Dax A Hoffman

List of Publications by Year
in descending order

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60 papers	6,212 citations	147801 31 h-index	128289 60 g-index
62 all docs	62 docs citations	62 times ranked	5519 citing authors

#	Article	IF	Citations
1	K+ channel regulation of signal propagation in dendrites of hippocampal pyramidal neurons. Nature, 1997, 387, 869-875.	27.8	1,238
2	Human endogenous retrovirus-K contributes to motor neuron disease. Science Translational Medicine, 2015, 7, 307ra153.	12.4	369
3	Downregulation of Transient K⁺Channels in Dendrites of Hippocampal CA1 Pyramidal Neurons by Activation of PKA and PKC. Journal of Neuroscience, 1998, 18, 3521-3528.	3.6	350
4	Role of an A-type K+ conductance in the back-propagation of action potentials in the dendrites of hippocampal pyramidal neurons. Journal of Computational Neuroscience, 1999, 7, 5-15.	1.0	307
5	Regulation of Dendritic Excitability by Activity-Dependent Trafficking of the A-Type K+ Channel Subunit Kv4.2 in Hippocampal Neurons. Neuron, 2007, 54, 933-947.	8.1	299
6	ELECTRICAL AND CALCIUM SIGNALING IN DENDRITES OF HIPPOCAMPAL PYRAMIDAL NEURONS. Annual Review of Physiology, 1998, 60, 327-346.	13.1	267
7	Dendritic K+ channels contribute to spike-timing dependent long-term potentiation in hippocampal pyramidal neurons. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8366-8371.	7.1	267
8	Dendritic potassium channels in hippocampal pyramidal neurons. Journal of Physiology, 2000, 525, 75-81.	2.9	246
9	Slow Recovery from Inactivation of Na⁺Channels Underlies the Activity-Dependent Attenuation of Dendritic Action Potentials in Hippocampal CA1 Pyramidal Neurons. Journal of Neuroscience, 1997, 17, 6512-6521.	3.6	242
10	Kv4 potassium channel subunits control action potential repolarization and frequency-dependent broadening in rat hippocampal CA1 pyramidal neurones. Journal of Physiology, 2005, 569, 41-57.	2.9	242
11	Active dendrites, potassium channels and synaptic plasticity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2003, 358, 667-674.	4.0	226
12	Molecular dissection of hippocampal theta-burst pairing potentiation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7740-7745.	7.1	162
13	Neuregulin-1 Reverses Long-Term Potentiation at CA1 Hippocampal Synapses. Journal of Neuroscience, 2005, 25, 9378-9383.	3.6	161
14	Regulation of back-propagating action potentials in hippocampal neurons. Current Opinion in Neurobiology, 1999, 9, 288-292.	4.2	149
15	Neuromodulation of Dendritic Action Potentials. Journal of Neurophysiology, 1999, 81, 408-411.	1.8	140
16	Tau-Dependent Kv4.2 Depletion and Dendritic Hyperexcitability in a Mouse Model of Alzheimer's Disease. Journal of Neuroscience, 2015, 35, 6221-6230.	3.6	126
17	Dendritic ion channel trafficking and plasticity. Trends in Neurosciences, 2010, 33, 307-316.	8.6	121
18	A Novel Point Mutation in the KCNJ5 Gene Causing Primary Hyperaldosteronism and Early-Onset Autosomal Dominant Hypertension. Journal of Clinical Endocrinology and Metabolism, 2012, 97, E1532-E1539.	3.6	116

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19	DPP6 Establishes the A-Type K+ Current Gradient Critical for the Regulation of Dendritic Excitability in CA1 Hippocampal Neurons. Neuron, 2011, 71, 1102-1115.	8.1	94
20	Rapid, Bidirectional Remodeling of Synaptic NMDA Receptor Subunit Composition by A-type K+ Channel Activity in Hippocampal CA1 Pyramidal Neurons. Neuron, 2008, 60, 657-671.	8.1	88
21	Potassium Channels: Newly Found Players in Synaptic Plasticity. Neuroscientist, 2008, 14, 276-286.	3.5	78
22	Protein Kinase A Mediates Activity-Dependent Kv4.2 Channel Trafficking. Journal of Neuroscience, 2008, 28, 7513-7519.	3.6	77
23	Kv4 Accessory Protein DPPX (DPP6) is a Critical Regulator of Membrane Excitability in Hippocampal CA1 Pyramidal Neurons. Journal of Neurophysiology, 2008, 100, 1835-1847.	1.8	63
24	Idiopathic Autism: Cellular and Molecular Phenotypes in Pluripotent Stem Cell-Derived Neurons. Molecular Neurobiology, 2017, 54, 4507-4523.	4.0	57
25	Biphasic Somatic A-Type K+ Channel Downregulation Mediates Intrinsic Plasticity in Hippocampal CA1 Pyramidal Neurons. PLoS ONE, 2009, 4, e6549.	2.5	50
26	KChIP4a regulates Kv4.2 channel trafficking through PKA phosphorylation. Molecular and Cellular Neurosciences, 2010, 43, 315-325.	2.2	49
27	AKAP79/150 Impacts Intrinsic Excitability of Hippocampal Neurons through Phospho-Regulation of A-type K⁺Channel Trafficking. Journal of Neuroscience, 2011, 31, 1323-1332.	3.6	47
28	Synaptic plasticity by antidromic firing during hippocampal network oscillations. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5175-5180.	7.1	46
29	KCNJ5 mutations in the National Institutes of Health cohort of patients with primary hyperaldosteronism: an infrequent genetic cause of Conn's syndrome. Endocrine-Related Cancer, 2012, 19, 255-260.	3.1	38
30	Neuronal co-expression of EGFP and Î²-galactosidase in mice causes neuropathology and premature death. Neurobiology of Disease, 2004, 17, 310-318.	4.4	37
31	DPP6 regulation of dendritic morphogenesis impacts hippocampal synaptic development. Nature Communications, 2013, 4, 2270.	12.8	33
32	DPP6 Domains Responsible for Its Localization and Function. Journal of Biological Chemistry, 2014, 289, 32153-32165.	3.4	30
33	Matrix Metalloproteinase-9 Regulates Neuronal Circuit Development and Excitability. Molecular Neurobiology, 2016, 53, 3477-3493.	4.0	30
34	DPP6 Loss Impacts Hippocampal Synaptic Development and Induces Behavioral Impairments in Recognition, Learning and Memory. Frontiers in Cellular Neuroscience, 2018, 12, 84.	3.7	28
35	Activity-dependent isomerization of Kv4.2 by Pin1 regulates cognitive flexibility. Nature Communications, 2020, 11, 1567.	12.8	28
36	Loss of Signal Transducer and Activator of Transcription 3 (STAT3) Signaling during Elevated Activity Causes Vulnerability in Hippocampal Neurons. Journal of Neuroscience, 2012, 32, 15511-15520.	3.6	26

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37	Derivation of Neural Stem Cells from Human Adult Peripheral CD34+ Cells for an Autologous Model of Neuroinflammation. PLoS ONE, 2013, 8, e81720.	2.5	26
38	A Kinase Anchor Protein 150 (AKAP150)-associated Protein Kinase A Limits Dendritic Spine Density. Journal of Biological Chemistry, 2011, 286, 26496-26506.	3.4	24
39	FRMPD4 mutations cause X-linked intellectual disability and disrupt dendritic spine morphogenesis. Human Molecular Genetics, 2018, 27, 589-600.	2.9	20
40	Repeated cocaine exposure increases fast-spiking interneuron excitability in the rat medial prefrontal cortex. Journal of Neurophysiology, 2013, 109, 2781-2792.	1.8	19
41	Disruption of GpI mGluR-Dependent Cav2.3 Translation in a Mouse Model of Fragile X Syndrome. Journal of Neuroscience, 2019, 39, 7453-7464.	3.6	19
42	Dynamic Regulation of Synaptic Maturation State by Voltage-Gated A-Type K+ Channels in CA1 Hippocampal Pyramidal Neurons. Journal of Neuroscience, 2012, 32, 14427-14432.	3.6	18
43	Aberrant Dendritic Excitability: A Common Pathophysiology in CNS Disorders Affecting Memory?. Molecular Neurobiology, 2012, 45, 478-487.	4.0	18
44	Neuregulins and Neuronal Plasticity: Possible Relevance in Schizophrenia. Novartis Foundation Symposium, 2008, 289, 165-179.	1.1	18
45	Differential cycling rates of Kv4.2 channels in proximal and distal dendrites of hippocampal CA1 pyramidal neurons. Hippocampus, 2012, 22, 969-980.	1.9	17
46	Functional characterization of two novel germline mutations of the <scp>KCNJ</scp>5 gene in hypertensive patients without primary aldosteronism but with <scp>ACTH</scp>â€dependent aldosterone hypersecretion. Clinical Endocrinology, 2016, 85, 845-851.	2.4	15
47	Functional Coupling of Cav2.3 and BK Potassium Channels Regulates Action Potential Repolarization and Short-Term Plasticity in the Mouse Hippocampus. Frontiers in Cellular Neuroscience, 2019, 13, 27.	3.7	15
48	Potassium Channels and Dendritic Function in Hippocampal Pyramidal Neurons. Epilepsia, 2000, 41, 1072-1073.	5.1	11
49	Kv4.2 block of long-term potentiation is partially dependent on synaptic NMDA receptor remodeling. Brain Research Bulletin, 2011, 84, 17-21.	3.0	9
50	Effects of genetic deletion of the Kv4.2 voltage-gated potassium channel on murine anxiety-, fear- and stress-related behaviors. Biology of Mood & Anxiety Disorders, 2012, 2, 5.	4.7	9
51	R-type voltage-gated Ca2+ channels mediate A-type K+ current regulation of synaptic input in hippocampal dendrites. Cell Reports, 2022, 38, 110264.	6.4	9
52	P38 Regulates Kainic Acid-Induced Seizure and Neuronal Firing via Kv4.2 Phosphorylation. International Journal of Molecular Sciences, 2020, 21, 5921.	4.1	8
53	A polybasic motif in alternatively spliced KChIP2 isoforms prevents Ca2+ regulation of Kv4 channels. Journal of Biological Chemistry, 2019, 294, 3683-3695.	3.4	6
54	A novel structure associated with aging is augmented in the DPP6-KO mouse brain. Acta Neuropathologica Communications, 2020, 8, 197.	5.2	5

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55	K+ Channel Regulation of Multicompartmental Signal Integration. Neuron, 2013, 79, 403-405.	8.1	4
56	Cushing Syndrome in a Pediatric Patient With a KCNJ5 Variant and Successful Treatment With Low-dose Ketoconazole. Journal of Clinical Endocrinology and Metabolism, 2021, 106, 1606-1616.	3.6	4
57	Paradoxical relationships between active transport and global protein distributions in neurons. Biophysical Journal, 2021, 120, 2085-2101.	0.5	4
58	A novel bungarotoxin binding site-tagged construct reveals MAPK-dependent Kv4.2 trafficking. Molecular and Cellular Neurosciences, 2019, 98, 121-130.	2.2	3
59	Firing first: compensatory changes in K⁺ channel knockout mice preserve excitability but not synaptic scaling. Journal of Physiology, 2008, 586, 3731-3732.	2.9	1
60	Editorial. Brain Research Bulletin, 2014, 103, 1.	3.0	0