , 47, 162-72	5.7	61

105	Neurone specific regulation of dendritic spines in vivo by post synaptic density 95 protein (PSD-95). <i>Brain Research</i> , 2006 , 1090, 89-98	3.7	59
104	Altered paw preference after unilateral 6-hydroxy-dopamine injections into lateral hypothalamus. <i>Neuropsychologia</i> , 1981 , 19, 463-7	3.2	54
103	The pattern of innervation of the corpus striatum by the substantia nigra. <i>Neuroscience</i> , 1981 , 6, 2063-7	3.9	53
102	A light and electron microscopical study of enkephalin-immunoreactive structures in the rat neostriatum after removal of the nigrostriatal dopaminergic pathway. <i>Neuroscience</i> , 1991 , 42, 715-30	3.9	52
101	Delayed synaptic degeneration in the CNS of Wlds mice after cortical lesion. <i>Brain</i> , 2006 , 129, 1546-56	11.2	51
100	Computational models of the basal ganglia. <i>Movement Disorders</i> , 2000 , 15, 762-70	7	51
99	Distribution and synaptic contacts of the cortical terminals arising from neurons in the rat ventromedial thalamic nucleus. <i>Neuroscience</i> , 1990 , 38, 47-60	3.9	51
98	Identification of the source of the bilateral projection system from cortex to somatosensory neostriatum and an exploration of its physiological actions. <i>Neuroscience</i> , 2001 , 103, 87-96	3.9	46
97	Cholinergic modulation of striatal microcircuits. <i>European Journal of Neuroscience</i> , 2019 , 49, 604-622	3.5	45
96	In vivo mechanisms underlying dopamine release from rat nigrostriatal terminals: I. Studies using veratrine and ouabain. <i>Journal of Neurochemistry</i> , 1990 , 54, 1834-43	6	42
95	An afterhyperpolarization recorded in striatal cells 'in vitro': effect of dopamine administration. <i>Experimental Brain Research</i> , 1988 , 71, 399-405	2.3	42
94	Cortical effects of deep brain stimulation: implications for pathogenesis and treatment of Parkinson disease. <i>JAMA Neurology</i> , 2014 , 71, 100-3	17.2	41
93	Simulation of GABA function in the basal ganglia: computational models of GABAergic mechanisms in basal ganglia function. <i>Progress in Brain Research</i> , 2007 , 160, 313-29	2.9	41
92	Cerebrovascular autoregulation in response to hypertension induced by NG-nitro-L-arginine methyl ester. <i>Neuroscience</i> , 1994 , 59, 13-20	3.9	40
91	Dendritic domains of medium spiny neurons in the primate striatum: relationships to striosomal borders. <i>Journal of Comparative Neurology</i> , 1993 , 337, 614-28	3.4	39
90	Distribution of thyrotrophin-releasing hormone receptor messenger RNA in rat pituitary and brain. <i>Neuroscience</i> , 1993 , 53, 877-87	3.9	38
89	Function of catecholamine-containing neurones in mammalian central nervous system. <i>Nature: New Biology</i> , 1972 , 238, 245-6		38
88	The effect of chronic lithium administration on dopamine metabolism in rat striatum. <i>Psychopharmacology</i> , 1978 , 56, 163-6	4.7	37

87	Ultrastructural characteristics of enkephalin-immunoreactive boutons and their postsynaptic targets in the shell and core of the nucleus accumbens of the rat. <i>Journal of Comparative Neurology</i> , 1993 , 332, 224-36	3.4	35
86	Non-dopamine containing efferents of substantia nigra: the pathway to the lower brain stem. <i>Journal of Neural Transmission</i> , 1980 , 47, 221-6	4.3	35
85	Oestradiol-17 beta increases the firing rate of antidromically identified neurones of the rat neostriatum. <i>Neuroendocrinology</i> , 1983 , 37, 106-10	5.6	34
84	The rotational model and microdialysis: Significance for dopamine signalling, clinical studies, and beyond. <i>Progress in Neurobiology</i> , 2010 , 90, 176-89	10.9	33
83	The anatomical substrate of the turning behaviour seen after lesions in the nigrostriatal dopamine system. <i>Neuroscience</i> , 1983 , 8, 87-95	3.9	32
82	Refinement of learned skilled movement representation in motor cortex deep output layer. <i>Nature Communications</i> , 2017 , 8, 15834	17.4	30
81	Electrophysiological and anatomical observations concerning the pallidostriatal pathway in the rat. <i>Experimental Brain Research</i> , 1989 , 74, 303-10	2.3	29
80	Brain microdialysis studies on the control of dopamine release and metabolism in vivo. <i>Journal of Neuroscience Methods</i> , 1990 , 34, 73-81	3	29
79	Glial fibrillary acidic protein (GFAP)-immunoreactive astrocytes are increased in the hypothalamus of androgen-insensitive testicular feminized (Tfm) mice. <i>Neuroscience Letters</i> , 1990 , 118, 77-81	3.3	29
78	Selective loss of AMPA receptors at corticothalamic synapses in the epileptic stargazer mouse. <i>Neuroscience</i> , 2012 , 217, 19-31	3.9	28
77	The striatonigral fibres and the feedback control of dopamine metabolism. <i>Psychological Medicine</i> , 1978 , 8, 471-82	6.9	27
76	Schneider's first-rank symptoms of schizophrenia. An association with increased growth hormone response to apomorphine. <i>Archives of General Psychiatry</i> , 1984 , 41, 1040-3		26
75	Power fluctuations in beta and gamma frequencies in rat globus pallidus: association with specific phases of slow oscillations and differential modulation by dopamine D1 and D2 receptors. <i>Journal of Neuroscience</i> , 2011 , 31, 6098-107	6.6	25
74	Plasticity of striatopallidal terminals following unilateral lesion of the dopaminergic nigrostriatal pathway: a morphological study. <i>Experimental Brain Research</i> , 1997 , 116, 39-49	2.3	25
73	Cyclic nucleotide losses during tissue processing for immunohistochemistry. <i>Journal of Histochemistry and Cytochemistry</i> , 1980 , 28, 54-5	3.4	25
72	Neurotoxic mechanisms of transactivating protein Tat of Maedi-Visna virus. <i>Neuroscience Letters</i> , 1995 , 197, 215-8	3.3	24
71	Lesions of the locus ceruleus and noradrenaline metabolism in cerebral cortex. <i>Experimental Neurology</i> , 1973 , 41, 411-7	5.7	24
70	The neostriatum: two entities, one structure?. <i>Brain Structure and Function</i> , 2016 , 221, 1737-49	4	23

69	Corticofugal axons from adjacent 'barrel' columns of rat somatosensory cortex: cortical and thalamic terminal patterns. <i>Journal of Anatomy</i> , 2000 , 196 (Pt 3), 379-90	2.9	23
68	THE RELATIONSHIP BETWEEN NORADRENALINE TURNOVER IN CEREBRAL CORTEX AND ELECTRICAL SELF-STIMULATION THROUGH ELECTRODES IN THE REGION OF LOCUS COERULEUS. <i>Journal of Neurochemistry</i> , 1975 , 24, 677-681	6	23
67	Actions of adenosine A 2A receptors on synaptic connections of spiny projection neurons in the neostriatal inhibitory network. <i>Journal of Neurophysiology</i> , 2008 , 99, 1884-9	3.2	22
66	The corticostriatal system on computer simulation: an intermediate mechanism for sequencing of actions. <i>Progress in Brain Research</i> , 1993 , 99, 325-39	2.9	22
65	Cell Assembly Signatures Defined by Short-Term Synaptic Plasticity in Cortical Networks. <i>International Journal of Neural Systems</i> , 2015 , 25, 1550026	6.2	21
64	Separation of the motor consequences from other actions of unilateral 6-hydroxydopamine lesions in the nigrostriatal neurones of rat brain. <i>Brain Research</i> , 1985 , 348, 220-8	3.7	21
63	Effects of potassium channel blockers on synaptic plasticity in the corticostriatal pathway. <i>Neuropharmacology</i> , 1998 , 37, 523-33	5.5	18
62	The effect of unilateral and bilateral lesions in the locus coeruleus on the levels of 3-methoxy-4-hydroxyphenylglycol (MHPG) in neocortex. <i>Experientia</i> , 1973 , 29, 52-3		18
61	Possible links between hypothalamus and substantia nigra in the rat. <i>Appetite</i> , 1980 , 1, 43-51	4.5	17
60	Death of dopaminergic neurones in the rat substantia nigra can be induced by damage to globus pallidus. <i>European Journal of Neuroscience</i> , 2004 , 20, 1737-44	3.5	16
59	Acute in vivo neurotoxicity of peptides from Maedi Visna virus transactivating protein Tat. <i>Brain Research</i> , 1999 , 830, 285-91	3.7	16
58	Serotonin hyperinnervation after foetal nigra or raphe transplantation in the neostriatum of adult rats. <i>Neuroscience Letters</i> , 1991 , 128, 281-4	3.3	16
57	Some non-fluorescent connections of the nigro-neostriatal dopamine neurones. <i>Brain Research Bulletin</i> , 1982 , 9, 367-8	3.9	16
56	Substance P release from rat nucleus accumbens and striatum: an in vivo study using antibody microprobes. <i>Brain Research</i> , 1993 , 610, 234-41	3.7	15
55	Thalamic afferents to prefrontal cortices from ventral motor nuclei in decision-making. <i>European Journal of Neuroscience</i> , 2019 , 49, 646-657	3.5	15
54	Identified cholinergic neurones in the adult rat brain are enriched in GAP-43 mRNA: a double in situ hybridisation study. <i>Journal of Chemical Neuroanatomy</i> , 1995 , 9, 17-26	3.2	13
53	Participation of projections from substantia nigra reticulata to the lower brain stem in tuning behavior. <i>Experimental Neurology</i> , 1982 , 78, 380-90	5.7	13
52	Noradrenaline uptake into cerebral cortex: a histochemical study. <i>Journal of Neurochemistry</i> , 1969 , 16, 1599-604	6	13

51	Development of dissociated cryopreserved rat cortical neurons in vitro. <i>Journal of Neuroscience Methods</i> , 2012 , 205, 324-33	3	12
50	Extrasynaptic glutamate NMDA receptors: key players in striatal function. <i>Neuropharmacology</i> , 2015 , 89, 54-63	5.5	12
49	Modulation by dopamine of rat corticostriatal input. <i>Advances in Pharmacology</i> , 1998 , 42, 733-6	5.7	12
48	Different patterns of molecular forms of somatostatin are released by the rat median eminence and hypothalamus. <i>Neuroscience Letters</i> , 1985 , 57, 215-20	3.3	12
47	Electrophysiological evidence for an input from the anterior olfactory nucleus to substantia nigra. <i>Experimental Neurology</i> , 1979 , 66, 16-29	5.7	12
46	The effect of DSP-4 on some positively reinforced operant behaviors in the rat. <i>Pharmacology Biochemistry and Behavior</i> , 1982 , 16, 197-202	3.9	12
45	Functional anatomy: dynamic States in Basal Ganglia circuits. <i>Frontiers in Neuroanatomy</i> , 2010 , 4, 144	3.6	11
44	Cerebellar sub-divisions differ in exercise-induced plasticity of noradrenergic axons and in their association with resilience to activity-based anorexia. <i>Brain Structure and Function</i> , 2017 , 222, 317-339	4	10
43	Basal ganglia-thalamus and the "crowning enigma". <i>Frontiers in Neural Circuits</i> , 2015 , 9, 71	3.5	10
42	The corticostriatal system in dissociated cell culture. <i>Frontiers in Systems Neuroscience</i> , 2011 , 5, 52	3.5	10
41	Striatal interneurons in dissociated cell culture. <i>Histochemistry and Cell Biology</i> , 2010 , 134, 1-12	2.4	10
40	The influence of the subthalamic nucleus upon the damage to the dopamine system following lesions of globus pallidus in rats. <i>European Journal of Neuroscience</i> , 2007 , 26, 642-8	3.5	10
39	Presynaptic D1 heteroreceptors and mGlu autoreceptors act at individual cortical release sites to modify glutamate release. <i>Brain Research</i> , 2016 , 1639, 74-87	3.7	10
38	Synchronized activation of striatal direct and indirect pathways underlies the behavior in unilateral dopamine-depleted mice. <i>European Journal of Neuroscience</i> , 2019 , 49, 1512-1528	3.5	10
37	Microglial activation is not prevented by tacrolimus but dopamine neuron damage is reduced in a rat model of Parkinson's disease progression. <i>Brain Research</i> , 2008 , 1216, 78-86	3.7	9
36	Increases in dopamine metabolism are not a general feature of intracranial self-stimulation. <i>Life Sciences</i> , 1982 , 30, 1081-5	6.8	9
35	Immunohistochemical localization of a spectrin-like protein (fodrin) in nerve cells in culture. <i>Neuroscience Letters</i> , 1986 , 63, 33-8	3.3	8
34	Dopamine cells are neurones too!. <i>Trends in Neurosciences</i> , 1996 , 19, 279-80	13.3	7

33	The thorny problem of what dopamine does in psychiatric disease. <i>Progress in Brain Research</i> , 1993 , 99, 341-50	2.9	7
32	Are the Symptoms of Parkinsonism Cortical in Origin?. <i>Computational and Structural Biotechnology Journal</i> , 2017 , 15, 21-25	6.8	6
31	Gating of Cortical Input to the Striatum. <i>Handbook of Behavioral Neuroscience</i> , 2010 , 341-351	0.7	6
30	Slowly progressive dopamine cell loss--a model on which to test neuroprotective strategies for Parkinson's disease?. <i>Reviews in the Neurosciences</i> , 2009 , 20, 85-94	4.7	6
29	In vivo detection of immunoreactive neurokinin A release within rat substantia nigra and its dependency on a dopaminergic input. <i>Brain Research</i> , 1995 , 679, 241-8	3.7	6
28	Identification of grafted neurons with fluorescent-labelled microbeads. <i>Progress in Brain Research</i> , 1990 , 82, 385-90	2.9	6
27	The use of ultra-violet setting glue for microelectrode fabrication. <i>Journal of Neuroscience Methods</i> , 1980 , 3, 203-4	3	6
26	Thalamostriatal synapses-another substrate for dopamine action?. <i>Progress in Brain Research</i> , 2014 , 211, 1-11	2.9	5
25	Lithium neurotoxicity. I. The concentration of lithium in dopaminergic systems of rat brain determined by flameless atomic absorption spectrophotometry. <i>Acta Pharmacologica Et Toxicologica</i> , 1978 , 42, 259-63		5
24	Orthograde transport of Nuclear yellow: a problem and its solution. <i>Journal of Neuroscience Methods</i> , 1982 , 6, 365-8	3	5
23	Advances in Fibre Microendoscopy for Neuronal Imaging. <i>Optical Data Processing and Storage</i> , 2016 , 2,		5
22	Rebuilding a realistic corticostriatal "social network" from dissociated cells. <i>Frontiers in Systems Neuroscience</i> , 2015 , 9, 63	3.5	4
21	Astrocytes immunoreactive for glial fibrillary acidic protein (GFAP) are increased in the mediobasal hypothalamus in hypogonadal (hpg) mice. <i>Molecular and Cellular Neurosciences</i> , 1992 , 3, 473-81	4.8	4
20	Fiber-bundle-basis sparse reconstruction for high resolution wide-field microendoscopy. <i>Biomedical Optics Express</i> , 2018 , 9, 1843-1851	3.5	3
19	Neuropharmacology 2010 , 45-76		3
18	Dealing with the devil in the detail - some thoughts about the next model of the basal ganglia. <i>Parkinsonism and Related Disorders</i> , 2009 , 15 Suppl 3, S139-42	3.6	3
17	The dopamine synapse and the notion of pleasure centres in the brain. <i>Trends in Neurosciences</i> , 1980 , 3, 199-200	13.3	3
16	The role of dopamine in pontine intracranial self-stimulation: a re-examination of the problem. <i>Neuroscience Letters</i> , 1981 , 26, 169-75	3.3	3

15	Some Consequences of Local Blockade of Nitric-Oxide Synthase in the Rat Neostriatum. <i>Advances in Behavioral Biology</i> , 1994 , 171-178		3
14	Functional Interactions within the Subthalamic Nucleus. <i>Advances in Behavioral Biology</i> , 2002 , 359-368		3
13	Involvement of viral regulatory gene products in the pathogenesis of lentivirus infections. <i>Annals of the New York Academy of Sciences</i> , 1994 , 724, 107-24	6.5	2
12	The influence of the estrous cycle on the activity of striatal neurons recorded from freely moving rats. <i>Neuroscience Letters</i> , 1989 , 107, 233-8	3.3	2
11	Identification of 5-hydroxytryptamine in the presence of catecholamines by microspectrofluorimetry. <i>Journal of Pharmacological Methods</i> , 1980 , 3, 97-102		2
10	Uptake of 5-hydroxytryptamine in the catecholamine containing areas of the hypothalamus of the rat after treatment with phenzazine and tryptophan. <i>British Journal of Pharmacology</i> , 1981 , 73, 143-8	8.6	2
9	Support for the hypothesis that the actions of dopamine are not merely motor. <i>Behavioral and Brain Sciences</i> , 1982 , 5, 54-55	0.9	2
8	Striatal bilateral control of skilled forelimb movement. <i>Cell Reports</i> , 2021 , 34, 108651	10.6	2
7	Prelimbic cortical targets of ventromedial thalamic projections include inhibitory interneurons and corticostriatal pyramidal neurons in the rat. <i>Brain Structure and Function</i> , 2020 , 225, 2057-2076	4	1
6	FRETing over dopamine: single cell cAMP and protein kinase A responses to 100 ms dopamine application. <i>Journal of Physiology</i> , 2013 , 591, 3107	3.9	
5	Spectrin-like protein (fodrin) in nerve cells in culture. <i>Biochemical Society Transactions</i> , 1986 , 14, 356-357	5.1	
4	CHOLINE IN ALZHEIMER'S DISEASE. <i>Lancet, The</i> , 1978 , 312, 1054		40
3	Activation of NOS Interneurones in Striatum after Excitotoxic Lesions of Rat Globus Pallidus 2005 , 485-491		
2	Neuromodulation and Neurodynamics of Striatal Inhibitory Networks: Implications for Parkinson's Disease 2009 , 1-11		
1	Of Rats and Patients: Some Thoughts About Why Rats Turn in Circles and Parkinson's Disease Patients Cannot Move Normally. <i>Neuromethods</i> , 2011 , 317-323	0.4	