Wolfgang Wurst

List of Publications by Year
in descending order

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391	36,356	3721 89	4628 170
papers	citations	h-index	g-index

413	413	413	44312
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ACSL4 dictates ferroptosis sensitivity by shaping cellular lipid composition. Nature Chemical Biology, 2017, 13, 91-98.	3.9	2,069
2	Increasing the efficiency of homology-directed repair for CRISPR-Cas9-induced precise gene editing in mammalian cells. Nature Biotechnology, 2015, 33, 543-548.	9.4	1,024
3	Glutathione Peroxidase 4 Senses and Translates Oxidative Stress into 12/15-Lipoxygenase Dependent- and AIF-Mediated Cell Death. Cell Metabolism, 2008, 8, 237-248.	7.2	1,009
4	High-throughput discovery of novel developmental phenotypes. Nature, 2016, 537, 508-514.	13.7	1,001
5	Selenium Utilization by GPX4 Is Required to Prevent Hydroperoxide-Induced Ferroptosis. Cell, 2018, 172, 409-422.e21.	13.5	920
6	Impaired stress response and reduced anxiety in mice lacking a functional corticotropin-releasing hormone receptor 1. Nature Genetics, 1998, 19, 162-166.	9.4	881
7	Arc/Arg3.1 Is Essential for the Consolidation of Synaptic Plasticity and Memories. Neuron, 2006, 52, 437-444.	3.8	743
8	Targeted disruption of the trkB neurotrophin receptor gene results in nervous system lesions and neonatal death. Cell, 1993, 75, 113-122.	13.5	610
9	The Knockout Mouse Project. Nature Genetics, 2004, 36, 921-924.	9.4	556
10	A Humanized Version of Foxp2 Affects Cortico-Basal Ganglia Circuits in Mice. Cell, 2009, 137, 961-971.	13.5	555
11	Neural plate patterning: Upstream and downstream of the isthmic organizer. Nature Reviews Neuroscience, 2001, 2, 99-108.	4.9	515
12	Aberrant methylation of t<scp>RNA</scp>s links cellular stress to neuroâ€developmental disorders. EMBO Journal, 2014, 33, 2020-2039.	3.5	490
13	Hdac2 regulates the cardiac hypertrophic response by modulating Gsk3Î² activity. Nature Medicine, 2007, 13, 324-331.	15.2	433
14	Essential Role for Mitochondrial Thioredoxin Reductase in Hematopoiesis, Heart Development, and Heart Function. Molecular and Cellular Biology, 2004, 24, 9414-9423.	1.1	428
15	Limbic corticotropin-releasing hormone receptor 1 mediates anxiety-related behavior and hormonal adaptation to stress. Nature Neuroscience, 2003, 6, 1100-1107.	7.1	418
16	A comparative phenotypic and genomic analysis of C57BL/6J and C57BL/6N mouse strains. Genome Biology, 2013, 14, R82.	13.9	403
17	A Mouse for All Reasons. Cell, 2007, 128, 9-13.	13.5	396
18	Parkinson's disease mutations in PINK1 result in decreased Complex I activity and deficient synaptic function. EMBO Molecular Medicine, 2009, 1, 99-111.	3.3	360

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19	Inducible gene deletion in astroglia and radial glia-A valuable tool for functional and lineage analysis. Glia, 2006, 54, 21-34.	2.5	356
20	Loss of Parkin or PINK1 Function Increases Drp1-dependent Mitochondrial Fragmentation. Journal of Biological Chemistry, 2009, 284, 22938-22951.	1.6	355
21	Rapamycin extends murine lifespan but has limited effects on aging. Journal of Clinical Investigation, 2013, 123, 3272-3291.	3.9	333
22	Cytoplasmic Thioredoxin Reductase Is Essential for Embryogenesis but Dispensable for Cardiac Development. Molecular and Cellular Biology, 2005, 25, 1980-1988.	1.1	315
23	Fate of Midbrain Dopaminergic Neurons Controlled by the Engrailed Genes. Journal of Neuroscience, 2001, 21, 3126-3134.	1.7	306
24	The caudal limit of Otx2 expression positions the isthmic organizer. Nature, 1999, 401, 164-168.	13.7	305
25	The isthmic organizer signal FGF8 is required for cell survival in the prospective midbrain and cerebellum. Development (Cambridge), 2003, 130, 2633-2644.	1.2	302
26	EphA-Ephrin-A-Mediated Î² Cell Communication Regulates Insulin Secretion from Pancreatic Islets. Cell, 2007, 129, 359-370.	13.5	300
27	The mouse Engrailed-1 gene and ventral limb patterning. Nature, 1996, 382, 360-363.	13.7	296
28	The mammalian gene function resource: the international knockout mouse consortium. Mammalian Genome, 2012, 23, 580-586.	1.0	292
29	Two lineage boundaries coordinate vertebrate apical ectodermal ridge formation. Genes and Development, 2000, 14, 1377-1389.	2.7	284
30	Development of an intein-mediated splitâ€“Cas9 system for gene therapy. Nucleic Acids Research, 2015, 43, 6450-6458.	6.5	278
31	Glutamatergic and Dopaminergic Neurons Mediate Anxiogenic and Anxiolytic Effects of CRHR1. Science, 2011, 333, 1903-1907.	6.0	268
32	Gene targeting by homologous recombination in mouse zygotes mediated by zinc-finger nucleases. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15022-15026.	3.3	258
33	Mitochondrial glutathione peroxidase 4 disruption causes male infertility. FASEB Journal, 2009, 23, 3233-3242.	0.2	251
34	LRRK2 Controls Synaptic Vesicle Storage and Mobilization within the Recycling Pool. Journal of Neuroscience, 2011, 31, 2225-2237.	1.7	240
35	<scp>TREM</scp>2 deficiency impairs chemotaxis and microglial responses to neuronal injury. EMBO Reports, 2017, 18, 1186-1198.	2.0	240
36	Reliability, robustness, and reproducibility in mouse behavioral phenotyping: a cross-laboratory study. Physiological Genomics, 2008, 34, 243-255.	1.0	229

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37	Role of Mitochondrial Metabolism in the Control of Early Lineage Progression and Aging Phenotypes in Adult Hippocampal Neurogenesis. Neuron, 2017, 93, 560-573.e6.	3.8	221
38	Enhanced and Delayed Stress-Induced Alcohol Drinking in Mice Lacking Functional CRH1 Receptors. Science, 2002, 296, 931-933.	6.0	220
39	A Wnt1-regulated genetic network controls the identity and fate of midbrain-dopaminergic progenitors in vivo. Development (Cambridge), 2006, 133, 89-98.	1.2	219
40	Disease model discovery from 3,328 gene knockouts by The International Mouse Phenotyping Consortium. Nature Genetics, 2017, 49, 1231-1238.	9.4	216
41	A public gene trap resource for mouse functional genomics. Nature Genetics, 2004, 36, 543-544.	9.4	213
42	The European dimension for the mouse genome mutagenesis program. Nature Genetics, 2004, 36, 925-927.	9.4	195
43	Otx2 regulates the extent, identity and fate of neuronal progenitor domains in the ventral midbrain. Development (Cambridge), 2004, 131, 2037-2048.	1.2	190
44	The E3 Ligase Parkin Maintains Mitochondrial Integrity by Increasing Linear Ubiquitination of NEMO. Molecular Cell, 2013, 49, 908-921.	4.5	183
45	Cell-type-specific profiling of brain mitochondria reveals functional and molecular diversity. Nature Neuroscience, 2019, 22, 1731-1742.	7.1	181
46	Roquin Paralogs 1 and 2 Redundantly Repress the Icos and Ox40 Costimulator mRNAs and Control Follicular Helper T Cell Differentiation. Immunity, 2013, 38, 655-668.	6.6	178
47	Introducing the German Mouse Clinic: open access platform for standardized phenotyping. Nature Methods, 2005, 2, 403-404.	9.0	176
48	Neuronal 3â€²,3,5-Triiodothyronine (T₃) Uptake and Behavioral Phenotype of Mice Deficient inMct8, the Neuronal T₃Transporter Mutated in Allanâ€“Herndonâ€“Dudley Syndrome. Journal of Neuroscience, 2009, 29, 9439-9449.	1.7	172
49	FGFR1 is independently required in both developing mid- and hindbrain for sustained response to isthmic signals. EMBO Journal, 2003, 22, 1811-1823.	3.5	168
50	Lysosomal storage disease upon disruption of the neuronal chloride transport protein ClC-6. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13854-13859.	3.3	166
51	Genomewide production of multipurpose alleles for the functional analysis of the mouse genome. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 7221-7226.	3.3	161
52	Regulation of astrocyte inflammatory responses by the Parkinson's diseaseâ€associated gene DJâ€“1. FASEB Journal, 2009, 23, 2478-2489.	0.2	161
53	Modulation of dendritic differentiation by corticotropin-releasing factor in the developing hippocampus. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15782-15787.	3.3	157
54	Forebrain CRF₁Modulates Early-Life Stress-Programmed Cognitive Deficits. Journal of Neuroscience, 2011, 31, 13625-13634.	1.7	154

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55	The <scp>FTD</scp>â€like syndrome causing <scp>TREM</scp>2 T66M mutation impairs microglia function, brain perfusion, and glucose metabolism. EMBO Journal, 2017, 36, 1837-1853.	3.5	152
56	Direct production of mouse disease models by embryo microinjection of TALENs and oligodeoxynucleotides. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3782-3787.	3.3	140
57	Forebrain CRHR1 deficiency attenuates chronic stress-induced cognitive deficits and dendritic remodeling. Neurobiology of Disease, 2011, 42, 300-310.	2.1	138
58	LIM-homeodomain proteins Lhx1 and Lhx5, and their cofactor Ldb1, control Purkinje cell differentiation in the developing cerebellum. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13182-13186.	3.3	137
59	Analysis of mammalian gene function through broad-based phenotypic screens across a consortium of mouse clinics. Nature Genetics, 2015, 47, 969-978.	9.4	137
60	Establishment of a gene-trap sequence tag library to generate mutant mice from embryonic stem cells. Nature Genetics, 2000, 24, 13-14.	9.4	136
61	A large-scale, gene-driven mutagenesis approach for the functional analysis of the mouse genome. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9918-9922.	3.3	134
62	Location and Size of Dopaminergic and Serotonergic Cell Populations Are Controlled by the Position of the Midbrainâ€“Hindbrain Organizer. Journal of Neuroscience, 2003, 23, 4199-4207.	1.7	133
63	Pitchfork Regulates Primary Cilia Disassembly and Left-Right Asymmetry. Developmental Cell, 2010, 19, 66-77.	3.1	133
64	Uncoupling Malt1 Threshold Function from Paracaspase Activity Results in Destructive Autoimmune Inflammation. Cell Reports, 2014, 9, 1292-1305.	2.9	133
65	The International Gene Trap Consortium Website: a portal to all publicly available gene trap cell lines in mouse. Nucleic Acids Research, 2006, 34, D642-D648.	6.5	131
66	Expression of the Splicing Factor Gene SFRS10 Is Reduced in Human Obesity and Contributes to Enhanced Lipogenesis. Cell Metabolism, 2011, 14, 208-218.	7.2	130
67	Otx dose-dependent integrated control of antero-posterior and dorso-ventral patterning of midbrain. Nature Neuroscience, 2003, 6, 453-460.	7.1	129
68	Mouse phenotyping. Methods, 2011, 53, 120-135.	1.9	128
69	Effects of Wnt1 signaling on proliferation in the developing mid-/hindbrain region. Molecular and Cellular Neurosciences, 2004, 26, 101-111.	1.0	127
70	Functional Annotation of Mouse Genome Sequences. Science, 2001, 291, 1251-1255.	6.0	125
71	Nectin-3 links CRHR1 signaling to stress-induced memory deficits and spine loss. Nature Neuroscience, 2013, 16, 706-713.	7.1	123
72	Reduced Body Size and Decreased Intestinal Tumor Rates in HDAC2-Mutant Mice. Cancer Research, 2007, 67, 9047-9054.	0.4	121

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73	Genetic networks controlling the development of midbrain dopaminergic neurons. Journal of Physiology, 2006, 575, 403-410.	1.3	120
74	Exosomal secretion of Î±-synuclein as protective mechanism after upstream blockage of macroautophagy. Cell Death and Disease, 2018, 9, 757.	2.7	117
75	A large scale hearing loss screen reveals an extensive unexplored genetic landscape for auditory dysfunction. Nature Communications, 2017, 8, 886.	5.8	116
76	Otx2 controls neuron subtype identity in ventral tegmental area and antagonizes vulnerability to MPTP. Nature Neuroscience, 2010, 13, 1481-1488.	7.1	114
77	EUCOMM the European Conditional Mouse Mutagenesis Program. Briefings in Functional Genomics & Proteomics, 2007, 6, 180-185.	3.8	111
78	Regulation of the Hypothalamic-Pituitary-Adrenocortical System in Mice Deficient for CRH Receptors 1 and 2. Endocrinology, 2001, 142, 4946-4955.	1.4	109
79	FoxO Function Is Essential for Maintenance of Autophagic Flux and Neuronal Morphogenesis in Adult Neurogenesis. Neuron, 2018, 99, 1188-1203.e6.	3.8	107
80	Nephrin TRAP Mice Lack Slit Diaphragms and Show Fibrotic Glomeruli and Cystic Tubular Lesions. Journal of the American Society of Nephrology: JASN, 2002, 13, 1586-1594.	3.0	106
81	Chronic CRH depletion from GABAergic, long-range projection neurons in the extended amygdala reduces dopamine release and increases anxiety. Nature Neuroscience, 2018, 21, 803-807.	7.1	106
82	Extracellular Engrailed Participates in the Topographic Guidance of Retinal Axons In Vivo. Neuron, 2009, 64, 355-366.	3.8	105
83	Evolutionarily Conserved Role of Nucleostemin: Controlling Proliferation of Stem/Progenitor Cells during Early Vertebrate Development. Molecular and Cellular Biology, 2006, 26, 9291-9301.	1.1	103
84	Towards better mouse models: enhanced genotypes, systemic phenotyping and envirotype modelling. Nature Reviews Genetics, 2009, 10, 371-380.	7.7	103
85	Restless Legs Syndrome-associated intronic common variant in Meis1 alters enhancer function in the developing telencephalon. Genome Research, 2014, 24, 592-603.	2.4	102
86	Genetic Differences in the Immediate Transcriptome Response to Stress Predict Risk-Related Brain Function and Psychiatric Disorders. Neuron, 2015, 86, 1189-1202.	3.8	102
87	Mitochondrial Dysfunction and Decrease in Body Weight of a Transgenic Knock-in Mouse Model for TDP-43. Journal of Biological Chemistry, 2014, 289, 10769-10784.	1.6	100
88	Spinal poly-GA inclusions in a C9orf72 mouse model trigger motor deficits and inflammation without neuron loss. Acta Neuropathologica, 2017, 134, 241-254.	3.9	99
89	The specific role of histone deacetylase 2 in adult neurogenesis. Neuron Glia Biology, 2010, 6, 93-107.	2.0	98
90	A Unilateral Negative Feedback Loop BetweenmiR-200microRNAs and Sox2/E2F3 Controls Neural Progenitor Cell-Cycle Exit and Differentiation. Journal of Neuroscience, 2012, 32, 13292-13308.	1.7	98

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91	Anterior-posterior graded response to Otx2 controls proliferation and differentiation of dopaminergic progenitors in the ventral mesencephalon. Development (Cambridge), 2008, 135, 3459-3470.	1.2	96
92	Corticotropin-releasing hormone activates ERK1/2 MAPK in specific brain areas. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6183-6188.	3.3	95
93	The rRNA m⁶A methyltransferase METTL5 is involved in pluripotency and developmental programs. Genes and Development, 2020, 34, 715-729.	2.7	93
94	Generation and Characterization of dickkopf3 Mutant Mice. Molecular and Cellular Biology, 2006, 26, 2317-2326.	1.1	92
95	Conditional brain-specific knockdown of MAPK using Cre/loxP regulated RNA interference. Nucleic Acids Research, 2007, 35, e90-e90.	6.5	92
96	Gata2is a tissue-specific post-mitotic selector gene for midbrain GABAergic neurons. Development (Cambridge), 2009, 136, 253-262.	1.2	92
97	Animal models for arthritis: innovative tools for prevention and treatment. Annals of the Rheumatic Diseases, 2011, 70, 1357-1362.	0.5	92
98	The winged helix transcription factor Fkh10 is required for normal development of the inner ear. Nature Genetics, 1998, 20, 374-376.	9.4	91
99	Cannabinoid CB1 receptor is dispensable for memory extinction in an appetitively-motivated learning task. European Journal of Pharmacology, 2005, 510, 69-74.	1.7	91
100	The Hsp90 Cochaperone p23 Is Essential for Perinatal Survival. Molecular and Cellular Biology, 2006, 26, 8976-8983.	1.1	91
101	Requirement of the RNA-editing Enzyme ADAR2 for Normal Physiology in Mice. Journal of Biological Chemistry, 2011, 286, 18614-18622.	1.6	91
102	Earlyâ€life stressâ€induced anxietyâ€related behavior in adult mice partially requires forebrain corticotropinâ€releasing hormone receptor 1. European Journal of Neuroscience, 2012, 36, 2360-2367.	1.2	91
103	The Trem2 R47H Alzheimerâ€™s risk variant impairs splicing and reduces Trem2 mRNA and protein in mice but not in humans. Molecular Neurodegeneration, 2018, 13, 49.	4.4	91
104	Telomere shortening reduces Alzheimerâ€™s disease amyloid pathology in mice. Brain, 2011, 134, 2044-2056.	3.7	90
105	Hypogonadotropic hypogonadism and peripheral neuropathy inEbf2-null mice. Development (Cambridge), 2003, 130, 401-410.	1.2	89
106	A New Partner for the International Knockout Mouse Consortium. Cell, 2007, 129, 235.	13.5	88
107	MicroRNA-9 controls dendritic development by targeting REST. ELife, 2014, 3, .	2.8	88
108	Pitx3 Is a Critical Mediator of GDNF-Induced BDNF Expression in Nigrostriatal Dopaminergic Neurons. Journal of Neuroscience, 2011, 31, 12802-12815.	1.7	87

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109	Every-other-day feeding extends lifespan but fails to delay many symptoms of aging in mice. Nature Communications, 2017, 8, 155.	5.8	87
110	Fibroblast Growth Factor Receptors Cooperate to Regulate Neural Progenitor Properties in the Developing Midbrain and Hindbrain. Journal of Neuroscience, 2007, 27, 8581-8592.	1.7	85
111	Selective Activation of the Hypothalamic Vasopressinergic System in Mice Deficient for the Corticotropin-Releasing Hormone Receptor 1 Is Dependent on Glucocorticoids¹. Endocrinology, 2000, 141, 4262-4269.	1.4	84
112	Wnt5a Regulates Ventral Midbrain Morphogenesis and the Development of A9â€“A10 Dopaminergic Cells In Vivo. PLoS ONE, 2008, 3, e3517.	1.1	84
113	MIM-Induced Membrane Bending Promotes Dendritic Spine Initiation. Developmental Cell, 2015, 33, 644-659.	3.1	84
114	Urocortin 3 Modulates Social Discrimination Abilities via Corticotropin-Releasing Hormone Receptor Type 2. Journal of Neuroscience, 2010, 30, 9103-9116.	1.7	83
115	Individual Stress Vulnerability Is Predicted by Short-Term Memory and AMPA Receptor Subunit Ratio in the Hippocampus. Journal of Neuroscience, 2010, 30, 16949-16958.	1.7	83
116	Musashi 2 is a regulator of the HSC compartment identified by a retroviral insertion screen and knockout mice. Blood, 2011, 118, 554-564.	0.6	76
117	A systems medicine research approach for studying alcohol addiction. Addiction Biology, 2013, 18, 883-896.	1.4	76
118	The isthmic neuroepithelium is essential for cerebellar midline fusion. Development (Cambridge), 2003, 130, 5319-5330.	1.2	75
119	Phenotypic annotation of the mouse X chromosome. Genome Research, 2010, 20, 1154-1164.	2.4	75
120	Getting closer to affective disorders: the role of CRH receptor systems. Trends in Molecular Medicine, 2004, 10, 409-415.	3.5	74
121	Efficient Isolation of Pure and Functional Mitochondria from Mouse Tissues Using Automated Tissue Disruption and Enrichment with Anti-TOM22 Magnetic Beads. PLoS ONE, 2013, 8, e82392.	1.1	74
122	Semaphorin 4C and 4G are ligands of Plexin-B2 required in cerebellar development. Molecular and Cellular Neurosciences, 2011, 46, 419-431.	1.0	73
123	Computational identification and experimental validation of microRNAs binding to the Alzheimer-related gene ADAM10. BMC Medical Genetics, 2012, 13, 35.	2.1	73
124	Zebrafish reward mutants reveal novel transcripts mediating the behavioral effects of amphetamine. Genome Biology, 2009, 10, R81.	13.9	71
125	Genetically dissecting P2rx7 expression within the central nervous system using conditional humanized mice. Purinergic Signalling, 2017, 13, 153-170.	1.1	71
126	A robust and reliable non-invasive test for stress responsivity in mice. Frontiers in Behavioral Neuroscience, 2014, 8, 125.	1.0	70

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127	Systemic First-Line Phenotyping. Methods in Molecular Biology, 2009, 530, 463-509.	0.4	70
128	Structural Determinants of the C-terminal Helix-Kink-Helix Motif Essential for Protein Stability and Survival Promoting Activity of DJ-1. Journal of Biological Chemistry, 2007, 282, 13680-13691.	1.6	69
129	Expression of a Catalytically Inactive Mutant Form of Glutathione Peroxidase 4 (Gpx4) Confers a Dominant-negative Effect in Male Fertility. Journal of Biological Chemistry, 2015, 290, 14668-14678.	1.6	69
130	Expression Analysis of Lrrk1, Lrrk2 and Lrrk2 Splice Variants in Mice. PLoS ONE, 2013, 8, e63778.	1.1	69
131	Essential roles of BMPR-IA signaling in differentiation and growth of hair follicles and in skin tumorigenesis. Genesis, 2004, 39, 10-25.	0.8	68
132	Orphan receptor IL-17RD tunes IL-17A signalling and is required for neutrophilia. Nature Communications, 2012, 3, 1119.	5.8	68
133	Nkx6-1 controls the identity and fate of red nucleus and oculomotor neurons in the mouse midbrain. Development (Cambridge), 2009, 136, 2545-2555.	1.2	67
134	Fgfr1-dependent boundary cells between developing mid- and hindbrain. Developmental Biology, 2005, 278, 428-439.	0.9	65
135	Multiple roles of ephrins during the formation of thalamocortical projections: Maps and more. Journal of Neurobiology, 2004, 59, 82-94.	3.7	64
136	Generating Conditional Knockout Mice. Methods in Molecular Biology, 2011, 693, 205-231.	0.4	64
137	Tumor suppressor down-regulated in renal cell carcinoma 1 (DRR1) is a stress-induced actin bundling factor that modulates synaptic efficacy and cognition. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17213-17218.	3.3	64
138	Pink1-deficiency in mice impairs gait, olfaction and serotonergic innervation of the olfactory bulb. Experimental Neurology, 2012, 235, 214-227.	2.0	64
139	Human and mouse essentiality screens as a resource for disease gene discovery. Nature Communications, 2020, 11, 655.	5.8	64
140	A protein quality control pathway regulated by linear ubiquitination. EMBO Journal, 2019, 38, .	3.5	63
141	Localization of heat shock protein 70 genes inside the rat major histocompatibility complex close to class III genes. Immunogenetics, 1989, 30, 46-49.	1.2	62
142	Expression of CRHR1 and CRHR2 in Mouse Pituitary and Adrenal Gland: Implications for HPA System Regulation. Endocrinology, 2001, 142, 4150-4153.	1.4	62
143	Highly Efficient Targeted Mutagenesis in Mice Using TALENs. Genetics, 2013, 195, 703-713.	1.2	62
144	Assessing Cognition in Mice. Current Protocols in Mouse Biology, 2015, 5, 331-358.	1.2	61

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145	Global site-specific neddylation profiling reveals that NEDDylated cofilin regulates actin dynamics. Nature Structural and Molecular Biology, 2020, 27, 210-220.	3.6	61
146	The REST remodeling complex protects genomic integrity during embryonic neurogenesis. ELife, 2016, 5, e09584.	2.8	61
147	The Functional Annotation of Mammalian Genomes: The Challenge of Phenotyping. Annual Review of Genetics, 2009, 43, 305-333.	3.2	60
148	Brain-Specific Inactivation of the Crhr1 Gene Inhibits Post-Dependent and Stress-Induced Alcohol Intake, but Does Not Affect Relapse-Like Drinking. Neuropsychopharmacology, 2012, 37, 1047-1056.	2.8	60
149	Wnt1-regulated genetic networks in midbrain dopaminergic neuron development. Journal of Molecular Cell Biology, 2014, 6, 34-41.	1.5	60
150	A resource of targeted mutant mouse lines for 5,061 genes. Nature Genetics, 2021, 53, 416-419.	9.4	60
151	Modeling disease mutations by gene targeting in one-cell mouse embryos. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9354-9359.	3.3	59
152	Identification of genetic elements in metabolism by high-throughput mouse phenotyping. Nature Communications, 2018, 9, 288.	5.8	59
153	Iron homeostasis in the brain: complete iron regulatory protein 2 deficiency without symptomatic neurodegeneration in the mouse. Nature Genetics, 2006, 38, 967-969.	9.4	58
154	Miswiring of Limbic Thalamocortical Projections in the Absence of Ephrin-A5. Journal of Neuroscience, 2002, 22, 9352-9357.	1.7	57
155	Sall1, Sall2, and Sall4 Are Required for Neural Tube Closure in Mice. American Journal of Pathology, 2008, 173, 1455-1463.	1.9	57
156	An integrated genome research network for studying the genetics of alcohol addiction. Addiction Biology, 2010, 15, 369-379.	1.4	57
157	Cardiopulmonary dysfunction in the Osteogenesis imperfecta mouse model Aga2 and human patients are caused by bone-independent mechanisms. Human Molecular Genetics, 2012, 21, 3535-3545.	1.4	57
158	Generation of targeted mouse mutants by embryo microinjection of TALEN mRNA. Nature Protocols, 2013, 8, 2355-2379.	5.5	57
159	Diversity matters â€“ heterogeneity of dopaminergic neurons in the ventral mesencephalon and its relation to Parkinson's Disease. Journal of Neurochemistry, 2016, 139, 8-26.	2.1	57
160	Control of gene editing by manipulation of DNA repair mechanisms. Mammalian Genome, 2017, 28, 262-274.	1.0	57
161	Large-Scale Phenotyping of an Accurate Genetic Mouse Model of JNCL Identifies Novel Early Pathology Outside the Central Nervous System. PLoS ONE, 2012, 7, e38310.	1.1	56
162	Permutation-validated principal components analysis of microarray data. Genome Biology, 2002, 3, research0019.1.	13.9	55

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163	mPet-1, a mouse ETS-domain transcription factor, is expressed in central serotonergic neurons. Development Genes and Evolution, 2002, 212, 43-46.	0.4	55
164	Voluntary wheel running in mice increases the rate of neurogenesis without affecting anxiety-related behaviour in single tests. BMC Neuroscience, 2012, 13, 61.	0.8	53
165	Splinkerette PCR for more efficient characterization of gene trap events. Nature Genetics, 2007, 39, 933-934.	9.4	51
166	Impact of IVC housing on emotionality and fear learning in male C3HeB/FeJ and C57BL/6J mice. Mammalian Genome, 2007, 18, 173-186.	1.0	51
167	Pro-Survival Role for Parkinson's Associated Gene DJ-1 Revealed in Trophically Impaired Dopaminergic Neurons. PLoS Biology, 2010, 8, e1000349.	2.6	51
168	Srgap3 ^{â€“/â€“} mice present a neurodevelopmental disorder with schizophreniaâ€related intermediate phenotypes. FASEB Journal, 2012, 26, 4418-4428.	0.2	51
169	A powerful transgenic tool for fate mapping and functional analysis of newly generated neurons. BMC Neuroscience, 2010, 11, 158.	0.8	50
170	LRRK2 guides the actin cytoskeleton at growth cones together with ARHGEF7 and Tropomyosin 4. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 2352-2367.	1.8	50
171	High-Fat Diet Induced Isoform Changes of the Parkinsonâ€™s Disease Protein DJ-1. Journal of Proteome Research, 2014, 13, 2339-2351.	1.8	50
172	Products of the Parkinson's disease-related glyoxalase DJ-1, D-lactate and glycolate, support mitochondrial membrane potential and neuronal survival. Biology Open, 2014, 3, 777-784.	0.6	49
173	CRFR1 in AgRP Neurons Modulates Sympathetic Nervous System Activity to Adapt to Cold Stress and Fasting. Cell Metabolism, 2016, 23, 1185-1199.	7.2	49
174	Gene editing in mouse zygotes using the CRISPR/Cas9 system. Methods, 2017, 121-122, 55-67.	1.9	49
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