

Andrew D Randall

List of Publications by Year in descending order

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101
papers

7,984
citations

57758

44
h-index

49909

87
g-index

107
all docs

107
docs citations

107
times ranked

8702
citing authors

#	ARTICLE	IF	CITATIONS
1	Vanilloid receptor-1 is essential for inflammatory thermal hyperalgesia. <i>Nature</i> , 2000, 405, 183-187.	27.8	1,590
2	The diversity in the vanilloid (TRPV) receptor family of ion channels. <i>Trends in Pharmacological Sciences</i> , 2002, 23, 183-191.	8.7	458
3	Long-term potentiation of NMDA receptor-mediated synaptic transmission in the hippocampus. <i>Nature</i> , 1991, 349, 156-158.	27.8	357
4	mRNA distribution analysis of human TRPC family in CNS and peripheral tissues. <i>Molecular Brain Research</i> , 2002, 109, 95-104.	2.3	282
5	Cloning and functional expression of a human orthologue of rat vanilloid receptor-1. <i>Pain</i> , 2000, 88, 205-215.	4.2	271
6	Epileptogenesis and Enhanced Prepulse Inhibition in GABAB1-Deficient Mice. <i>Molecular and Cellular Neurosciences</i> , 2001, 17, 1059-1070.	2.2	260
7	Functional expression of a rapidly inactivating neuronal calcium channel. <i>Nature</i> , 1993, 363, 455-458.	27.8	257
8	Effects of piperine, the pungent component of black pepper, at the human vanilloid receptor (TRPV1). <i>British Journal of Pharmacology</i> , 2005, 144, 781-790.	5.4	253
9	Functional dichotomy in spinal- vs prefrontal-projecting locus coeruleus modules splits descending noradrenergic analgesia from ascending aversion and anxiety in rats. <i>ELife</i> , 2017, 6, .	6.0	178
10	Pharmacological reversal of a pain phenotype in iPSC-derived sensory neurons and patients with inherited erythromelalgia. <i>Science Translational Medicine</i> , 2016, 8, 335ra56.	12.4	154
11	Subtype-Selective Small Molecule Inhibitors Reveal a Fundamental Role for Nav1.7 in Nociceptor Electrogenesis, Axonal Conduction and Presynaptic Release. <i>PLoS ONE</i> , 2016, 11, e0152405.	2.5	152
12	Conservation of Functional and Pharmacological Properties in the Distantly Related Temperature Sensors TRPV1 and TRPM8. <i>Molecular Pharmacology</i> , 2005, 68, 518-527.	2.3	148
13	AICA riboside both activates AMP-activated protein kinase and competes with adenosine for the nucleoside transporter in the CA1 region of the rat hippocampus. <i>Journal of Neurochemistry</i> , 2004, 88, 1272-1282.	3.9	131
14	Discovery of SB-705498: A potent, selective and orally bioavailable TRPV1 antagonist suitable for clinical development. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006, 16, 3287-3291.	2.2	125
15	Characterization of a CNS penetrant, selective M ₁ muscarinic receptor agonist, 77a. <i>British Journal of Pharmacology</i> , 2008, 154, 1104-1115.	5.4	118
16	Cloning and Functional Expression of Human Short TRP7, a Candidate Protein for Store-operated Ca ²⁺ Influx. <i>Journal of Biological Chemistry</i> , 2002, 277, 12302-12309.	3.4	109
17	Characterization of SB-705498, a Potent and Selective Vanilloid Receptor-1 (VR1/TRPV1) Antagonist That Inhibits the Capsaicin-, Acid-, and Heat-Mediated Activation of the Receptor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 321, 1183-1192.	2.5	98
18	The Metabotropic Glutamate Receptor 7 Allosteric Modulator AMN082: A Monoaminergic Agent in Disguise?. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 338, 345-352.	2.5	96

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19	Voltage- and time-dependent properties of the recombinant rat vanilloid receptor (rVR1). <i>Journal of Physiology</i> , 2000, 525, 747-759.	2.9	93
20	Characterisation using FLIPR of human vanilloid VR1 receptor pharmacology. <i>European Journal of Pharmacology</i> , 2001, 417, 51-58.	3.5	90
21	Altered intrinsic neuronal excitability and reduced Na ⁺ currents in a mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2011, 32, 2109.e1-2109.e14.	3.1	88
22	Cloning, localisation and functional expression of a novel human, cerebellum specific, two pore domain potassium channel. <i>Molecular Brain Research</i> , 2000, 82, 74-83.	2.3	86
23	Altered Intrinsic Pyramidal Neuron Properties and Pathway-Specific Synaptic Dysfunction Underlie Aberrant Hippocampal Network Function in a Mouse Model of Tauopathy. <i>Journal of Neuroscience</i> , 2016, 36, 350-363.	3.6	82
24	Recent Advances in the Molecular Understanding of Voltage-Gated Ca ²⁺ Channels. <i>Molecular and Cellular Neurosciences</i> , 1999, 14, 255-272.	2.2	80
25	Sodium Channel Cleavage Is Associated with Aberrant Neuronal Activity and Cognitive Deficits in a Mouse Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2013, 33, 7020-7026.	3.6	80
26	TRPM2 Is Elevated in the tMCAO Stroke Model, Transcriptionally Regulated, and Functionally Expressed in C13 Microglia. <i>Journal of Receptor and Signal Transduction Research</i> , 2006, 26, 179-198.	2.5	72
27	Disrupted hippocampal sharp-wave ripple-associated spike dynamics in a transgenic mouse model of dementia. <i>Journal of Physiology</i> , 2016, 594, 4615-4630.	2.9	70
28	Gabapentin fails to alter P/Q-type Ca ²⁺ channel-mediated synaptic transmission in the hippocampus in vitro. <i>Synapse</i> , 2005, 55, 262-269.	1.2	68
29	Old and New Pharmacology: Positive Allosteric Modulation of the $\alpha 7$ Nicotinic Acetylcholine Receptor by the 5-Hydroxytryptamine _{2B/C} Receptor Antagonist SB-206553 (3,5-Dihydro-5-methyl-N-3-pyridinylbenzo[1,2-b:4,5-b']diazole) Tj ETQq1 1 0.784314 rgBT / Overlock 10 Tf 50 337 Tj 766-776.		
30	Discovery of small molecule antagonists of TRPV1. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 3631-3634.	2.2	66
31	Forced cell cycle exit and modulation of GABA _A , CREB, and GSK3 ^β signaling promote functional maturation of induced pluripotent stem cell-derived neurons. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 310, C520-C541.	4.6	66
32	TRPV1 antagonist, SB-366791, inhibits glutamatergic synaptic transmission in rat spinal dorsal horn following peripheral inflammation. <i>European Journal of Pharmacology</i> , 2006, 540, 73-81.	3.5	63
33	Synaptic activation of GABAB receptors regulates neuronal network activity and entrainment. <i>European Journal of Neuroscience</i> , 2007, 25, 2982-2990.	2.6	62
34	Activity-dependent depression of the spike afterdepolarization generates long-lasting intrinsic plasticity in hippocampal CA3 pyramidal neurons. <i>Journal of Physiology</i> , 2009, 587, 1265-1281.	2.9	62
35	Altered Synapse Stability in the Early Stages of Tauopathy. <i>Cell Reports</i> , 2017, 18, 3063-3068.	6.4	62
36	Functionalized α -Helical Peptide Hydrogels for Neural Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 431-439.	5.2	59

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37	The functional neurophysiology of the amyloid precursor protein (APP) processing pathway. <i>Neuropharmacology</i> , 2010, 59, 243-267.	4.1	56
38	Characterisation of recombinant rat TRPM2 and a TRPM2-like conductance in cultured rat striatal neurones. <i>Neuropharmacology</i> , 2006, 50, 89-97.	4.1	54
39	Actions of sipatrigine, 202W92 and lamotrigine on R-type and T-type Ca ²⁺ channel currents. <i>European Journal of Pharmacology</i> , 2003, 467, 77-80.	3.5	53
40	A New Player in the "Synaptopathy" of Alzheimer's Disease " Arc/Arg 3.1. <i>Frontiers in Neurology</i> , 2013, 4, 9.	2.4	50
41	Improving and accelerating the differentiation and functional maturation of human stem cell-derived neurons: role of extracellular calcium and GABA. <i>Journal of Physiology</i> , 2016, 594, 6583-6594.	2.9	50
42	Intrinsic excitability changes induced by acute treatment of hippocampal CA1 pyramidal neurons with exogenous amyloid β peptide. <i>Hippocampus</i> , 2015, 25, 786-797.	1.9	49
43	Electrical and Network Neuronal Properties Are Preferentially Disrupted in Dorsal, But Not Ventral, Medial Entorhinal Cortex in a Mouse Model of Tauopathy. <i>Journal of Neuroscience</i> , 2016, 36, 312-324.	3.6	49
44	Chapter 6 Neuronal calcium channels encoded by the β 1A subunit and their contribution to excitatory synaptic transmission in the CNS. <i>Progress in Brain Research</i> , 1995, 105, 65-78.	1.4	47
45	Characterization of the human HCN1 channel and its inhibition by capsazepine. <i>British Journal of Pharmacology</i> , 2004, 143, 411-421.	5.4	47
46	Long-term culture of pluripotent stem-cell-derived human neurons on diamond " A substrate for neurodegeneration research and therapy. <i>Biomaterials</i> , 2015, 61, 139-149.	11.4	47
47	Altered intrinsic excitability of hippocampal CA1 pyramidal neurons in aged PDAPP mice. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 372.	3.7	46
48	Transcriptional Signatures of Tau and Amyloid Neuropathology. <i>Cell Reports</i> , 2020, 30, 2040-2054.e5.	6.4	45
49	Characterization of altered intrinsic excitability in hippocampal CA1 pyramidal cells of the β 2-overproducing PDAPP mouse. <i>Neuropharmacology</i> , 2014, 79, 515-524.	4.1	44
50	The GABAB2 subunit is critical for the trafficking and function of native GABAB receptors. <i>Biochemical Pharmacology</i> , 2004, 68, 1655-1666.	4.4	41
51	Minocycline reduces microgliosis and improves subcortical white matter function in a model of cerebral vascular disease. <i>Glia</i> , 2018, 66, 34-46.	4.9	40
52	4-dimensional functional profiling in the convulsant-treated larval zebrafish brain. <i>Scientific Reports</i> , 2017, 7, 6581.	3.3	39
53	Voltage- and Temperature-Dependent Allosteric Modulation of β 7 Nicotinic Receptors by PNU120596. <i>Frontiers in Pharmacology</i> , 2011, 2, 81.	3.5	37
54	Inhibition of β 1E Ca ²⁺ Channels by Carbonic Anhydrase Inhibitors. <i>Journal of Pharmacological Sciences</i> , 2004, 95, 240-247.	2.5	36

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55	Low Concentrations of the Solvent Dimethyl Sulphoxide Alter Intrinsic Excitability Properties of Cortical and Hippocampal Pyramidal Cells. <i>PLoS ONE</i> , 2014, 9, e92557.	2.5	36
56	Synaptic transmission and synchronous activity is disrupted in hippocampal slices taken from aged TAS10 mice. <i>Hippocampus</i> , 2005, 15, 110-117.	1.9	34
57	Receptor-Mediated Suppression of Potassium Currents Requires Colocalization within Lipid Rafts. <i>Molecular Pharmacology</i> , 2009, 76, 1279-1289.	2.3	34
58	A unified model of CA1/3 pyramidal cells: An investigation into excitability. <i>Progress in Biophysics and Molecular Biology</i> , 2011, 105, 34-48.	2.9	34
59	Altered functional brain network connectivity and glutamate system function in transgenic mice expressing truncated Disrupted-in-Schizophrenia 1. <i>Translational Psychiatry</i> , 2015, 5, e569-e569.	4.8	34
60	Modulation of hippocampal excitability by 5-HT4 receptor agonists persists in a transgenic model of Alzheimer's disease. <i>Neuroscience</i> , 2004, 129, 49-54.	2.3	33
61	Age-related changes to Na ⁺ channel gating contribute to modified intrinsic neuronal excitability. <i>Neurobiology of Aging</i> , 2012, 33, 2715-2720.	3.1	33
62	Inhibition of Post-Synaptic Kv7/KCNQ/M Channels Facilitates Long-Term Potentiation in the Hippocampus. <i>PLoS ONE</i> , 2012, 7, e30402.	2.5	32
63	Hippocampal circuit dysfunction in the Tc1 mouse model of Down syndrome. <i>Nature Neuroscience</i> , 2015, 18, 1291-1298.	14.8	32
64	Secretions from placenta, after hypoxia/reoxygenation, can damage developing neurones of brain under experimental conditions. <i>Experimental Neurology</i> , 2014, 261, 386-395.	4.1	29
65	Altered synaptic plasticity in the mossy fibre pathway of transgenic mice expressing mutant amyloid precursor protein. <i>Molecular Brain</i> , 2010, 3, 32.	2.6	28
66	Mechanisms contributing to the exacerbated epileptiform activity in hippocampal slices of GABAB1 receptor subunit knockout mice. <i>Epilepsy Research</i> , 2003, 57, 121-136.	1.6	27
67	Neurophysiological modification of CA1 pyramidal neurons in a transgenic mouse expressing a truncated form of disrupted-in-schizophrenia 1. <i>European Journal of Neuroscience</i> , 2014, 39, 1074-1090.	2.6	27
68	Hippocampal neurophysiology is modified by a disease-associated C-terminal fragment of tau protein. <i>Neurobiology of Aging</i> , 2017, 60, 44-56.	3.1	26
69	Detection of A β plaque-associated astrogliosis in Alzheimer's disease brain by spectroscopic imaging and immunohistochemistry. <i>Analyst</i> , 2018, 143, 850-857.	3.5	26
70	A pharmacological investigation of the role of GLUK5-containing receptors in kainate-driven hippocampal gamma band oscillations. <i>Neuropharmacology</i> , 2006, 50, 47-56.	4.1	21
71	11 Distinctive properties of a neuronal calcium channel and its contribution to excitatory synaptic transmission in the central nervous system. <i>Advances in Second Messenger and Phosphoprotein Research</i> , 1994, 29, 155-171.	4.5	21
72	Voltage- and temperature-dependent gating of heterologously expressed channelrhodopsin-2. <i>Journal of Neuroscience Methods</i> , 2010, 193, 7-13.	2.5	20

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73	Impaired speed encoding and grid cell periodicity in a mouse model of tauopathy. <i>ELife</i> , 2020, 9, .	6.0	20
74	A monolayer hiPSC culture system for autophagy/mitophagy studies in human dopaminergic neurons. <i>Autophagy</i> , 2021, 17, 855-871.	9.1	17
75	Functional brain imaging in larval zebrafish for characterising the effects of seizurogenic compounds acting via a range of pharmacological mechanisms. <i>British Journal of Pharmacology</i> , 2021, 178, 2671-2689.	5.4	16
76	Contribution of postsynaptic T-type calcium channels to parallel fibre-Purkinje cell synaptic responses. <i>Journal of Physiology</i> , 2016, 594, 915-936.	2.9	15
77	<i>In vitro</i> characterization of cell-level neurophysiological diversity in the rostral nucleus reuniens of adult mice. <i>Journal of Physiology</i> , 2017, 595, 3549-3572.	2.9	15
78	Imbalance in the response of pre- and post-synaptic components to amyloidopathy. <i>Scientific Reports</i> , 2019, 9, 14837.	3.3	15
79	Initiation and slow propagation of epileptiform activity from ventral to dorsal medial entorhinal cortex is constrained by an inhibitory gradient. <i>Journal of Physiology</i> , 2018, 596, 2251-2266.	2.9	14
80	Complex interactions between mGluR1 and mGluR5 shape neuronal network activity in the rat hippocampus. <i>Neuropharmacology</i> , 2002, 43, 131-140.	4.1	13
81	KCNQ/Kv7 Channel Regulation of Hippocampal Gamma-Frequency Firing in the Absence of Synaptic Transmission. <i>Journal of Neurophysiology</i> , 2006, 95, 3105-3112.	1.8	13
82	Kv7 channels are upregulated during striatal neuron development and promote maturation of human iPSC-derived neurons. <i>Pflugers Archiv European Journal of Physiology</i> , 2018, 470, 1359-1376.	2.8	13
83	Inhibition of Ih reduces epileptiform activity in rodent hippocampal slices. <i>Synapse</i> , 2006, 59, 308-316.	1.2	11
84	Disrupted in schizophrenia 1 and synaptic function in the mammalian central nervous system. <i>European Journal of Neuroscience</i> , 2014, 39, 1068-1073.	2.6	11
85	Sex-associated differences in excitability within the bed nucleus of the stria terminalis are reflective of cell-type. <i>Neurobiology of Stress</i> , 2019, 10, 100143.	4.0	10
86	Modulation of the deactivation kinetics of a recombinant rat T-type Ca ²⁺ channel by prior inactivation. <i>Neuroscience Letters</i> , 2000, 293, 216-220.	2.1	9
87	Mechanisms contributing to the exacerbated epileptiform activity in hippocampal slices expressing a C-terminal truncated GABAB2 receptor subunit. <i>Epilepsy Research</i> , 2005, 65, 41-51.	1.6	9
88	Metabotropic glutamate receptor 1 activity generates persistent, N-methyl-D-aspartate receptor-dependent depression of hippocampal pyramidal cell excitability. <i>European Journal of Neuroscience</i> , 2009, 29, 2347-2362.	2.6	8
89	Muscarinic Receptor-Dependent Long Term Depression in the Perirhinal Cortex and Recognition Memory are Impaired in the rTg4510 Mouse Model of Tauopathy. <i>Neurochemical Research</i> , 2019, 44, 617-626.	3.3	8
90	The induction of long-term plasticity of non-synaptic, synchronized activity by the activation of group I mGluRs. <i>Neuropharmacology</i> , 2008, 55, 459-463.	4.1	7

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91	Synaptic activation of mGluR1 generates persistent depression of a fast after-depolarizing potential in CA3 pyramidal neurons. <i>European Journal of Neuroscience</i> , 2011, 33, 879-889.	2.6	7
92	Properties of voltage-gated Na ⁺ channels in the human rhabdomyosarcoma cell-line SJ-RH30: Conventional and automated patch clamp analysis. <i>Pharmacological Research</i> , 2006, 54, 118-128.	7.1	6
93	Are stem cell-derived neural cells physiologically credible?. <i>Journal of Physiology</i> , 2016, 594, 6569-6572.	2.9	6
94	Ageing-Associated Changes to Intrinsic Neuronal Excitability in the Bed Nucleus of the Stria Terminalis Is Cell Type-Dependent. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 424.	3.4	6
95	Differential aging-related changes in neurophysiology and gene expression in IB4-positive and IB4-negative nociceptive neurons. <i>Aging Cell</i> , 2018, 17, e12795.	6.7	6
96	Neurophysiological alterations in the nucleus reuniens of a mouse model of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2020, 88, 1-10.	3.1	5
97	Differential Electrographic Signatures Generated by Mechanistically-Diverse Seizurogenic Compounds in the Larval Zebrafish Brain. <i>ENeuro</i> , 2022, 9, ENEURO.0337-21.2022.	1.9	4
98	Potent inhibition of a recombinant low voltage-activated Ca ²⁺ channel by SB-209712. <i>European Journal of Pharmacology</i> , 2000, 407, 53-60.	3.5	2
99	Whole-Cell Patch-Clamp Recording of Voltage-Sensitive Ca ²⁺ Channel Currents in Single Cells: Heterologous Expression Systems and Neurones. <i>Methods in Molecular Biology</i> , 2013, 937, 123-148.	0.9	1
100	Introduction to the special issue on Alzheimer's disease. <i>Neuropharmacology</i> , 2010, 59, 219-220.	4.1	0
101	Physiology 2015: What I am most looking forward to. , 2015, , 17-18.		0