

# Gavin S. Dawe

## List of Publications by Year in descending order

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98  
papers

3,697  
citations

136740

32  
h-index

143772

57  
g-index

99  
all docs

99  
docs citations

99  
times ranked

5055  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuroprotective effects of hydrogen sulfide on Parkinson's disease rat models. <i>Aging Cell</i> , 2010, 9, 135-146.	3.0	311
2	A TAG1-APP signalling pathway through Fe65 negatively modulates neurogenesis. <i>Nature Cell Biology</i> , 2008, 10, 283-294.	4.6	181
3	Fetal Microchimerism in the Maternal Mouse Brain: A Novel Population of Fetal Progenitor or Stem Cells Able to Cross the Blood-Brain Barrier?. <i>Stem Cells</i> , 2005, 23, 1443-1452.	1.4	150
4	Hydrogen sulphide regulates calcium homeostasis in microglial cells. <i>Glia</i> , 2006, 54, 116-124.	2.5	138
5	Mechanisms of Action and Persistent Neuroplasticity by Drugs of Abuse. <i>Pharmacological Reviews</i> , 2015, 67, 872-1004.	7.1	125
6	Alterations in spatial learning and memory after forced exercise. <i>Brain Research</i> , 2006, 1113, 186-193.	1.1	120
7	NB-3/Notch1 Pathway via Deltex1 Promotes Neural Progenitor Cell Differentiation into Oligodendrocytes. <i>Journal of Biological Chemistry</i> , 2004, 279, 25858-25865.	1.6	119
8	A 0.45 V 100-Channel Neural-Recording IC With Sub- $\mu$ W Channel Consumption in 0.18 $\mu$ m CMOS. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2013, 7, 735-746.	2.7	115
9	Extracellular recordings in the colchicine-lesioned rat dentate gyrus following transplants of fetal dentate gyrus and CA1 hippocampal subfield tissue. <i>Brain Research</i> , 1993, 625, 63-74.	1.1	104
10	A 100-Channel 1-mW Implantable Neural Recording IC. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013, 60, 2584-2596.	3.5	104
11	A role for sorting nexin 27 in AMPA receptor trafficking. <i>Nature Communications</i> , 2014, 5, 3176.	5.8	89
12	Hydrogen sulphide in the hypothalamus causes an ATP-sensitive K <sup>+</sup> channel-dependent decrease in blood pressure in freely moving rats. <i>Neuroscience</i> , 2008, 152, 169-177.	1.1	87
13	Specific Inhibition of p25/Cdk5 Activity by the Cdk5 Inhibitory Peptide Reduces Neurodegeneration <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2013, 33, 334-343.	1.7	87
14	Slow Excitotoxicity in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2013, 35, 643-668.	1.2	82
15	Pregnancy-Associated Progenitor Cells Differentiate and Mature into Neurons in the Maternal Brain. <i>Stem Cells and Development</i> , 2010, 19, 1819-1830.	1.1	79
16	Olanzapine activates the rat locus coeruleus: in vivo electrophysiology and c-Fos immunoreactivity. <i>Biological Psychiatry</i> , 2001, 50, 510-520.	0.7	72
17	Microgel Iron Oxide Nanoparticles for Tracking Human Fetal Mesenchymal Stem Cells Through Magnetic Resonance Imaging. <i>Stem Cells</i> , 2009, 27, 1921-1931.	1.4	71
18	Cell Migration from Baby to Mother. <i>Cell Adhesion and Migration</i> , 2007, 1, 19-27.	1.1	68

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19	Changes in paired-pulse facilitation correlate with induction of long-term potentiation in area CA1 of rat hippocampal slices. <i>Neuroscience</i> , 1996, 76, 829-843.	1.1	58
20	Therapeutic Effect of Hydrogen Sulfide-Releasing L-Dopa Derivative ACS84 on 6-OHDA-Induced Parkinson's Disease Rat Model. <i>PLoS ONE</i> , 2013, 8, e60200.	1.1	56
21	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. <i>Stem Cells</i> , 2008, 26, 580-590.	1.4	50
22	Relaxin™ the brain: a case for targeting the nucleus incertus network and relaxin's/RXFP3 system in neuropsychiatric disorders. <i>British Journal of Pharmacology</i> , 2017, 174, 1061-1076.	2.7	48
23	Nicotine induces long-lasting potentiation in the dentate gyrus of nicotine-primed rats. <i>Neuroscience Research</i> , 1997, 29, 81-85.	1.0	47
24	Expression and localization of the iron's siderophore binding protein lipocalin 2 in the normal rat brain and after kainate-induced excitotoxicity. <i>Neurochemistry International</i> , 2011, 59, 591-599.	1.9	47
25	800's 43's/[radical]Hz neural recording amplifier with enhanced noise efficiency factor. <i>Electronics Letters</i> , 2012, 48, 479.	0.5	47
26	A Flexi's PEGDA Upconversion Implant for Wireless Brain Photodynamic Therapy. <i>Advanced Materials</i> , 2020, 32, 2001459.	11.1	44
27	APP intracellular domain acts as a transcriptional regulator of miR-663 suppressing neuronal differentiation. <i>Cell Death and Disease</i> , 2015, 6, e1651-e1651.	2.7	42
28	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. <i>Bioelectrochemistry</i> , 2000, 52, 23-28.	2.4	41
29	Locus coeruleus stimulation and noradrenergic modulation of hippocampo-prefrontal cortex long-term potentiation. <i>International Journal of Neuropsychopharmacology</i> , 2010, 13, 1219-1231.	1.0	38
30	Ketamine and suicidal ideation in depression: Jumping the gun?. <i>Pharmacological Research</i> , 2015, 99, 23-35.	3.1	38
31	Progesterone Impairs Human Ether-a-go-go-related Gene (HERG) Trafficking by Disruption of Intracellular Cholesterol Homeostasis. <i>Journal of Biological Chemistry</i> , 2011, 286, 22186-22194.	1.6	36
32	A Digitally Assisted, Signal Folding Neural Recording Amplifier. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2014, 8, 528-542.	2.7	35
33	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. <i>Neuroscience Research</i> , 2007, 57, 17-28.	1.0	32
34	Amyloid precursor protein at node of Ranvier modulates nodal formation. <i>Cell Adhesion and Migration</i> , 2014, 8, 396-403.	1.1	29
35	Amyloid Precursor Protein Enhances Nav1.6 Sodium Channel Cell Surface Expression. <i>Journal of Biological Chemistry</i> , 2015, 290, 12048-12057.	1.6	29
36	Cell migration from baby to mother. <i>Cell Adhesion and Migration</i> , 2007, 1, 19-27.	1.1	29

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37	Effect of voluntary running on adult hippocampal neurogenesis in cholinergic lesioned mice. BMC Neuroscience, 2009, 10, 57.	0.8	28
38	Effective Cryopreservation of Neural Stem or Progenitor Cells without Serum or Proteins by Vitrification. Cell Transplantation, 2009, 18, 135-144.	1.2	28
39	(R)-fluoxetine enhances cognitive flexibility and hippocampal cell proliferation in mice. Journal of Psychopharmacology, 2018, 32, 441-457.	2.0	28
40	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.	1.9	28
41	Corticotropin-releasing factor infusion into nucleus incertus suppresses medial prefrontal cortical activity and hippocampal medial prefrontal cortical long-term potentiation. European Journal of Neuroscience, 2013, 38, 2516-2525.	1.2	25
42	Metabolic Profiling of CHO-A $\beta$ 2PP695 Cells Revealed Mitochondrial Dysfunction Prior to Amyloid- $\beta$ 2 Pathology and Potential Therapeutic Effects of Both PPAR $\gamma$ 3 and PPAR $\alpha$ Agonists for Alzheimer's Disease. Journal of Alzheimer's Disease, 2015, 44, 215-231.	1.2	25
43	Cholinergic facilitation and inhibition of long-term potentiation of CA1 in the urethane-anaesthetized rats. Brain Research, 1997, 754, 95-102.	1.1	24
44	APP upregulation contributes to retinal ganglion cell degeneration via JNK3. Cell Death and Differentiation, 2018, 25, 663-678.	5.0	24
45	Inhibitors of the tyrosine kinase signaling cascade attenuated thrombin-induced guinea pig airway smooth muscle cell proliferation. Biochemical and Biophysical Research Communications, 2002, 293, 72-78.	1.0	22
46	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, 573-585.	1.1	22
47	Cell Surface Sialylation and Fucosylation Are Regulated by L1 via Phospholipase C $\beta$ 3 and Cooperate to Modulate Neurite Outgrowth, Cell Survival and Migration. PLoS ONE, 2008, 3, e3841.	1.1	21
48	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.	1.9	21
49	Nucleus incertus contributes to an anxiogenic effect of buspirone in rats: Involvement of 5-HT1A receptors. Neuropharmacology, 2016, 110, 1-14.	2.0	20
50	Central noradrenergic blockade prevents autotomy in rat: implication for pharmacological prevention of postdenervation pain syndrome. Brain Research Bulletin, 2002, 57, 581-586.	1.4	19
51	Shared signaling pathways in Alzheimer's TMs and metabolic disease may point to new treatment approaches. FEBS Journal, 2021, 288, 3855-3873.	2.2	19
52	Cell Migration from Baby to Mother. Cell Adhesion and Migration, 2007, 1, 19-27.	1.1	19
53	Wip1 phosphatase positively modulates dendritic spine morphology and memory processes through the p38MAPK signaling pathway. Cell Adhesion and Migration, 2012, 6, 333-343.	1.1	18
54	100-Channel wireless neural recording system with 54-Mb/s data link and 40%-efficiency power link. , 2012, , .		18

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55	Acute antipsychotic treatments induce distinct c-Fos expression patterns in appetite-related neuronal structures of the rat brain. <i>Brain Research</i> , 2013, 1508, 34-43.	1.1	18
56	Selective lesioning of nucleus incertus with corticotropin releasing factor-saporin conjugate. <i>Brain Research</i> , 2014, 1543, 179-190.	1.1	18
57	Stress activates the nucleus incertus and modulates plasticity in the hippocampo-medial prefrontal cortical pathway. <i>Brain Research Bulletin</i> , 2016, 120, 83-89.	1.4	18
58	Test, rinse, repeat: A review of carryover effects in rodent behavioral assays. <i>Neuroscience and Biobehavioral Reviews</i> , 2022, 135, 104560.	2.9	18
59	Amyloid precursor protein modulates Nav1.6 sodium channel currents through a Go-coupled JNK pathway. <i>Scientific Reports</i> , 2016, 6, 39320.	1.6	17
60	Hydrocarbon stapled B chain analogues of relaxin-3 retain biological activity. <i>Peptides</i> , 2016, 84, 44-57.	1.2	17
61	A 0.45V 100-channel neural-recording IC with sub- $\mu$ W/channel consumption in 0.18 $\mu$ m CMOS. , 2013, , .		16
62	Ginsenoside Rg1 modulates medial prefrontal cortical firing and suppresses the hippocampo-medial prefrontal cortical long-term potentiation. <i>Journal of Ginseng Research</i> , 2018, 42, 298-303.	3.0	16
63	Intranasal administration of a stapled relaxin $\beta$ mimetic has anxiolytic and antidepressant-like activity in rats. <i>British Journal of Pharmacology</i> , 2019, 176, 3899-3923.	2.7	15
64	Aboulia: neurobehavioural dysfunction of dopaminergic system?. <i>Medical Hypotheses</i> , 2000, 54, 523-530.	0.8	14
65	The <i>chakragati</i> mouse: A mouse model for rapid <i>in vivo</i> screening of antipsychotic drug candidates. <i>Biotechnology Journal</i> , 2007, 2, 1344-1352.	1.8	14
66	A TAG on to the neurogenic functions of APP. <i>Cell Adhesion and Migration</i> , 2008, 2, 2-8.	1.1	14
67	Cell surface sialylation and fucosylation are regulated by the cell recognition molecule L1 via PLC $\beta$ 3 and cooperate to modulate embryonic stem cell survival and proliferation. <i>FEBS Letters</i> , 2009, 583, 703-710.	1.3	14
68	Evidence of D2 receptor expression in the nucleus incertus of the rat. <i>Physiology and Behavior</i> , 2015, 151, 525-534.	1.0	14
69	Electrical microstimulation of the nucleus incertus induces forward locomotion and rotation in rats. <i>Physiology and Behavior</i> , 2016, 160, 50-58.	1.0	14
70	Altered relaxin family receptors RXFP1 and RXFP3 in the neocortex of depressed Alzheimer's disease patients. <i>Psychopharmacology</i> , 2016, 233, 591-598.	1.5	14
71	Activation of beta- and alpha-2-adrenoceptors in the basolateral amygdala has opposing effects on hippocampal-prefrontal long-term potentiation. <i>Neurobiology of Learning and Memory</i> , 2017, 137, 163-170.	1.0	14
72	OBscure but not OBsolete: Perturbations of the frontal cortex in common between rodent olfactory bulbectomy model and major depression. <i>Journal of Chemical Neuroanatomy</i> , 2018, 91, 63-100.	1.0	13

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73	NogoR1 and PirB Signaling Stimulates Neural Stem Cell Survival and Proliferation. <i>Stem Cells</i> , 2014, 32, 1636-1648.	1.4	12
74	Effects of haloperidol on cognitive function and behavioural flexibility in the IntelliCage social home cage environment. <i>Behavioural Brain Research</i> , 2019, 371, 111976.	1.2	12
75	Propranolol blocks chronic risperidone treatment-induced enhancement of spatial working memory performance of rats in a delayed matching-to-place water maze task. <i>Psychopharmacology</i> , 2007, 191, 297-310.	1.5	11
76	Antipsychotic drugs dose-dependently suppress the spontaneous hyperactivity of the chakragati mouse. <i>Neuroscience</i> , 2010, 171, 162-172.	1.1	11
77	The chakragati mouse shows deficits in prepulse inhibition of acoustic startle and latent inhibition. <i>Neuroscience Research</i> , 2008, 60, 281-288.	1.0	10
78	Pathophysiology and animal models of schizophrenia. <i>Annals of the Academy of Medicine, Singapore</i> , 2009, 38, 425-6.	0.2	10
79	Physiological Roles of Neurite Outgrowth Inhibitors in Myelinated Axons of the Central Nervous System - Implications for the Therapeutic Neutralization of Neurite Outgrowth Inhibitors. <i>Current Pharmaceutical Design</i> , 2007, 13, 2529-2537.	0.9	9
80	Role of constitutive calcium-independent phospholipase A2 beta in hippocampo-prefrontal cortical long term potentiation and spatial working memory. <i>Neurochemistry International</i> , 2014, 78, 96-104.	1.9	9
81	Changes in sensitivity of cholinceptors and adrenoceptors during transhemispheric cortical reorganisation in rat Sml. <i>Brain Research</i> , 2001, 888, 267-274.	1.1	8
82	Nicotine and clozapine cross-prime the locus coeruleus noradrenergic system to induce long-lasting potentiation in the rat hippocampus. <i>Hippocampus</i> , 2013, 23, 616-624.	0.9	8
83	Altered exploration and sensorimotor gating of the chakragati mouse model of schizophrenia.. <i>Behavioral Neuroscience</i> , 2014, 128, 460-467.	0.6	8
84	Theta driving both inhibits and potentiates the effects of nicotine on dentate gyrus responses. <i>Neuroscience and Behavioral Physiology</i> , 2007, 37, 403-409.	0.2	7
85	Efficient derivation of dopaminergic neurons from SOX1 floor plate cells under defined culture conditions. <i>Journal of Biomedical Science</i> , 2016, 23, 34.	2.6	7
86	Priming locus coeruleus noradrenergic modulation of medial perforant path-dentate gyrus synaptic plasticity. <i>Neurobiology of Learning and Memory</i> , 2017, 138, 215-225.	1.0	7
87	Role of phospholipase A2 in prepulse inhibition of the auditory startle reflex in rats. <i>Neuroscience Letters</i> , 2009, 453, 6-8.	1.0	6
88	Social defeat-induced Cingulate gyrus immediate-early gene expression and anxiolytic-like effect depend upon social rank. <i>Brain Research Bulletin</i> , 2018, 143, 97-105.	1.4	6
89	The putative role of the relaxin-3/RXFP3 system in clinical depression and anxiety: A systematic literature review. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 131, 429-450.	2.9	5
90	Endogenous dopamine modulates corticopallidal influences via GABA. <i>Neuroscience and Behavioral Physiology</i> , 2003, 33, 839-844.	0.2	4

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91	Ultracompact Multielectrode Array for Neurological Monitoring. <i>Sensors</i> , 2019, 19, 2286.	2.1	4
92	Wireless sensor microsystems for emerging biomedical applications (Invited). , 2015, , .		2
93	Photodynamic Therapy: A Flexiâ€”PEGDA Upconversion Implant for Wireless Brain Photodynamic Therapy (Adv. Mater. 29/2020). <i>Advanced Materials</i> , 2020, 32, 2070219.	11.1	2
94	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. <i>Brain Research</i> , 1998, 782, 324-328.	1.1	1
95	Ensheathing the Node of Ranvier?. <i>Neuron Glia Biology</i> , 2006, 2, 149-150.	2.0	1
96	Letter from the Guest Editor. <i>Cell Adhesion and Migration</i> , 2009, 3, 51-52.	1.1	1
97	A microfabricated neural probe with porous si-parylene hybrid structure to enable a reliable brain-machine interface. , 2016, , .		1
98	P.3.d.010 Antipsychotic drugs induce dopamine type 2 receptor mediated suppression of neuronal firing in the rat nucleus incertus. <i>European Neuropsychopharmacology</i> , 2010, 20, S502-S503.	0.3	0