Roland S G Jones

List of Publications by Year
in descending order

84	5,252	94433 37	85541 71
papers	citations	h-index	g-index

84	84	84	4110
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The AMPA receptor antagonist perampanel suppresses epileptic activity in human focal cortical dysplasia. Epilepsia Open, 2021, , .	2.4	4
2	Human brain slices for epilepsy research: Pitfalls, solutions and future challenges. Journal of Neuroscience Methods, 2016, 260, 221-232.	2.5	50
3	A Low Mortality, High Morbidity Reduced Intensity Status Epilepticus (RISE) Model of Epilepsy and Epileptogenesis in the Rat. PLoS ONE, 2016, 11, e0147265.	2.5	23
4	Embracing change. , 2016, , 7-7.		0
5	Differential Effects of D-Cycloserine and ACBC at NMDA Receptors in the Rat Entorhinal Cortex Are Related to Efficacy at the Co-Agonist Binding Site. PLoS ONE, 2015, 10, e0133548.	2.5	10
6	Cortical oscillatory dynamics and benzodiazepine-site modulation of tonic inhibition in fast spiking interneurons. Neuropharmacology, 2015, 95, 192-205.	4.1	24
7	Astroglial d-serine is the endogenous co-agonist at the presynaptic NMDA receptor in rat entorhinal cortex. Neuropharmacology, 2014, 83, 118-127.	4.1	8
8	Ethosuximide modifies network excitability in the rat entorhinal cortex via an increase in GABA release. Neuropharmacology, 2012, 62, 807-814.	4.1	11
9	Preâ€•and postâ€synaptic functions of kainate receptors at glutamate and GABA synapses in the rat entorhinal cortex. Hippocampus, 2012, 22, 555-576.	1.9	14
10	On the role of the baseline firing rate in determining the responsiveness of cingulate cortical neurons to iontophoretically applied substance P and acetylcholine. Journal of Pharmacy and Pharmacology, 2011, 36, 623-625.	2.4	9
11	Diverse antiepileptic drugs increase the ratio of background synaptic inhibition to excitation and decrease neuronal excitability in neurones of the rat entorhinal cortex in vitro. Neuroscience, 2010, 167, 456-474.	2.3	24
12	The pilocarpine model of temporal lobe epilepsy. Journal of Neuroscience Methods, 2008, 172, 143-157.	2.5	834
13	Mobility of NMDA autoreceptors but not postsynaptic receptors at glutamate synapses in the rat entorhinal cortex. Journal of Physiology, 2008, 586, 4905-4924.	2.9	18
14	The Role of NMDA Receptor Subtypes in Short-Term Plasticity in the Rat Entorhinal Cortex. Neural Plasticity, 2008, 2008, 1-13.	2.2	15
15	Neuronal Plasticity in the Entorhinal Cortex. Neural Plasticity, 2008, 2008, 1-2.	2.2	5
16	Simultaneous estimation of global background synaptic inhibition and excitation from membrane potential fluctuations in layer III neurons of the rat entorhinal cortex in vitro. Neuroscience, 2007, 147, 884-892.	2.3	11
17	Differential control of two forms of glutamate release by group III metabotropic glutamate receptors at rat entorhinal synapses. Neuroscience, 2007, 148, 7-21.	2.3	14
18	Felbamate but not phenytoin or gabapentin reduces glutamate release by blocking presynaptic NMDA receptors in the entorhinal cortex. Epilepsy Research, 2007, 77, 157-164.	1.6	18

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19	Depression of Glutamate and GABA Release by Presynaptic GABA_B Receptors in the Entorhinal Cortex in Normal and Chronically Epileptic Rats. NeuroSignals, 2006, 15, 202-215.	0.9	31
20	Tonic Facilitation of Glutamate Release by Presynaptic NR2B-Containing NMDA Receptors Is Increased in the Entorhinal Cortex of Chronically Epileptic Rats. Journal of Neuroscience, 2006, 26, 406-410.	3.6	98
21	Neuronal metabolism governs cortical network response state. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 5597-5601.	7.1	165
22	SYMPOSIUM REPORT. Background synaptic activity in rat entorhinal cortical neurones: differential control of transmitter release by presynaptic receptors. Journal of Physiology, 2005, 562, 107-120.	2.9	28
23	Fundamental differences in spontaneous synaptic inhibition between deep and superficial layers of the rat entorhinal cortex. Hippocampus, 2005, 15, 232-245.	1.9	31
24	Dual effects of gabapentin and pregabalin on glutamate release at rat entorhinal synapses in vitro. European Journal of Neuroscience, 2004, 20, 1566-1576.	2.6	129
25	Lamina-specific differences in GABAB autoreceptor-mediated regulation of spontaneous GABA release in rat entorhinal cortex. Neuropharmacology, 2004, 46, 31-42.	4.1	18
26	Neurokinin-1 receptors in the rat nucleus tractus solitarius: pre- and postsynaptic modulation of glutamate and GABA release. Neuroscience, 2004, 127, 467-479.	2.3	41
27	Valproate modifies spontaneous excitation and inhibition at cortical synapses in vitro. Neuropharmacology, 2003, 45, 907-917.	4.1	46
28	Activation of neurokinin-1 receptors promotes GABA release at synapses in the rat entorhinal cortex. Neuroscience, 2002, 115, 575-586.	2.3	33
29	Neurokinin-receptor-mediated depolarization of cortical neurons elicits an increase in glutamate release at excitatory synapses. European Journal of Neuroscience, 2002, 16, 1896-1906.	2.6	40
30	Activation of presynaptic group III metabotropic glutamate receptors depresses spontaneous inhibition in layer V of the rat entorhinal cortex. Neuroscience, 2001, 105, 71-78.	2.3	17
31	Differential Actions of PKA and PKC in the Regulation of Glutamate Release by Group III mGluRs in the Entorhinal Cortex. Journal of Neurophysiology, 2001, 85, 571-579.	1.8	38
32	NR2B-Containing NMDA Autoreceptors at Synapses on Entorhinal Cortical Neurons. Journal of Neurophysiology, 2001, 86, 1644-1651.	1.8	124
33	Activation of Presynaptic Group III Metabotropic Receptors Enhances Glutamate Release in Rat Entorhinal Cortex. Journal of Neurophysiology, 2000, 83, 2519-2525.	1.8	39
34	Laminar differences in recurrent excitatory transmission in the rat entorhinal cortex in vitro. Neuroscience, 2000, 99, 413-422.	2.3	139
35	The anticonvulsant, lamotrigine decreases spontaneous glutamate release but increases spontaneous GABA release in the rat entorhinal cortex in vitro. Neuropharmacology, 2000, 39, 2139-2146.	4.1	154
36	Tachykinins may modify spontaneous epileptiform activity in the rat entorhinal cortex in vitro by activating GABAergic inhibition. Neuroscience, 1998, 83, 1047-1062.	2.3	27

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37	Electrophysiological characterisation of tachykinin receptors in the rat nucleus of the solitary tract and dorsal motor nucleus of the vagus in vitro. British Journal of Pharmacology, 1997, 122, 1151-1159.	5.4	41
38	Tonic facilitation of glutamate release by presynaptic N-methyl-d-aspartate autoreceptors in the entorhinal cortex. Neuroscience, 1996, 75, 339-344.	2.3	241
39	A comparison of spontaneous EPSCs in layer II and layer IV-V neurons of the rat entorhinal cortex in vitro. Journal of Neurophysiology, 1996, 76, 1089-1100.	1.8	51
40	The direct perforant path input to CA1: Excitatory or inhibitory?. Hippocampus, 1995, 5, 101-103.	1.9	33
41	Frequency-dependent alterations in synaptic transmission in entorhinal-hippocampal pathways. Hippocampus, 1995, 5, 125-128.	1.9	23
42	Synaptic and intrinsic properties of neurons of origin of the perforant path in layer II of the rat entorhinal cortex in vitro. Hippocampus, 1994, 4, 335-353.	1.9	91
43	Interactions of Dopamine with Glutamate- and GABA-mediated Synaptic Transmission in the Rat Entorhinal CortexIn Vitro. European Journal of Neuroscience, 1993, 5, 760-767.	2.6	74
44	Entorhinal-hippocampal connections: a speculative view of their function. Trends in Neurosciences, 1993, 16, 58-64.	8.6	243
45	Basket-like interneurones in layer II of the entorhinal cortex exhibit a powerful NMDA-mediated synaptic excitation. Neuroscience Letters, 1993, 149, 35-39.	2.1	163
46	A reevaluation of excitatory amino acid-mediated synaptic transmission in rat dentate gyrus. Journal of Neurophysiology, 1990, 64, 119-132.	1.8	84
47	Synchronous discharges in the rat entorhinal cortex in vitro: Site of initiation and the role of excitatory amino acid receptors. Neuroscience, 1990, 34, 657-670.	2.3	105
48	Activation of receptors contributes to the EPSP at perforant path synapses in the rat dentate gyrus in vitro. Neuroscience Letters, 1989, 97, 323-328.	2.1	51
49	Spontaneous activity mediated by NMDA receptors in immature rat entorhinal cortex in vitro. Neuroscience Letters, 1989, 104, 93-98.	2.1	24
50	Epileptiform events induced by GABA-antagonists in entorhinal cortical cells in vitro are partly mediated byN-methyl-d-aspartate receptors. Brain Research, 1988, 457, 113-121.	2.2	63
51	Verapamil blocks the afterhyperpolarization but not the spike frequency accommodation of rat CA1 pyramidal cells in vitro. Brain Research, 1988, 462, 367-371.	2.2	16
52	Complex synaptic responses of entorhinal cortical cells in the rat to subicular stimulation in vitro: demonstration of an NMDA receptor-mediated component. Neuroscience Letters, 1987, 81, 209-214.	2.1	50
53	Epileptiform activity induced by lowering extracellular [Mg2+] in combined hippocampal-entorhinal cortex slices: Modulation by receptors for norepinephrine and N-methyl-d-aspartate. Epilepsy Research, 1987, 1, 53-62.	1.6	247
54	Abolition of the orthodromically evoked IPSP of CA1 pyramidal cells before the EPSP during washout of calcium from hippocampal slices. Experimental Brain Research, 1987, 65, 676-80.	1.5	52

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55	Glutamate-induced activation of rat locus coeruleus increases CA1 pyramidal cell excitability. Neuroscience Letters, 1986, 65, 11-16.	2.1	19
56	Epileptiform activity in combined slices of the hippocampus, subiculum and entorhinal cortex during perfusion with low magnesium medium. Neuroscience Letters, 1986, 69, 156-161.	2.1	334
57	Does pipecolic acid interact with the central GABA-ergic system?. Journal of Neural Transmission, 1986, 67, 175-189.	2.8	25
58	The specific protective effect of diazepam and valproate against isoniazid-induced seizures is not correlated with increased GABA levels. Journal of Neural Transmission, 1985, 63, 169-189.	2.8	24
59	Reduced activity of locus coeruleus neurons in hypertensive rats. Neuroscience Letters, 1985, 61, 25-29.	2.1	35
60	The sensitivity of hippocampal pyramidal neurons to serotoninin vitro: Effect of prolonged treatment with clorgyline or clomipramine. Journal of Neural Transmission, 1984, 60, 265-271.	2.8	21
61	An increase in sensitivity of rat cingulate cortical neurones to substance P occurs following withdrawal of chronic administration of antidepressant drugs. British Journal of Pharmacology, 1984, 81, 659-664.	5.4	25
62	Activation of the noradrenergic projection from locus coeruleus reduces the excitatory responses of anterior cingulate cortical neurones to substance P. Neuroscience, 1984, 13, 819-825.	2.3	27
63	Multiple changes in the sensitivity of cingulate cortical neurones to putative neurotransmitters in ageing rats: Substance P, acetylcholine and noradrenaline. Neuroscience Letters, 1984, 50, 31-36.	2.1	35
64	Monoaminergic modulation of the sensitivity of neurones in the cingulate cortex to iontophoretically applied substance P. Brain Research, 1984, 311, 297-305.	2.2	31
65	Trace Amine-Peptide Interactions.II. Phenylethylamine and Enkephalin, P-Tyramine and Enkephalin. , 1984, , 327-331.		1
66	Changes in Levels of Dopamine and Tyramine in the Rat Caudate Nucleus Following Alterations of Impulse Flow in the Nigrostriatal Pathway. Journal of Neurochemistry, 1983, 40, 396-401.	3.9	21
67	The locus coeruleus: actions of psychoactive drugs. Experientia, 1983, 39, 242-249.	1.2	80
68	Trace biogenic amines: a possible functional role in the CNS. Trends in Pharmacological Sciences, 1983, 4, 426-429.	8.7	25
69	Altered sensitivity of forebrain neurones to iontophoretically applied noradrenaline in aging rats. Neurobiology of Aging, 1983, 4, 97-99.	3.1	37
70	Dopamine agonist-induced restoration of drinking in response to hypertonie saline in adipsic dopamine denervated rats. Brain Research Bulletin, 1982, 8, 375-379.	3.0	19
71	A structure-activity profile of substance P and some of its fragments on supraspinal neurones in the rat. Neuroscience Letters, 1982, 33, 67-71.	2.1	26
72	Tryptamine modifies cortical neurone responses evoked by stimulation of nucleus raphe medianus. Brain Research Bulletin, 1982, 8, 435-437.	3.0	19

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73	Excitatory effects of ACTH on noradrenergic neurons of the locus coeruleus in the rat. Brain Research, 1982, 251, 177-179.	2.2	40
74	Responses of cortical neurones to stimulation of the nucleus raphÃ© medianus: A pharmacological analysis of the role of indoleamines. Neuropharmacology, 1982, 21, 511-520.	4.1	78
75	Further studies on the role of indoleamines in the responses of cortical neurones to stimulation of nucleus raphe medianus: Effects of indoleamine precursor loading. Neuropharmacology, 1982, 21, 1273-1277.	4.1	19
76	A comparison of the responses of cortical neurones to iontophoretically applied tryptamine and 5-hydroxytryptamine in the rat. Neuropharmacology, 1982, 21, 209-214.	4.1	46
77	In vivo PHARMACOLOGICAL STUDIES ON THE INTERACTIONS BETWEEN TRYPTAMINE AND 5â€HYDROXYTRYPTAMINE. British Journal of Pharmacology, 1981, 73, 485-493.	5.4	40
78	Specific enhancement of neuronal responses to catecholamine by p-tyramine. Journal of Neuroscience Research, 1981, 6, 49-61.	2.9	21
79	The Effect of Mesencephalic Lesions on Tyramine and Dopamine in the Caudate Nucleus of the Rat. Journal of Neurochemistry, 1981, 36, 1898-1903.	3.9	36
80	Enhancement of 5-Hydroxytryptamine-induced behavioral effects following chronic administration of antidepressant drugs. Psychopharmacology, 1980, 69, 307-311.	3.1	38
81	Interactions between p-tyramine, m-tyramine, or Î²-phenylethylamine and dopamine on single neurones in the cortex and caudate nucleus of the rat. Canadian Journal of Physiology and Pharmacology, 1980, 58, 222-227.	1.4	89
82	Long-term administration of atropine, imipramine, and viloxazine alters responsiveness of rat cortical neurones to acetylcholine. Canadian Journal of Physiology and Pharmacology, 1980, 58, 531-535.	1.4	15
83	Tryptamine and 5-hydroxytryptamine: Actions and interactions on cortical neurones in the rat. Life Sciences, 1980, 27, 1849-1856.	4.3	68
84	POTENTIATION OF RESPONSES TO MONOAMINES BY ANTIDEPRESSANTS AFTER DESTRUCTION OF MONOAMINE AFFERENTS. British Journal of Pharmacology, 1979, 65, 501-510.	5.4	16