

Wayne N Frankel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10451747/publications.pdf>

Version: 2024-02-01

94
papers

16,217
citations

41339

49
h-index

40976

93
g-index

99
all docs

99
docs citations

99
times ranked

18975
citing authors

#	ARTICLE	IF	CITATIONS
1	Initial sequencing and comparative analysis of the mouse genome. <i>Nature</i> , 2002, 420, 520-562.	27.8	6,319
2	TRANCE Is a Novel Ligand of the Tumor Necrosis Factor Receptor Family That Activates c-Jun N-terminal Kinase in T Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 25190-25194.	3.4	943
3	Absence Epilepsy in Tottering Mutant Mice Is Associated with Calcium Channel Defects. <i>Cell</i> , 1996, 87, 607-617.	28.9	722
4	The harlequin mouse mutation downregulates apoptosis-inducing factor. <i>Nature</i> , 2002, 419, 367-374.	27.8	574
5	The mouse stargazer gene encodes a neuronal Ca ²⁺ -channel \hat{I}^3 subunit. <i>Nature Genetics</i> , 1998, 19, 340-347.	21.4	558
6	Disruption of the nuclear hormone receptor ROR $\hat{\alpha}$ in staggerer mice. <i>Nature</i> , 1996, 379, 736-739.	27.8	487
7	An enzymatic cascade of Rab5 effectors regulates phosphoinositide turnover in the endocytic pathway. <i>Journal of Cell Biology</i> , 2005, 170, 607-618.	5.2	354
8	Linkage of Mls genes to endogenous mammary tumour viruses of inbred mice. <i>Nature</i> , 1991, 349, 526-528.	27.8	334
9	Who's afraid of epistasis?. <i>Nature Genetics</i> , 1996, 14, 371-373.	21.4	310
10	Ducky Mouse Phenotype of Epilepsy and Ataxia Is Associated with Mutations in the <i>Cacna2d2</i> Gene and Decreased Calcium Channel Current in Cerebellar Purkinje Cells. <i>Journal of Neuroscience</i> , 2001, 21, 6095-6104.	3.6	289
11	Sodium/Hydrogen Exchanger Gene Defect in Slow-Wave Epilepsy Mutant Mice. <i>Cell</i> , 1997, 91, 139-148.	28.9	260
12	KICSTOR recruits GATOR1 to the lysosome and is necessary for nutrients to regulate mTORC1. <i>Nature</i> , 2017, 543, 438-442.	27.8	229
13	The roads from phenotypic variation to gene discovery: mutagenesis versus QTLs. <i>Nature Genetics</i> , 2000, 25, 381-384.	21.4	202
14	The genomic landscape shaped by selection on transposable elements across 18 mouse strains. <i>Genome Biology</i> , 2012, 13, R45.	9.6	170
15	A new mode of corticothalamic transmission revealed in the <i>Gria4</i> ^{Δα} /Δ α model of absence epilepsy. <i>Nature Neuroscience</i> , 2011, 14, 1167-1173.	14.8	159
16	Altered Calcium Channel Currents in Purkinje Cells of the Neurological Mutant Mouse <i>leaner</i> . <i>Journal of Neuroscience</i> , 1998, 18, 4482-4489.	3.6	156
17	Gait analysis detects early changes in transgenic SOD1(G93A) mice. <i>Muscle and Nerve</i> , 2005, 32, 43-50.	2.2	155
18	The Muscular Dystrophy with Myositis (mdm) Mouse Mutation Disrupts a Skeletal Muscle-Specific Domain of Titin. <i>Genomics</i> , 2002, 79, 146-149.	2.9	142

#	ARTICLE	IF	CITATIONS
19	Functional Annotation of Mouse Genome Sequences. <i>Science</i> , 2001, 291, 1251-1255.	12.6	125
20	Multifactorial inheritance of neural tube defects: localization of the major gene and recognition of modifiers in ct mutant mice. <i>Nature Genetics</i> , 1994, 6, 357-362.	21.4	119
21	Identification of the Mouse Neuromuscular Degeneration Gene and Mapping of a Second Site Suppressor Allele. <i>Neuron</i> , 1998, 21, 1327-1337.	8.1	117
22	Taking stock of complex trait genetics in mice. <i>Trends in Genetics</i> , 1995, 11, 471-477.	6.7	116
23	Electroconvulsive Thresholds of Inbred Mouse Strains. <i>Genomics</i> , 2001, 74, 306-312.	2.9	116
24	Biochemical and Biophysical Evidence for β_2 Subunit Association with Neuronal Voltage-activated Ca^{2+} Channels. <i>Journal of Biological Chemistry</i> , 2001, 276, 32917-32924.	3.4	110
25	Heterozygous mutations of the voltage-gated sodium channel SCN8A are associated with spike-wave discharges and absence epilepsy in mice. <i>Human Molecular Genetics</i> , 2009, 18, 1633-1641.	2.9	110
26	Cloning, mRNA Expression, and Chromosomal Mapping of Mouse and Human Preprocortistatin. <i>Genomics</i> , 1997, 42, 499-506.	2.9	107
27	CELF4 Regulates Translation and Local Abundance of a Vast Set of mRNAs, Including Genes Associated with Regulation of Synaptic Function. <i>PLoS Genetics</i> , 2012, 8, e1003067.	3.5	106
28	Loss of MeCP2 From Forebrain Excitatory Neurons Leads to Cortical Hyperexcitation and Seizures. <i>Journal of Neuroscience</i> , 2014, 34, 2754-2763.	3.6	106
29	A Rostrocaudal Muscular Dystrophy Caused by a Defect in Choline Kinase Beta, the First Enzyme in Phosphatidylcholine Biosynthesis. <i>Journal of Biological Chemistry</i> , 2006, 281, 4938-4948.	3.4	102
30	Isotype switching of an immunoglobulin heavy chain transgene occurs by DNA recombination between different chromosomes. <i>Cell</i> , 1990, 63, 537-548.	28.9	99
31	The mouse fidgetin gene defines a new role for AAA family proteins in mammalian development. <i>Nature Genetics</i> , 2000, 26, 198-202.	21.4	98
32	A Missense Mutation in a Highly Conserved Alternate Exon of Dynamin-1 Causes Epilepsy in Fitful Mice. <i>PLoS Genetics</i> , 2010, 6, e1001046.	3.5	89
33	Mutation Rate and Predicted Phenotypic Target Sizes in Ethylnitrosourea-Treated Mice. <i>Genetics</i> , 2004, 168, 953-959.	2.9	82
34	A Null Mutation in Inositol Polyphosphate 4-Phosphatase Type I Causes Selective Neuronal Loss in Weeble Mutant Mice. <i>Neuron</i> , 2001, 32, 203-212.	8.1	81
35	Implementing Large-Scale ENU Mutagenesis Screens in North America. <i>Genetica</i> , 2004, 122, 51-64.	1.1	81
36	Absence seizures in C3H/HeJ and knockout mice caused by mutation of the AMPA receptor subunit Gria4. <i>Human Molecular Genetics</i> , 2008, 17, 1738-1749.	2.9	78

#	ARTICLE	IF	CITATIONS
37	Neuronal voltage-gated ion channels are genetic modifiers of generalized epilepsy with febrile seizures plus. <i>Neurobiology of Disease</i> , 2011, 41, 655-660.	4.4	78
38	A mutation in the Ter gene causing increased susceptibility to testicular teratomas maps to mouse chromosome 18. <i>Nature Genetics</i> , 1994, 6, 363-368.	21.4	77
39	Large-scale mutagenesis of the mouse to understand the genetic bases of nervous system structure and function. <i>Molecular Brain Research</i> , 2004, 132, 105-115.	2.3	77
40	A Spontaneous Mutation Involving Kcnq2 (Kv7.2) Reduces M-Current Density and Spike Frequency Adaptation in Mouse CA1 Neurons. <i>Journal of Neuroscience</i> , 2006, 26, 2053-2059.	3.6	77
41	The AXB and BXA set of recombinant inbred mouse strains. <i>Mammalian Genome</i> , 1992, 3, 669-680.	2.2	70
42	Genetics of complex neurological disease: challenges and opportunities for modeling epilepsy in mice and rats. <i>Trends in Genetics</i> , 2009, 25, 361-367.	6.7	70
43	Severe epilepsy resulting from genetic interaction between Scn2a and Kcnq2. <i>Human Molecular Genetics</i> , 2006, 15, 1043-1048.	2.9	67
44	A Curly-Tail Modifier Locus, mct1, on Mouse Chromosome 17. <i>Genomics</i> , 1995, 29, 719-724.	2.9	61
45	Complex Seizure Disorder Caused by Brunol4 Deficiency in Mice. <i>PLoS Genetics</i> , 2007, 3, e124.	3.5	61
46	Antiepileptic activity of preferential inhibitors of persistent sodium current. <i>Epilepsia</i> , 2014, 55, 1274-1283.	5.1	60
47	Mapping of the motor neuron degeneration (Mnd) gene, a mouse model of amyotrophic lateral sclerosis (ALS). <i>Genomics</i> , 1992, 13, 797-802.	2.9	59
48	A novel Akt3 mutation associated with enhanced kinase activity and seizure susceptibility in mice. <i>Human Molecular Genetics</i> , 2011, 20, 988-999.	2.9	58
49	Spontaneous deletion of epilepsy gene orthologs in a mutant mouse with a low electroconvulsive threshold. <i>Human Molecular Genetics</i> , 2003, 12, 975-984.	2.9	53
50	Modelling and treating GRIN2A developmental and epileptic encephalopathy in mice. <i>Brain</i> , 2020, 143, 2039-2057.	7.6	51
51	Modes and Regulation of Endocytic Membrane Retrieval in Mouse Auditory Hair Cells. <i>Journal of Neuroscience</i> , 2014, 34, 705-716.	3.6	46
52	Epileptic encephalopathy-causing mutations in <i>DNM1</i> impair synaptic vesicle endocytosis. <i>Neurology: Genetics</i> , 2015, 1, e4.	1.9	46
53	Genetics of Endogenous Murine Leukemia Viruses. <i>Annals of the New York Academy of Sciences</i> , 1989, 567, 39-49.	3.8	44
54	Genetic and Physical Maps of the Stargazer Locus on Mouse Chromosome 15. <i>Genomics</i> , 1997, 43, 62-68.	2.9	43

#	ARTICLE	IF	CITATIONS
55	Reduced GABAergic Neuron Excitability, Altered Synaptic Connectivity, and Seizures in a KCNT1 Gain-of-Function Mouse Model of Childhood Epilepsy. <i>Cell Reports</i> , 2020, 33, 108303.	6.4	41
56	Characterization of the endogenous nonecotropic murine leukemia viruses of NZB/BINJ and SM/J inbred strains. <i>Mammalian Genome</i> , 1992, 2, 110-122.	2.2	39
57	Detecting genes in new and old mouse models for epilepsy: a prospectus through the magnifying glass. <i>Epilepsy Research</i> , 1999, 36, 97-110.	1.6	39
58	Mice Carrying the Szt1 Mutation Exhibit Increased Seizure Susceptibility and Altered Sensitivity to Compounds Acting at the M-Channel. <i>Epilepsia</i> , 2004, 45, 1009-1016.	5.1	39
59	Expression of the Neuronal tRNA n-Tr20 Regulates Synaptic Transmission and Seizure Susceptibility. <i>Neuron</i> , 2020, 108, 193-208.e9.	8.1	38
60	A targeted mutation in <i>Cacng4</i> exacerbates spike-wave seizures in stargazer (<i>Cacng2</i>) mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2123-2128.	7.1	35
61	Inhibition of microRNA 128 promotes excitability of cultured cortical neuronal networks. <i>Genome Research</i> , 2016, 26, 1411-1416.	5.5	34
62	Aberrant sodium channel activity in the complex seizure disorder of <i>Celf4</i> mutant mice. <i>Journal of Physiology</i> , 2013, 591, 241-255.	2.9	33
63	Moving forward with chemical mutagenesis in the mouse. <i>Journal of Physiology</i> , 2004, 554, 13-21.	2.9	32
64	Development of a New Genetic Model for Absence Epilepsy: Spike-Wave Seizures in C3H/He and Backcross Mice. <i>Journal of Neuroscience</i> , 2005, 25, 3452-3458.	3.6	31
65	Functional characterization of fidgetin, an AAA-family protein mutated in fidget mice. <i>Experimental Cell Research</i> , 2005, 304, 50-58.	2.6	31
66	Independent Neuronal Origin of Seizures and Behavioral Comorbidities in an Animal Model of a Severe Childhood Genetic Epileptic Encephalopathy. <i>PLoS Genetics</i> , 2015, 11, e1005347.	3.5	31
67	Genomic mapping of intracisternal A-particle proviral elements. <i>Mammalian Genome</i> , 1993, 4, 69-77.	2.2	29
68	Mouse Strain Backgrounds: More Than Black and White. <i>Neuron</i> , 1998, 20, 183.	8.1	29
69	Of Mice and Genome Sequence. <i>Cell</i> , 2001, 107, 13-16.	28.9	29
70	Interaction between Fidgetin and Protein Kinase A-anchoring Protein AKAP95 Is Critical for Palatogenesis in the Mouse. <i>Journal of Biological Chemistry</i> , 2006, 281, 22352-22359.	3.4	28
71	Phenotypic heterogeneity in the stargazin allelic series. <i>Mammalian Genome</i> , 2003, 14, 506-513.	2.2	27
72	DBA/2J Genetic Background Exacerbates Spontaneous Lethal Seizures but Lessens Amyloid Deposition in a Mouse Model of Alzheimer's Disease. <i>PLoS ONE</i> , 2015, 10, e0125897.	2.5	27

#	ARTICLE	IF	CITATIONS
73	Genetic Approaches to Studying Mouse Models of Human Seizure Disorders. <i>Advances in Experimental Medicine and Biology</i> , 2004, 548, 1-11.	1.6	26
74	Elevated <i>Id2</i> Expression Results in Precocious Neural Stem Cell Depletion and Abnormal Brain Development. <i>Stem Cells</i> , 2013, 31, 1010-1021.	3.2	25
75	Multiple Seizure Susceptibility Genes on Chromosome 7 in SWXL-4 Congenic Mouse Strains. <i>Genomics</i> , 2000, 70, 62-65.	2.9	24
76	Dynamin 1 isoform roles in a mouse model of severe childhood epileptic encephalopathy. <i>Neurobiology of Disease</i> , 2016, 95, 1-11.	4.4	24
77	Three ENU-induced neurological mutations in the pore loop of sodium channel <i>Scn8a</i> (<i>Na v</i> 1.6) and a genetically linked retinal mutation, <i>rd13</i> . <i>Mammalian Genome</i> , 2004, 15, 344-351.	2.2	23
78	<i>meaRtools</i> : An R package for the analysis of neuronal networks recorded on microelectrode arrays. <i>PLoS Computational Biology</i> , 2018, 14, e1006506.	3.2	22
79	Unraveling Genetic Modifiers in the <i>Gria4</i> Mouse Model of Absence Epilepsy. <i>PLoS Genetics</i> , 2014, 10, e1004454.	3.5	19
80	Altered excitatory transmission onto hippocampal interneurons in the <i>IQSEC2</i> mouse model of X-linked neurodevelopmental disease. <i>Neurobiology of Disease</i> , 2020, 137, 104758.	4.4	19
81	Overlaps, gaps, and complexities of mouse models of Developmental and Epileptic Encephalopathy. <i>Neurobiology of Disease</i> , 2021, 148, 105220.	4.4	18
82	An early endothelial cell-specific requirement for <i>Glut1</i> is revealed in <i>Glut1</i> deficiency syndrome model mice. <i>JCI Insight</i> , 2021, 6, .	5.0	17
83	Genetic and phenotypic analysis of seizure susceptibility in <i>PL/J</i> mice. <i>Mammalian Genome</i> , 2004, 15, 698-703.	2.2	15
84	RNAi-Based Gene Therapy Rescues Developmental and Epileptic Encephalopathy in a Genetic Mouse Model. <i>Molecular Therapy</i> , 2020, 28, 1706-1716.	8.2	15
85	A genome end-game: understanding gene function in the nervous system. <i>Nature Neuroscience</i> , 2004, 7, 484-485.	14.8	9
86	Epilepsy Benchmarks Area II: Prevent Epilepsy and Its Progression. <i>Epilepsy Currents</i> , 2020, 20, 14S-22S.	0.8	9
87	Sulfated glycoprotein-2 (<i>Sgp-2</i>) maps to mouse Chromosome 14. <i>Mammalian Genome</i> , 1993, 4, 131-132.	2.2	8
88	A Targeted Deleterious Allele of the Splicing Factor <i>SCNM1</i> in the Mouse. <i>Genetics</i> , 2008, 180, 1419-1427.	2.9	8
89	<i>PRAS</i> : Predicting functional targets of RNA binding proteins based on CLIP-seq peaks. <i>PLoS Computational Biology</i> , 2019, 15, e1007227.	3.2	8
90	<i>Arfgef1</i> haploinsufficiency in mice alters neuronal endosome composition and decreases membrane surface postsynaptic GABA _A receptors. <i>Neurobiology of Disease</i> , 2020, 134, 104632.	4.4	8

#	ARTICLE	IF	CITATIONS
91	Mouse Chromosome 10. Mammalian Genome, 1992, 3, S153-S161.	2.2	7
92	Single unit analysis and wide-field imaging reveal alterations in excitatory and inhibitory neurons in glioma. Brain, 2022, 145, 3666-3680.	7.6	5
93	Altered Fast Synaptic Transmission in a Mouse Model of DNMI-Associated Developmental Epileptic Encephalopathy. ENeuro, 2021, 8, ENEURO.0269-20.2020.	1.9	4
94	Chapter 2.1.1 Mapping single locus mutations in mice: towards gene identification of neurological traits. Handbook of Behavioral Neuroscience, 1999, 13, 61-81.	0.0	0