Steven Petrou

List of Publications by Year
in descending order

172	11,519	25034	33894
papers	citations	57 h-index	99 g-index

178	178	178	11969
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mutant GABAA receptor Î³2-subunit in childhood absence epilepsy and febrile seizures. Nature Genetics, 2001, 28, 49-52.	21.4	721
2	Truncation of the GABAA-Receptor Î³2 Subunit in a Family with Generalized Epilepsy with Febrile Seizures Plus. American Journal of Human Genetics, 2002, 70, 530-536.	6.2	425
3	Missense mutations in the sodium-gated potassium channel gene KCNT1 cause severe autosomal dominant nocturnal frontal lobe epilepsy. Nature Genetics, 2012, 44, 1188-1190.	21.4	333
4	SCN1Amutations and epilepsy. Human Mutation, 2005, 25, 535-542.	2.5	327
5	GABRD encoding a protein for extra- or peri-synaptic GABAA receptors is a susceptibility locus for generalized epilepsies. Human Molecular Genetics, 2004, 13, 1315-1319.	2.9	299
6	A Glu-496 to Ala Polymorphism Leads to Loss of Function of the Human P2X7 Receptor. Journal of Biological Chemistry, 2001, 276, 11135-11142.	3.4	276
7	KCNT1 gain of function in 2 epilepsy phenotypes is reversed by quinidine. Annals of Neurology, 2014, 75, 581-590.	5.3	249
8	Title is missing!. Nature Genetics, 2001, 28, 49-52.	21.4	247
9	A recurrent de novo mutation in KCNC1 causes progressive myoclonus epilepsy. Nature Genetics, 2015, 47, 39-46.	21.4	245
10	Sequencing studies in human genetics: design and interpretation. Nature Reviews Genetics, 2013, 14, 460-470.	16.3	236
11	Temporal lobe epilepsy and GEFS+ phenotypes associated with SCN1B mutations. Brain, 2006, 130, 100-109.	7.6	234
12	Ion Channels in Genetic Epilepsy: From Genes and Mechanisms to Disease-Targeted Therapies. Pharmacological Reviews, 2018, 70, 142-173.	16.0	215
13	Progress in Understanding and Treating SCN2A-Mediated Disorders. Trends in Neurosciences, 2018, 41, 442-456.	8.6	210
14	Reduced cortical inhibition in a mouse model of familial childhood absence epilepsy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17536-17541.	7.1	192
15	Human epilepsies: interaction of genetic and acquired factors. Trends in Neurosciences, 2006, 29, 391-397.	8.6	190
16	Ultra-rare genetic variation in common epilepsies: a case-control sequencing study. Lancet Neurology, The, 2017, 16, 135-143.	10.2	190
17	Mechanisms of human inherited epilepsies. Progress in Neurobiology, 2009, 87, 41-57.	5.7	185
18	Quinidine in the treatment of <scp>KCNT</scp>1â€positive epilepsies. Annals of Neurology, 2015, 78, 995-999.	5.3	184

#	Article	IF	Citations
19	Mutations in the GABA Transporter SLC6A1 Cause Epilepsy with Myoclonic-Atonic Seizures. American Journal of Human Genetics, 2015, 96, 808-815.	6.2	173
20	A variant of <scp>KCC</scp> 2 from patients with febrile seizures impairs neuronal Cl ^{â˜’} extrusion and dendritic spine formation. EMBO Reports, 2014, 15, 723-729.	4.5	163
21	Molecular correlates of age-dependent seizures in an inherited neonatal-infantile epilepsy. Brain, 2010, 133, 1403-1414.	7.6	157
22	An Ile-568 to Asn Polymorphism Prevents Normal Trafficking and Function of the Human P2X7 Receptor. Journal of Biological Chemistry, 2003, 278, 17108-17113.	3.4	154
23	P2X7 Receptor Cell Surface Expression and Cytolytic Pore Formation Are Regulated by a Distal C-terminal Region. Journal of Biological Chemistry, 2003, 278, 8853-8860.	3.4	153
24	Channelopathies as a genetic cause of epilepsy. Current Opinion in Neurology, 2003, 16, 171-176.	3.6	153
25	A Thr357 to Ser Polymorphism in Homozygous and Compound Heterozygous Subjects Causes Absent or Reduced P2X7 Function and Impairs ATP-induced Mycobacterial Killing by Macrophages. Journal of Biological Chemistry, 2006, 281, 2079-2086.	3.4	152
26	An Arg307 to Gln Polymorphism within the ATP-binding Site Causes Loss of Function of the Human P2X7 Receptor. Journal of Biological Chemistry, 2004, 279, 31287-31295.	3.4	125
27	Glucose transporter 1 deficiency in the idiopathic generalized epilepsies. Annals of Neurology, 2012, 72, 807-815.	5.3	123
28	Non-Neurotoxic Nanodiamond Probes for Intraneuronal Temperature Mapping. ACS Nano, 2017, 11, 12077-12086.	14.6	113
29	Precision therapy for epilepsy due to KCNT1 mutations. Neurology, 2018, 90, e67-e72.	1.1	108
30	Sodium channels and the neurobiology of epilepsy. Epilepsia, 2012, 53, 1849-1859.	5.1	105
31	Selective Na _V 1.1 activation rescues Dravet syndrome mice from seizures and premature death. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8077-E8085.	7.1	105
32	Altered kinetics and benzodiazepine sensitivity of a GABAA receptor subunit mutation [Â2(R43Q)] found in human epilepsy. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15170-15175.	7.1	104
33	Abnormal Cell Sorting Underlies the Unique X-Linked Inheritance of PCDH19 Epilepsy. Neuron, 2018, 97, 59-66.e5.	8.1	100
34	Interleukin-1 Receptor in Seizure Susceptibility after Traumatic Injury to the Pediatric Brain. Journal of Neuroscience, 2017, 37, 7864-7877.	3.6	97
35	Augmented currents of an HCN2 variant in patients with febrile seizure syndromes. Annals of Neurology, 2010, 67, 542-546.	5.3	96
36	A putative fatty acid-binding domain of the NMDA receptor. Trends in Biochemical Sciences, 1993, 18, 41-42.	7.5	91

#	Article	IF	Citations
37	Clinical and molecular characterization of KCNT1 -related severe early-onset epilepsy. Neurology, 2018, 90, e55-e66.	1.1	89
38	P2X7 purinoceptor expression inXenopusoocytes is not sufficient to produce a pore-forming P2Z-like phenotype. FEBS Letters, 1997, 411, 339-345.	2.8	88
39	Segmentation of the mouse hippocampal formation in magnetic resonance images. NeuroImage, 2011, 58, 732-740.	4.2	88
40	A Cas9 Variant for Efficient Generation of Indel-Free Knockin or Gene-Corrected Human Pluripotent Stem Cells. Stem Cell Reports, 2016, 7, 508-517.	4.8	88
41	Channelopathies as a genetic cause of epilepsy. Current Opinion in Neurology, 2003, 16, 171-176.	3.6	82
42	P2X7 Is a Scavenger Receptor for Apoptotic Cells in the Absence of Its Ligand, Extracellular ATP. Journal of Immunology, 2011, 187, 2365-2375.	0.8	81
43	Axon initial segment dysfunction in epilepsy. Journal of Physiology, 2010, 588, 1829-1840.	2.9	80
44	The Mechanism of Carbamazepine Aggravation of Absence Seizures. Journal of Pharmacology and Experimental Therapeutics, 2006, 319, 790-798.	2.5	79
45	Role of Sodium Channels in Epilepsy. Cold Spring Harbor Perspectives in Medicine, 2016, 6, a022814.	6.2	78
46	Axon initial segment dysfunction in a mouse model of genetic epilepsy with febrile seizures plus. Journal of Clinical Investigation, 2010, 120, 2661-2671.	8.2	77
47	SCN1A gain of function in early infantile encephalopathy. Annals of Neurology, 2019, 85, 514-525.	5.3	76
48	Rare and common epilepsies converge on a shared gene regulatory network providing opportunities for novel antiepileptic drug discovery. Genome Biology, 2016, 17, 245.	8.8	75
49	Magneto-optical imaging of thin magnetic films using spins in diamond. Scientific Reports, 2016, 6, 22797.	3.3	75
50	The coma in glaucoma: Retinal ganglion cell dysfunction and recovery. Progress in Retinal and Eye Research, 2018, 65, 77-92.	15.5	75
51	Nicotine-Induced Dystonic Arousal Complex in a Mouse Line Harboring a Human Autosomal-Dominant Nocturnal Frontal Lobe Epilepsy Mutation. Journal of Neuroscience, 2007, 27, 10128-10142.	3.6	72
52	Dominant KCNA2 mutation causes episodic ataxia and pharmacoresponsive epilepsy. Neurology, 2016, 87, 1975-1984.	1.1	71
53	Myoclonus epilepsy and ataxia due to <scp>KCNC</scp>1 mutation: Analysis of 20 cases and <scp>K</scp>⁺ channel properties. Annals of Neurology, 2017, 81, 677-689.	5.3	69
54	Dynamic action potential clamp predicts functional separation in mild familial and severe de novo forms of SCN2A epilepsy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5516-E5525.	7.1	69

#	Article	IF	Citations
55	A childhood epilepsy mutation reveals a role for developmentally regulated splicing of a sodium channel. Molecular and Cellular Neurosciences, 2007, 35, 292-301.	2.2	68
56	Multiple molecular mechanisms for a single GABA _A mutation in epilepsy. Neurology, 2013, 80, 1003-1008.	1.1	67
57	Rare coding variants in genes encoding GABAA receptors in genetic generalised epilepsies: an exome-based case-control study. Lancet Neurology, The, 2018, 17, 699-708.	10.2	67
58	Glucose transporter GLUT12-functional characterization in Xenopus laevis oocytes. Biochemical and Biophysical Research Communications, 2003, 308, 422-426.	2.1	66
59	â€˜Neonatalâ€™ Nav1.2 reduces neuronal excitability and affects seizure susceptibility and behaviour. Human Molecular Genetics, 2015, 24, 1457-1468.	2.9	66
60	A Novel Ultra-Stable, Monomeric Green Fluorescent Protein For Direct Volumetric Imaging of Whole Organs Using CLARITY. Scientific Reports, 2018, 8, 667.	3.3	66
61	Electron paramagnetic resonance microscopy using spins in diamond under ambient conditions. Nature Communications, 2017, 8, 458.	12.8	65
62	Differential expression of exon 5 splice variants of sodium channel Î± subunit mRNAs in the developing mouse brain. Neuroscience, 2010, 166, 195-200.	2.3	56
63	Developmental impact of a familial GABA_A receptor epilepsy mutation. Annals of Neurology, 2008, 64, 284-293.	5.3	55
64	A rare P2X7 variant Arg307Gln with absent pore formation function protects against neuroinflammation in multiple sclerosis. Human Molecular Genetics, 2015, 24, 5644-5654.	2.9	53
65	Lack of response to quinidine in <scp>KCNT</scp>1â€related neonatal epilepsy. Epilepsia, 2018, 59, 1889-1898.	5.1	53
66	Heat opens axon initial segment sodium channels: A febrile seizure mechanism?. Annals of Neurology, 2009, 66, 219-226.	5.3	49
67	HCN channelopathies: pathophysiology in genetic epilepsy and therapeutic implications. British Journal of Pharmacology, 2012, 165, 49-56.	5.4	49
68	Reduced dendritic arborization and hyperexcitability of pyramidal neurons in a Scn1b-based model of Dravet syndrome. Brain, 2014, 137, 1701-1715.	7.6	49
69	ALPK3-deficient cardiomyocytes generated from patient-derived induced pluripotent stem cells and mutant human embryonic stem cells display abnormal calcium handling and establish that ALPK3 deficiency underlies familial cardiomyopathy. European Heart Journal, 2016, 37, 2586-2590.	2.2	49
70	Optogenetic Demonstration of Functional Innervation of Mouse Colon by Neurons Derived From Transplanted Neural Cells. Gastroenterology, 2017, 152, 1407-1418.	1.3	49
71	A targeted resequencing gene panel for focal epilepsy. Neurology, 2016, 86, 1605-1612.	1.1	48
72	Epileptic encephalopathy-causing mutations in DNM1 impair synaptic vesicle endocytosis. Neurology: Genetics, 2015, 1, e4.	1.9	46

#	Article	IF	Citations
73	Purinergic receptorsP2RX4andP2RX7in familial multiple sclerosis. Human Mutation, 2017, 38, 736-744.	2.5	46
74	Prediction by Modeling That Epilepsy May Be Caused by Very Small Functional Changes in Ion Channels. Archives of Neurology, 2009, 66, 1225-32.	4.5	44
75	Axon initial segment structural plasticity in animal models of genetic and acquired epilepsy. Epilepsy Research, 2013, 105, 272-279.	1.6	43
76	A functional correlate of severity in alternating hemiplegia of childhood. Neurobiology of Disease, 2015, 77, 88-93.	4.4	43
77	Neurons derived from human embryonic stem cells extend long-distance axonal projections through growth along host white matter tracts after intra-cerebral transplantation. Frontiers in Cellular Neuroscience, 2012, 6, 11.	3.7	41
78	Pore formation is not associated with macroscopic redistribution of P2X7 receptors. American Journal of Physiology - Cell Physiology, 2002, 283, C77-C84.	4.6	40
79	Therapeutic Inhibition of Acid-Sensing Ion Channel 1a Recovers Heart Function After Ischemiaâ€“Reperfusion Injury. Circulation, 2021, 144, 947-960.	1.6	40
80	Ca²⁺ influx inhibits voltage-dependent and augments Ca²⁺-dependent K⁺ currents in arterial myocytes. American Journal of Physiology - Cell Physiology, 1999, 277, C51-C63.	4.6	39
81	An Epilepsy-Related Region in the GABA_A Receptor Mediates Long-Distance Effects on GABA and Benzodiazepine Binding Sites. Molecular Pharmacology, 2010, 77, 35-45.	2.3	38
82	Models for discovery of targeted therapy in genetic epileptic encephalopathies. Journal of Neurochemistry, 2017, 143, 30-48.	3.9	38
83	Antisense oligonucleotide therapy reduces seizures and extends life span in an SCN2A gain-of-function epilepsy model. Journal of Clinical Investigation, 2021, 131, .	8.2	38
84	Amiloride Derivatives Inhibit Coxsackievirus B3 RNA Replication. Journal of Virology, 2008, 82, 1465-1473.	3.4	37
85	Cocaine-mediated synaptic potentiation is absent in VTA neurons from mGlu5-deficient mice. International Journal of Neuropsychopharmacology, 2010, 13, 133.	2.1	37
86	Epilepsy, energy deficiency and new therapeutic approaches including diet. , 2014, 144, 192-201.		35
87	Oxcarbazepine, not its active metabolite, potentiates GABA_A activation and aggravates absence seizures. Epilepsia, 2009, 50, 83-87.	5.1	34
88	Triheptanoin reduces seizure susceptibility in a syndrome-specific mouse model of generalized epilepsy. Epilepsy Research, 2013, 103, 101-105.	1.6	33
89	Loss of synaptic Zn2+ transporter function increases risk of febrile seizures. Scientific Reports, 2015, 5, 17816.	3.3	33
90	Encephalopathies with KCNC1 variants: genotypeâ€“phenotypeâ€“functional correlations. Annals of Clinical and Translational Neurology, 2019, 6, 1263-1272.	3.7	33

#	Article	IF	Citations
91	GABA-mediated tonic inhibition differentially modulates gain in functional subtypes of cortical interneurons. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3192-3202.	7.1	33
92	MRI-guided volume reconstruction of mouse brain from histological sections. Journal of Neuroscience Methods, 2012, 211, 210-217.	2.5	32
93	Segmentation of the C57BL/6J mouse cerebellum in magnetic resonance images. NeuroImage, 2012, 62, 1408-1414.	4.2	31
94	Design, synthesis, and subtype selectivity of 3,6-disubstituted Î²-carbolines at Bz/GABA(A)ergic receptors. SAR and studies directed toward agents for treatment of alcohol abuse. Bioorganic and Medicinal Chemistry, 2010, 18, 7548-7564.	3.0	30
95	A comprehensive approach to identifying repurposed drugs to treat <scp>SCN</scp>8A epilepsy. Epilepsia, 2018, 59, 802-813.	5.1	29
96	Gabapentin Modulates HCN4 Channel Voltage-Dependence. Frontiers in Pharmacology, 2017, 8, 554.	3.5	28
97	Gain-of-functionHCN2variants in genetic epilepsy. Human Mutation, 2018, 39, 202-209.	2.5	28
98	Cation leak underlies neuronal excitability in an HCN1 developmental and epileptic encephalopathy. Brain, 2021, 144, 2060-2073.	7.6	26
99	Increased thalamic inhibition in the absence seizure prone DBA/2J mouse. Epilepsia, 2008, 49, 921-925.	5.1	25
100	Toluene inhalation in adolescent rats reduces flexible behaviour in adulthood and alters glutamatergic and GABAergic signalling. Journal of Neurochemistry, 2016, 139, 806-822.	3.9	25
101	Low blood glucose precipitates spike-and-wave activity in genetically predisposed animals. Epilepsia, 2011, 52, 115-120.	5.1	24
102	A quantitative method for measuring innate phagocytosis by human monocytes using realâ€time flow cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2014, 85, 313-321.	1.5	24
103	Exome sequencing results in successful riboflavin treatment of a rapidly progressive neurological condition. Journal of Physical Education and Sports Management, 2015, 1, a000257.	1.2	24
104	Mossy fiber sprouting interacts with sodium channel mutations to increase dentate gyrus excitability. Epilepsia, 2010, 51, 136-145.	5.1	23
105	P2X7 Receptor-mediated Scavenger Activity of Mononuclear Phagocytes toward Non-opsonized Particles and Apoptotic Cells Is Inhibited by Serum Glycoproteins but Remains Active in Cerebrospinal Fluid. Journal of Biological Chemistry, 2012, 287, 17318-17330.	3.4	23
106	Networkâ€specific mechanisms may explain the paradoxical effects of carbamazepine and phenytoin. Epilepsia, 2013, 54, 1195-1202.	5.1	22
107	Functional variants in <scp>HCN</scp>4 and <scp>CACNA</scp>1H may contribute to genetic generalized epilepsy. Epilepsia Open, 2017, 2, 334-342.	2.4	22
108	Hippocampal volume and cell density changes in a mouse model of human genetic epilepsy. Neurology, 2013, 80, 1240-1246.	1.1	21

#	Article	IF	Citations
109	Visualization of mouse barrel cortex using ex-vivo track density imaging. NeuroImage, 2014, 87, 465-475.	4.2	21
110	PRIMA1 mutation: a new cause of nocturnal frontal lobe epilepsy. Annals of Clinical and Translational Neurology, 2015, 2, 821-830.	3.7	21
111	Temperature elevation increases GABAA-mediated cortical inhibition in a mouse model of genetic epilepsy. Epilepsia, 2011, 52, 179-184.	5.1	20
112	The antiepileptic medications carbamazepine and phenytoin inhibit native sodium currents in murine osteoblasts. Epilepsia, 2016, 57, 1398-1405.	5.1	20
113	Using a Multiplex Nucleic Acid in situ Hybridization Technique to Determine HCN4 mRNA Expression in the Adult Rodent Brain. Frontiers in Molecular Neuroscience, 2019, 12, 211.	2.9	20
114	Amiloride Is a Competitive Inhibitor of Coxsackievirus B3 RNA Polymerase. Journal of Virology, 2011, 85, 10364-10374.	3.4	19
115	Sodium channel Î²1 subunit localizes to axon initial segments of excitatory and inhibitory neurons and shows regional heterogeneity in mouse brain. Journal of Comparative Neurology, 2015, 523, 814-830.	1.6	19
116	Spike-and-wave discharge mediated reduction in hippocampal HCN1 channel function associates with learning deficits in a genetic mouse model of epilepsy. Neurobiology of Disease, 2014, 64, 30-35.	4.4	18
117	Synaptic Zn²⁺ and febrile seizure susceptibility. British Journal of Pharmacology, 2017, 174, 119-125.	5.4	18
118	SEARCHING FOR FUNCTIONAL GENETIC VARIANTS IN NONâ€CODING DNA. Clinical and Experimental Pharmacology and Physiology, 2008, 35, 372-375.	1.9	17
119	Genetic and pharmacological modulation of giant depolarizing potentials in the neonatal hippocampus associates with increased seizure susceptibility. Journal of Physiology, 2013, 591, 57-65.	2.9	17
120	PBT2 inhibits glutamate-induced excitotoxicity in neurons through metal-mediated preconditioning. Neurobiology of Disease, 2015, 81, 176-185.	4.4	17
121	Developmental changes in the acetylcholine influence on heart muscle ofRana catesbeiana: in situ and in vitro effects. The Journal of Experimental Zoology, 1993, 267, 1-8.	1.4	16
122	Cortical microarchitecture changes in genetic epilepsy. Neurology, 2015, 84, 1308-1316.	1.1	16
123	Biophysical analysis of an HCN1 epilepsy variant suggests a critical role for S5 helix Met-305 in voltage sensor to pore domain coupling. Progress in Biophysics and Molecular Biology, 2021, 166, 156-172.	2.9	16
124	Ion transport blockers inhibit human rhinovirus 2 release. Antiviral Research, 2005, 67, 98-106.	4.1	15
125	Mapping somatosensory connectivity in adult mice using diffusion MRI tractography and super-resolution track density imaging. NeuroImage, 2014, 102, 381-392.	4.2	15
126	InÂVitro Differentiated Human Stem Cell-Derived Neurons Reproduce Synaptic Synchronicity Arising during Neurodevelopment. Stem Cell Reports, 2020, 15, 22-37.	4.8	15

#	Article	IF	Citations
127	Functional consequences of the CAPOS mutation E818K of Na+,K+-ATPase. Journal of Biological Chemistry, 2019, 294, 269-280.	3.4	14
128	The hyperpolarizationâ€activated cyclic nucleotideâ€gated 4 channel as a potential antiâ€seizure drug target. British Journal of Pharmacology, 2020, 177, 3712-3729.	5.4	14
129	[25] Confocal Ca2+ imaging of organelles, cells, tissues and organs. Methods in Enzymology, 1999, 307, 441-469.	1.0	13
130	Single Nucleotide Variations in CLCN6 Identified in Patients with Benign Partial Epilepsies in Infancy and/or Febrile Seizures. PLoS ONE, 2015, 10, e0118946.	2.5	13
131	Functional correlates of clinical phenotype and severity in recurrent SCN2A variants. Communications Biology, 2022, 5, .	4.4	13
132	Perturbations in cortical development and neuronal network excitability arising from prenatal exposure to benzodiazepines in mice. European Journal of Neuroscience, 2013, 37, 1584-1593.	2.6	12
133	<scp>KCTD</scp>12 modulation of <scp>GABA</scp>(B) receptor function. Pharmacology Research and Perspectives, 2017, 5, e00319.	2.4	12
134	Novel GABRA2 variants in epileptic encephalopathy and intellectual disability with seizures. Brain, 2019, 142, e15-e15.	7.6	12
135	The zebrafishgrimemutant uncovers an evolutionarily conserved role for Tmem161b in the control of cardiac rhythm. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	12
136	Utility of genetic approaches to common cardiovascular diseases. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H1-H6.	3.2	11
137	New therapeutic opportunities in epilepsy: A genetic perspective. , 2010, 128, 274-280.		11
138	Low glycaemic index diet reduces seizure susceptibility in a syndrome-specific mouse model of generalized epilepsy. Epilepsy Research, 2014, 108, 139-143.	1.6	11
139	Gap Junctions Link Regular-Spiking and Fast-Spiking Interneurons in Layer 5 Somatosensory Cortex. Frontiers in Cellular Neuroscience, 2017, 11, 204.	3.7	11
140	Viral targets of acylguanidines. Drug Discovery Today, 2012, 17, 1039-1043.	6.4	10
141	Enhanced in vitro <scp>CA</scp>1 network activity in a sodium channel Î²1(<scp>C</scp>121<scp>W</scp>) subunit model of genetic epilepsy. Epilepsia, 2014, 55, 601-608.	5.1	10
142	In situ 3D visualization of biomineralization matrix proteins. Journal of Structural Biology, 2020, 209, 107448.	2.8	10
143	AP2RX7single nucleotide polymorphism haplotype promotes exon 7 and 8 skipping and disrupts receptor function. FASEB Journal, 2020, 34, 3884-3901.	0.5	10
144	State transitions through inhibitory interneurons in a cortical network model. PLoS Computational Biology, 2021, 17, e1009521.	3.2	10

#	Article	IF	Citations
145	Brain uptake of diazepam and phenytoin in a genetic animal model of absence epilepsy. Clinical and Experimental Pharmacology and Physiology, 2010, 37, 647-649.	1.9	9
146	Two lines of transgenic mice expressing cre-recombinase exhibit increased seizure susceptibility. Epilepsy Research, 2013, 104, 11-16.	1.6	9
147	Oxcarbazepine and its active metabolite, (<scp>S</scp>)â€licarbazepine, exacerbate seizures in a mouse model of genetic generalized epilepsy. Epilepsia, 2015, 56, e6-9.	5.1	9
148	Method of derivation and differentiation of mouse embryonic stem cells generating synchronous neuronal networks. Journal of Neuroscience Methods, 2018, 293, 53-58.	2.5	9
149	The GABAAÎ³2(R43Q) mouse model of humangenetic epilepsy. Epilepsia, 2010, 51, 63-63.	5.1	8
150	Kv3.1 channelopathy: a novel loss-of-function variant and the mechanistic basis of its clinical phenotypes. Annals of Translational Medicine, 2021, 9, 1397-1397.	1.7	8
151	Association of ultraâ€rare coding variants with genetic generalized epilepsy: A caseâ€“control whole exome sequencing study. Epilepsia, 2022, 63, 723-735.	5.1	8
152	Can mutationâ€mediated effects occurring early in development cause longâ€term seizure susceptibility in genetic generalized epilepsies?. Epilepsia, 2018, 59, 915-922.	5.1	7
153	Development of a rapid functional assay that predicts GLUT1 disease severity. Neurology: Genetics, 2018, 4, e297.	1.9	7
154	Novel Missense CACNA1G Mutations Associated with Infantile-Onset Developmental and Epileptic Encephalopathy. International Journal of Molecular Sciences, 2020, 21, 6333.	4.1	7
155	A nutraceutical product, extracted from Cannabis sativa, modulates voltage-gated sodium channel function. Journal of Cannabis Research, 2022, 4, .	3.2	7
156	Febrile seizures: traffic slows in the heat. Trends in Molecular Medicine, 2006, 12, 343-344.	6.7	6
157	Cortical alterations in a model for absence epilepsy and febrile seizures: In vivo findings in mice carrying a human GABA(A)R gamma2 subunit mutation. Neurobiology of Disease, 2015, 77, 62-70.	4.4	6
158	Human GABRG2 generalized epilepsy. Neurology: Genetics, 2019, 5, e340.	1.9	6
159	Protective effects of medium chain triglyceride diet in a mouse model of Dravet syndrome. Epilepsia, 2021, 62, 3131-3142.	5.1	6
160	Sodium channel expression and transcript variation in the developing brain of human, Rhesus monkey, and mouse. Neurobiology of Disease, 2022, 164, 105622.	4.4	6
161	Genetically Targeted Calcium Sensors Enhance The Study Of Organelle Function In Living Cells. Clinical and Experimental Pharmacology and Physiology, 2000, 27, 738-744.	1.9	4
162	The case for realistic modeling in understanding seizures. Expert Review of Neurotherapeutics, 2008, 8, 1771-1773.	2.8	4

#	Article	IF	Citations
163	Usefulness of diagnostic tools in a GLUT1 deficiency syndrome patient with 2 inherited mutations. Brain and Development, 2019, 41, 808-811.	1.1	3
164	Computational Analysis of Amiloride Analogue Inhibitors of Coxsackie Virus B3 RNA Polymerase. Journal of Proteomics and Bioinformatics, 2014, s9, 004.	0.4	2
165	Generation of Local CA1 γ Oscillations by Tetanic Stimulation. Journal of Visualized Experiments, 2015, , e52877.	0.3	2
166	Classification of antiseizure drugs in cultured neuronal networks using multielectrode arrays and unsupervised learning. Epilepsia, 2022, , .	5.1	2
167	Changes in propagation delays for quantifying pharmacological effects on cortical cultures. , 2014, , .		1
168	Genetic Animal Models of Epileptic Seizures. , 2010, , 295-308.		1
169	Channelrhodopsins shed light on a new pathway in absence epilepsy. Future Neurology, 2012, 7, 19-22.	0.5	0
170	CELFexpression in epilepsy linked to sodium channels. Future Neurology, 2013, 8, 255-257.	0.5	0
171	Quantitative analysis of phenotypic elements augments traditional electroclinical classification of common familial epilepsies. Epilepsia, 2019, 60, 2194-2203.	5.1	0
172	Glass-brain mapping provides an adjunct tool for structural analysis in mouse models of neurodevelopmental disease. NeuroImage Reports, 2021, 1, 100023.	1.0	0