Gavin S. Dawe

List of Publications by Citations

96 papers	3,026 citations	29 h-index	52 g-index
99 ext. papers	3,384 ext. citations	5.4 avg, IF	4.9 L-index

#	Paper	IF	Citations
96	Neuroprotective effects of hydrogen sulfide on Parkinson's disease rat models. *Aging Cell*, **2010**, 9, 135-46	9.9	268
95	A TAG1-APP signalling pathway through Fe65 negatively modulates neurogenesis. *Nature Cell Biology*, **2008**, 10, 283-94	23.4	155
94	Hydrogen sulphide regulates calcium homeostasis in microglial cells. *Glia*, **2006**, 54, 116-24	9	128
93	Fetal microchimerism in the maternal mouse brain: a novel population of fetal progenitor or stem cells able to cross the blood-brain barrier?. *Stem Cells*, **2005**, 23, 1443-52	5.8	121
92	Alterations in spatial learning and memory after forced exercise. *Brain Research*, **2006**, 1113, 186-93	3.7	113
91	NB-3/Notch1 pathway via Deltex1 promotes neural progenitor cell differentiation into oligodendrocytes. *Journal of Biological Chemistry*, **2004**, 279, 25858-65	5.4	105
90	Extracellular recordings in the colchicine-lesioned rat dentate gyrus following transplants of fetal dentate gyrus and CA1 hippocampal subfield tissue. *Brain Research*, **1993**, 625, 63-74	3.7	104
89	Mechanisms of Action and Persistent Neuroplasticity by Drugs of Abuse. *Pharmacological Reviews*, **2015**, 67, 872-1004	22.5	93
88	A 100-Channel 1-mW Implantable Neural Recording IC. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2013**, 60, 2584-2596	3.9	82
87	Hydrogen sulphide in the hypothalamus causes an ATP-sensitive K+ channel-dependent decrease in blood pressure in freely moving rats. *Neuroscience*, **2008**, 152, 169-77	3.9	81
86	A role for sorting nexin 27 in AMPA receptor trafficking. *Nature Communications*, **2014**, 5, 3176	17.4	77
85	A 0.45 V 100-channel neural-recording IC with sub- W/channel consumption in 0.18 n CMOS. *IEEE Transactions on Biomedical Circuits and Systems*, **2013**, 7, 735-46	5.1	77
84	Slow excitotoxicity in Alzheimer's disease. *Journal of Alzheimer's Disease*, **2013**, 35, 643-68	4.3	69
83	Microgel iron oxide nanoparticles for tracking human fetal mesenchymal stem cells through magnetic resonance imaging. *Stem Cells*, **2009**, 27, 1921-31	5.8	64
82	Specific inhibition of p25/Cdk5 activity by the Cdk5 inhibitory peptide reduces neurodegeneration in vivo. *Journal of Neuroscience*, **2013**, 33, 334-43	6.6	63
81	Olanzapine activates the rat locus coeruleus: in vivo electrophysiology and c-Fos immunoreactivity. *Biological Psychiatry*, **2001**, 50, 510-20	7.9	62
80	Pregnancy-associated progenitor cells differentiate and mature into neurons in the maternal brain. *Stem Cells and Development*, **2010**, 19, 1819-30	4.4	58

79	Changes in paired-pulse facilitation correlate with induction of long-term potentiation in area CA1 of rat hippocampal slices. *Neuroscience*, **1997**, 76, 829-43	3.9	56
78	Morphological and functional characterization of predifferentiation of myelinating glia-like cells from human bone marrow stromal cells through activation of F3/Notch signaling in mouse retina. *Stem Cells*, **2008**, 26, 580-90	5.8	48
77	Cell Migration from Baby to Mother. *Cell Adhesion and Migration*, **2007**, 1, 19-27	3.2	47
76	Nicotine induces long-lasting potentiation in the dentate gyrus of nicotine-primed rats. *Neuroscience Research*, **1997**, 29, 81-5	2.9	46
75	Therapeutic effect of hydrogen sulfide-releasing L-Dopa derivative ACS84 on 6-OHDA-induced Parkinson's disease rat model. *PLoS ONE*, **2013**, 8, e60200	3.7	43
74	Expression and localization of the iron-siderophore binding protein lipocalin 2 in the normal rat brain and after kainate-induced excitotoxicity. *Neurochemistry International*, **2011**, 59, 591-9	4.4	42
73	800 nW 43 nV/[radical]Hz neural recording amplifier with enhanced noise efficiency factor. *Electronics Letters*, **2012**, 48, 479	1.1	38
72	Changes in neurite outgrowth but not in cell division induced by low EMF exposure: influence of field strength and culture conditions on responses in rat PC12 pheochromocytoma cells. *Bioelectrochemistry*, **2000**, 52, 23-8	5.6	35
71	Ketamine and suicidal ideation in depression: Jumping the gun?. *Pharmacological Research*, **2015**, 99, 23-35	10.2	30
70	Relaxin's the brain: a case for targeting the nucleus incertus network and relaxin-3/RXFP3 system in neuropsychiatric disorders. *British Journal of Pharmacology*, **2017**, 174, 1061-1076	8.6	30
69	Progesterone impairs human ether-a-go-go-related gene (HERG) trafficking by disruption of intracellular cholesterol homeostasis. *Journal of Biological Chemistry*, **2011**, 286, 22186-94	5.4	30
68	Locus coeruleus stimulation and noradrenergic modulation of hippocampo-prefrontal cortex long-term potentiation. *International Journal of Neuropsychopharmacology*, **2010**, 13, 1219-31	5.8	29
67	Chronic high-dose haloperidol has qualitatively similar effects to risperidone and clozapine on immediate-early gene and tyrosine hydroxylase expression in the rat locus coeruleus but not medial prefrontal cortex. *Neuroscience Research*, **2007**, 57, 17-28	2.9	29
66	A digitally assisted, signal folding neural recording amplifier. *IEEE Transactions on Biomedical Circuits and Systems*, **2014**, 8, 528-42	5.1	27
65	Cell migration from baby to mother. *Cell Adhesion and Migration*, **2007**, 1, 19-27	3.2	27
64	APP intracellular domain acts as a transcriptional regulator of miR-663 suppressing neuronal differentiation. *Cell Death and Disease*, **2015**, 6, e1651	9.8	26
63	A Flexi-PEGDA Upconversion Implant for Wireless Brain Photodynamic Therapy. *Advanced Materials* , **2020**, 32, e2001459	24	25
62	Corticotropin-releasing factor infusion into nucleus incertus suppresses medial prefrontal cortical activity and hippocampo-medial prefrontal cortical long-term potentiation. *European Journal of Neuroscience*, **2013**, 38, 2516-25	3.5	24

61	Effect of voluntary running on adult hippocampal neurogenesis in cholinergic lesioned mice. *BMC Neuroscience*, **2009**, 10, 57	3.2	24
60	Effective Cryopreservation of Neural Stem or Progenitor Cells without Serum or Proteins by Vitrification. *Cell Transplantation*, **2009**, 18, 135-144	4	24
59	Metabolic profiling of CHO-APP695 cells revealed mitochondrial dysfunction prior to amyloid-β pathology and potential therapeutic effects of both PPARδ and PPARγ Agonisms for Alzheimer's disease. *Journal of Alzheimer's Disease*, **2015**, 44, 215-31	4.3	23
58	Amyloid precursor protein at node of Ranvier modulates nodal formation. *Cell Adhesion and Migration*, **2014**, 8, 396-403	3.2	22
57	Cholinergic facilitation and inhibition of long-term potentiation of CA1 in the urethane-anaesthetized rats. *Brain Research*, **1997**, 754, 95-102	3.7	22
56	Inhibitors of the tyrosine kinase signaling cascade attenuated thrombin-induced guinea pig airway smooth muscle cell proliferation. *Biochemical and Biophysical Research Communications*, **2002**, 293, 72-8	3.4	22
55	Amyloid precursor protein enhances Nav1.6 sodium channel cell surface expression. *Journal of Biological Chemistry*, **2015**, 290, 12048-57	5.4	20
54	Effects of short-term and chronic olanzapine treatment on immediate early gene protein and tyrosine hydroxylase immunoreactivity in the rat locus coeruleus and medial prefrontal cortex. *Neuroscience*, **2006**, 143, 573-85	3.9	20
53	Distribution of Alox15 in the Rat Brain and Its Role in Prefrontal Cortical Resolvin D1 Formation and Spatial Working Memory. *Molecular Neurobiology*, **2018**, 55, 1537-1550	6.2	18
52	Cell surface sialylation and fucosylation are regulated by L1 via phospholipase Cgamma and cooperate to modulate neurite outgrowth, cell survival and migration. *PLoS ONE*, **2008**, 3, e3841	3.7	18
51	Nucleus incertus contributes to an anxiogenic effect of buspirone in rats: Involvement of 5-HT1A receptors. *Neuropharmacology*, **2016**, 110, 1-14	5.5	18
50	Acute antipsychotic treatments induce distinct c-Fos expression patterns in appetite-related neuronal structures of the rat brain. *Brain Research*, **2013**, 1508, 34-43	3.7	17
49	Expression and localisation of brain-type organic cation transporter (BOCT/24p3R/LCN2R) in the normal rat hippocampus and after kainate-induced excitotoxicity. *Neurochemistry International*, **2015**, 87, 43-59	4.4	17
48	Selective lesioning of nucleus incertus with corticotropin releasing factor-saporin conjugate. *Brain Research*, **2014**, 1543, 179-90	3.7	17
47	Central noradrenergic blockade prevents autotomy in rat: implication for pharmacological prevention of postdenervation pain syndrome. *Brain Research Bulletin*, **2002**, 57, 581-6	3.9	17
46	Cell Migration from Baby to Mother		17
45	(R)-fluoxetine enhances cognitive flexibility and hippocampal cell proliferation in mice. *Journal of Psychopharmacology*, **2018**, 32, 441-457	4.6	15
44	APP upregulation contributes to retinal ganglion cell degeneration via JNK3. *Cell Death and Differentiation*, **2018**, 25, 663-678	12.7	15

43	Stress activates the nucleus incertus and modulates plasticity in the hippocampo-medial prefrontal cortical pathway. *Brain Research Bulletin*, **2016**, 120, 83-9	3.9	15
42	Wip1 phosphatase positively modulates dendritic spine morphology and memory processes through the p38MAPK signaling pathway. *Cell Adhesion and Migration*, **2012**, 6, 333-43	3.2	14
41	Hydrocarbon stapled B chain analogues of relaxin-3 retain biological activity. *Peptides*, **2016**, 84, 44-57	3.8	13
40	Cell surface sialylation and fucosylation are regulated by the cell recognition molecule L1 via PLCgamma and cooperate to modulate embryonic stem cell survival and proliferation. *FEBS Letters*, **2009**, 583, 703-10	3.8	13
39	A TAG on to the neurogenic functions of APP. *Cell Adhesion and Migration*, **2008**, 2, 2-8	3.2	13
38	The chakragati mouse: a mouse model for rapid in vivo screening of antipsychotic drug candidates. *Biotechnology Journal*, **2007**, 2, 1344-52	5.6	13
37	Aboulia: neurobehavioural dysfunction of dopaminergic system?. *Medical Hypotheses*, **2000**, 54, 523-30	3.8	13
36	Activation of beta- and alpha-2-adrenoceptors in the basolateral amygdala has opposing effects on hippocampal-prefrontal long-term potentiation. *Neurobiology of Learning and Memory*, **2017**, 137, 163-170	3.1	12
35	Evidence of D2 receptor expression in the nucleus incertus of the rat. *Physiology and Behavior*, **2015**, 151, 525-34	3.5	12
34	Electrical microstimulation of the nucleus incertus induces forward locomotion and rotation in rats. *Physiology and Behavior*, **2016**, 160, 50-8	3.5	12
33	NogoR1 and PirB signaling stimulates neural stem cell survival and proliferation. *Stem Cells*, **2014**, 32, 1636-48	5.8	12
32	100-Channel wireless neural recording system with 54-Mb/s data link and 40%-efficiency power link **2012**,		12
31	Propranolol blocks chronic risperidone treatment-induced enhancement of spatial working memory performance of rats in a delayed matching-to-place water maze task. *Psychopharmacology*, **2007**, 191, 297-310	4.7	11
30	Antipsychotic drugs dose-dependently suppress the spontaneous hyperactivity of the chakragati mouse. *Neuroscience*, **2010**, 171, 162-72	3.9	10
29	Pathophysiology and animal models of schizophrenia. *Annals of the Academy of Medicine, Singapore*, **2009**, 38, 425-6	2.8	10
28	Intranasal administration of a stapled relaxin-3 mimetic has anxiolytic- and antidepressant-like activity in rats. *British Journal of Pharmacology*, **2019**, 176, 3899-3923	8.6	9
27	OBscure but not OBsolete: Perturbations of the frontal cortex in common between rodent olfactory bulbectomy model and major depression. *Journal of Chemical Neuroanatomy*, **2018**, 91, 63-100	3.2	9
26	Ginsenoside Rg1 modulates medial prefrontal cortical firing and suppresses the hippocampo-medial prefrontal cortical long-term potentiation. *Journal of Ginseng Research*, **2018**, 42, 298-303	5.8	9

25	The chakragati mouse shows deficits in prepulse inhibition of acoustic startle and latent inhibition. *Neuroscience Research*, **2008**, 60, 281-8	2.9	9
24	Physiological roles of neurite outgrowth inhibitors in myelinated axons of the central nervous system--implications for the therapeutic neutralization of neurite outgrowth inhibitors. *Current Pharmaceutical Design*, **2007**, 13, 2529-37	3.3	9
23	Shared signaling pathways in Alzheimer's and metabolic disease may point to new treatment approaches. *FEBS Journal*, **2021**, 288, 3855-3873	5.7	9
22	Amyloid precursor protein modulates Nav1.6 sodium channel currents through a Go-coupled JNK pathway. *Scientific Reports*, **2016**, 6, 39320	4.9	9
21	Role of constitutive calcium-independent phospholipase A2 beta in hippocampo-prefrontal cortical long term potentiation and spatial working memory. *Neurochemistry International*, **2014**, 78, 96-104	4.4	8
20	Nicotine and clozapine cross-prime the locus coeruleus noradrenergic system to induce long-lasting potentiation in the rat hippocampus. *Hippocampus*, **2013**, 23, 616-24	3.5	8
19	Changes in sensitivity of cholinoceptors and adrenoceptors during transhemispheric cortical reorganisation in rat SmI. *Brain Research*, **2001**, 888, 267-274	3.7	8
18	Efficient derivation of dopaminergic neurons from SOX1? floor plate cells under defined culture conditions. *Journal of Biomedical Science*, **2016**, 23, 34	13.3	6
17	Altered relaxin family receptors RXFP1 and RXFP3 in the neocortex of depressed Alzheimer's disease patients. *Psychopharmacology*, **2016**, 233, 591-8	4.7	6
16	Altered exploration and sensorimotor gating of the chakragati mouse model of schizophrenia. *Behavioral Neuroscience*, **2014**, 128, 460-7	2.1	6
15	Role of phospholipase A(2) in prepulse inhibition of the auditory startle reflex in rats. *Neuroscience Letters*, **2009**, 453, 6-8	3.3	6
14	Theta driving both inhibits and potentiates the effects of nicotine on dentate gyrus responses. *Neuroscience and Behavioral Physiology*, **2007**, 37, 403-9	0.3	6
13	Effects of haloperidol on cognitive function and behavioural flexibility in the IntelliCage social home cage environment. *Behavioural Brain Research*, **2019**, 371, 111976	3.4	5
12	Ultracompact Multielectrode Array for Neurological Monitoring. *Sensors*, **2019**, 19,	3.8	4
11	Endogenous dopamine modulates corticopallidal influences via GABA. *Neuroscience and Behavioral Physiology*, **2003**, 33, 839-44	0.3	4
10	Priming locus coeruleus noradrenergic modulation of medial perforant path-dentate gyrus synaptic plasticity. *Neurobiology of Learning and Memory*, **2017**, 138, 215-225	3.1	3
9	A 0.45V 100-channel neural-recording IC with sub-μW/channel consumption in 0.18μm CMOS **2013**,		3
8	Social defeat-induced Cingulate gyrus immediate-early gene expression and anxiolytic-like effect depend upon social rank. *Brain Research Bulletin*, **2018**, 143, 97-105	3.9	3

7	Wireless sensor microsystems for emerging biomedical applications (Invited) **2015**,		1
6	Lesions of the nucleus basalis magnocellularis do not alter the proportions of pirenzepine- and gallamine-sensitive responses of somatosensory cortical neurones to acetylcholine in the rat. *Brain Research*, **1998**, 782, 324-8	3.7	1
5	Ensheathing the Node of Ranvier?. *Neuron Glia Biology*, **2006**, 2, 149-150		1
4	Test, Rinse, Repeat: A Review of Carryover Effects in Rodent Behavioral Assays.. *Neuroscience and Biobehavioral Reviews*, **2022**, 135, 104560	9	0
3	The putative role of the relaxin-3/RXFP3 system in clinical depression and anxiety: A systematic literature review. *Neuroscience and Biobehavioral Reviews*, **2021**, 131, 429-450	9	0
2	P.3.d.010 Antipsychotic drugs induce dopamine type 2 receptor mediated suppression of neuronal firing in the rat nucleus incertus. *European Neuropsychopharmacology*, **2010**, 20, S502-S503	1.2	
1	Photodynamic Therapy: A Flexi-PEGDA Upconversion Implant for Wireless Brain Photodynamic Therapy (Adv. Mater. 29/2020). *Advanced Materials*, **2020**, 32, 2070219	24	