Helmut Fuchs

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4858006/publications.pdf

Version: 2024-02-01

226 papers	14,281 citations	31976 53 h-index	25787 108 g-index
232 all docs	232 docs citations	232 times ranked	24486 citing authors

#	Article	IF	Citations
1	High-throughput discovery of novel developmental phenotypes. Nature, 2016, 537, 508-514.	27.8	1,001
2	Cardioprotection and lifespan extension by the natural polyamine spermidine. Nature Medicine, 2016, 22, 1428-1438.	30.7	801
3	Genome-wide, large-scale production of mutant mice by ENU mutagenesis. Nature Genetics, 2000, 25, 444-447.	21.4	658
4	Mutations in Dynein Link Motor Neuron Degeneration to Defects in Retrograde Transport. Science, 2003, 300, 808-812.	12.6	652
5	A Humanized Version of Foxp2 Affects Cortico-Basal Ganglia Circuits in Mice. Cell, 2009, 137, 961-971.	28.9	555
6	Aberrant methylation of t<scp>RNA</scp>s links cellular stress to neuroâ€developmental disorders. EMBO Journal, 2014, 33, 2020-2039.	7.8	490
7	A comparative phenotypic and genomic analysis of C57BL/6J and C57BL/6N mouse strains. Genome Biology, 2013, 14, R82.	9.6	403
8	Post-Stroke Inhibition of Induced NADPH Oxidase Type 4 Prevents Oxidative Stress and Neurodegeneration. PLoS Biology, 2010, 8, e1000479.	5.6	377
9	Ribosomal mutations cause p53-mediated dark skin and pleiotropic effects. Nature Genetics, 2008, 40, 963-970.	21.4	334
10	Rapamycin extends murine lifespan but has limited effects on aging. Journal of Clinical Investigation, 2013, 123, 3272-3291.	8.2	333
11	An ENU-induced mutation of miR-96 associated with progressive hearing loss in mice. Nature Genetics, 2009, 41, 614-618.	21.4	281
12	Beethoven, a mouse model for dominant, progressive hearing loss DFNA36. Nature Genetics, 2002, 30, 257-258.	21.4	246
13	Prevalence of sexual dimorphism in mammalian phenotypic traits. Nature Communications, 2017, 8, 15475.	12.8	200
14	Effects of G-protein mutations on skin color. Nature Genetics, 2004, 36, 961-968.	21.4	186
15	Introducing the German Mouse Clinic: open access platform for standardized phenotyping. Nature Methods, 2005, 2, 403-404.	19.0	176
16	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.	3.6	172
17	Expression Pattern of G Protein-Coupled Receptor 30 in LacZ Reporter Mice. Endocrinology, 2009, 150, 1722-1730.	2.8	161
18	Calcitonin controls bone formation by inhibiting the release of sphingosine 1-phosphate from osteoclasts. Nature Communications, 2014, 5, 5215.	12.8	160

#	Article	IF	Citations
19	Autoimmunity and Inflammation Due to a Gain-of-Function Mutation in Phospholipase Cî³2 that Specifically Increases External Ca2+ Entry. Immunity, 2005, 22, 451-465.	14.3	159
20	Chemical Hybridization of Glucagon and Thyroid Hormone Optimizes Therapeutic Impact for Metabolic Disease. Cell, 2016, 167, 843-857.e14.	28.9	153
21	Analysis of mammalian gene function through broad-based phenotypic screens across a consortium of mouse clinics. Nature Genetics, 2015, 47, 969-978.	21.4	137
22	Mouse large-scale phenotyping initiatives: overview of the European Mouse Disease Clinic (EUMODIC) and of the Wellcome Trust Sanger Institute Mouse Genetics Project. Mammalian Genome, 2012, 23, 600-610.	2.2	133
23	ER Stress-Mediated Apoptosis in a New Mouse Model of Osteogenesis imperfecta. PLoS Genetics, 2008, 4, e7.	3.5	131
24	Mouse phenotyping. Methods, 2011, 53, 120-135.	3.8	128
25	Genetics of dark skin in mice. Genes and Development, 2003, 17, 214-228.	5.9	124
26	Restless Legs Syndrome-associated intronic common variant in Meis1 alters enhancer function in the developing telencephalon. Genome Research, 2014, 24, 592-603.	5.5	102
27	Epigenetic alterations in longevity regulators, reduced life span, and exacerbated aging-related pathology in old father offspring mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2348-E2357.	7.1	102
28	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.	3.4	100
29	Spinal poly-GA inclusions in a C9orf72 mouse model trigger motor deficits and inflammation without neuron loss. Acta Neuropathologica, 2017, 134, 241-254.	7.7	99
30	Noncanonical thyroid hormone signaling mediates cardiometabolic effects in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E11323-E11332.	7.1	93
31	The rRNA m⁶A methyltransferase METTL5 is involved in pluripotency and developmental programs. Genes and Development, 2020, 34, 715-729.	5.9	93
32	Generation and Characterization of dickkopf3 Mutant Mice. Molecular and Cellular Biology, 2006, 26, 2317-2326.	2.3	92
33	Requirement of the RNA-editing Enzyme ADAR2 for Normal Physiology in Mice. Journal of Biological Chemistry, 2011, 286, 18614-18622.	3.4	91
34	Bacterial encapsulins as orthogonal compartments for mammalian cell engineering. Nature Communications, 2018, 9, 1990.	12.8	88
35	Every-other-day feeding extends lifespan but fails to delay many symptoms of aging in mice. Nature Communications, 2017, 8, 155.	12.8	87
36	<scp>RNA</scp> editing of Filamin A preâ€•<scp>mRNA</scp> regulates vascular contraction and diastolic blood pressure. EMBO Journal, 2018, 37, .	7.8	86

#	Article	IF	Citations
37	MIM-Induced Membrane Bending Promotes Dendritic Spine Initiation. Developmental Cell, 2015, 33, 644-659.	7.0	84
38	Urocortin 3 Modulates Social Discrimination Abilities via Corticotropin-Releasing Hormone Receptor Type 2. Journal of Neuroscience, 2010, 30, 9103-9116.	3.6	83
39	Calcium Oxalate Stone Formation in the Inner Ear as a Result of an Slc26a4 Mutation. Journal of Biological Chemistry, 2010, 285, 21724-21735.	3.4	81
40	A Myo6 Mutation Destroys Coordination between the Myosin Heads, Revealing New Functions of Myosin VI in the Stereocilia of Mammalian Inner Ear Hair Cells. PLoS Genetics, 2008, 4, e1000207.	3.5	79
41	Inbred strain variation in lung function. Mammalian Genome, 2002, 13, 429-437.	2.2	78
42	Toxicity modelling of Plk1-targeted therapies in genetically engineered mice and cultured primary mammalian cells. Nature Communications, 2011, 2, 395.	12.8	76
43	Missing-in-metastasis MIM/MTSS1 promotes actin assembly at intercellular junctions and is required for integrity of kidney epithelia. Journal of Cell Science, 2011, 124, 1245-1255.	2.0	74
44	eIF6 coordinates insulin sensitivity and lipid metabolism by coupling translation to transcription. Nature Communications, 2015, 6, 8261.	12.8	73
45	A robust and reliable non-invasive test for stress responsivity in mice. Frontiers in Behavioral Neuroscience, 2014, 8, 125.	2.0	70
46	Systemic First-Line Phenotyping. Methods in Molecular Biology, 2009, 530, 463-509.	0.9	70
47	Mutation in the Î²A3/A1-Crystallin Encoding Gene Cryba1 Causes a Dominant Cataract in the Mouse. Genomics, 1999, 62, 67-73.	2.9	67
48	Human and mouse essentiality screens as a resource for disease gene discovery. Nature Communications, 2020, 11, 655.	12.8	64
49	Sex-Dependent Susceptibility to Listeria monocytogenes Infection Is Mediated by Differential Interleukin-10 Production. Infection and Immunity, 2005, 73, 5952-5960.	2.2	63
50	Cytochromecoxidase subunit 4 isoform 2â€knockout mice show reduced enzyme activity, airway hyporeactivity, and lung pathology. FASEB Journal, 2012, 26, 3916-3930.	0.5	62
51	Assessing Cognition in Mice. Current Protocols in Mouse Biology, 2015, 5, 331-358.	1.2	61
52	Endogenous FGF21-signaling controls paradoxical obesity resistance of UCP1-deficient mice. Nature Communications, 2020, 11, 624.	12.8	60
53	Identification of genetic elements in metabolism by high-throughput mouse phenotyping. Nature Communications, 2018, 9, 288.	12.8	59
54	Characterization of Phospholipase CÎ³ Enzymes with Gain-of-Function Mutations. Journal of Biological Chemistry, 2009, 284, 23083-23093.	3.4	58

#	Article	IF	Citations
55	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.	2.9	57
56	Phenotypic comparison of common mouse strains developing high-fat diet-induced hepatosteatosis. Molecular Metabolism, 2013, 2, 435-446.	6.5	57
57	The Novel Mouse Mutation Oblivion Inactivates the PMCA2 Pump and Causes Progressive Hearing Loss. PLoS Genetics, 2008, 4, e1000238.	3.5	56
58	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.	2.5	56
59	Peroxidasin is essential for eye development in the mouse. Human Molecular Genetics, 2014, 23, 5597-5614.	2.9	55
60	Alternative oxidaseâ€mediated respiration prevents lethal mitochondrial cardiomyopathy. EMBO Molecular Medicine, 2019, 11, .	6.9	53
61	Characterization of a Mutation in the Lens-specific MP70 Encoding Gene of the Mouse Leading to a Dominant Cataract. Experimental Eye Research, 2001, 73, 867-876.	2.6	52
62	Clinical Chemistry Reference Intervals for C57BL/6J, C57BL/6N, and C3HeB/FeJ Mice (Mus musculus). Journal of the American Association for Laboratory Animal Science, 2016, 55, 375-86.	1.2	52
63	Electroretinography as a Screening Method for Mutations Causing Retinal Dysfunction in Mice. , 2004, 45, 601.		51
64	Srgap3 ^{â€“/â€“} mice present a neurodevelopmental disorder with schizophreniaâ€related intermediate phenotypes. FASEB Journal, 2012, 26, 4418-4428.	0.5	51
65	METTL6 is a tRNA m ³ C methyltransferase that regulates pluripotency and tumor cell growth. Science Advances, 2020, 6, eaaz4551.	10.3	51
66	Loss of the Actin Remodeler Eps8 Causes Intestinal Defects and Improved Metabolic Status in Mice. PLoS ONE, 2010, 5, e9468.	2.5	50
67	Mechanisms Controlling Anaemia in Trypanosoma congolense Infected Mice. PLoS ONE, 2009, 4, e5170.	2.5	49
68	A Myo7a mutation cosegregates with stereocilia defects and low-frequency hearing impairment. Mammalian Genome, 2004, 15, 686-697.	2.2	48
69	Prdm5 Regulates Collagen Gene Transcription by Association with RNA Polymerase II in Developing Bone. PLoS Genetics, 2012, 8, e1002711.	3.5	48
70	IFIT2 Is an Effector Protein of Type I IFNâ€“Mediated Amplification of Lipopolysaccharide (LPS)-Induced TNF-Î± Secretion and LPS-Induced Endotoxin Shock. Journal of Immunology, 2013, 191, 3913-3921.	0.8	48
71	Laboratory mouse housing conditions can be improved using common environmental enrichment without compromising data. PLoS Biology, 2018, 16, e2005019.	5.6	48
72	Irp2 regulates insulin production through iron-mediated Cdkal1-catalyzed tRNA modification. Nature Communications, 2020, 11, 296.	12.8	48

#	Article	IF	Citations
73	Epigallocatechin gallate (EGCG) reduces the intensity of pancreatic amyloid fibrils in human islet amyloid polypeptide (hIAPP) transgenic mice. Scientific Reports, 2018, 8, 1116.	3.3	47
74	Broad AOX expression in a genetically tractable mouse model does not disturb normal physiology. DMM Disease Models and Mechanisms, 2017, 10, 163-171.	2.4	46
75	A Novel Missense Mutation in the Mouse Growth Hormone Gene Causes Semidominant Dwarfism, Hyperghrelinemia, and Obesity. Endocrinology, 2004, 145, 2531-2541.	2.8	45
76	Abnormal Brain Iron Metabolism in Irp2 Deficient Mice Is Associated with Mild Neurological and Behavioral Impairments. PLoS ONE, 2014, 9, e98072.	2.5	45
77	A novel Nâ€ethylâ€Nâ€nitrosoureaâ€“induced mutation in phospholipase Cî³2 causes inflammatory arthritis, metabolic defects, and male infertility in vitro in a murine model. Arthritis and Rheumatism, 2011, 63, 1301-1311.	6.7	43
78	Clinical Chemistry and Other Laboratory Tests on Mouse Plasma or Serum. Current Protocols in Mouse Biology, 2013, 3, 69-100.	1.2	42
79	"Sighted C3H" mice - a tool for analysing the influence of vision on mouse behaviour?. Frontiers in Bioscience - Landmark, 2008, Volume, 5810.	3.0	41
80	Novel missense mutation of uromodulin in mice causes renal dysfunction with alterations in urea handling, energy, and bone metabolism. American Journal of Physiology - Renal Physiology, 2009, 297, F1391-F1398.	2.7	41
81	Innovations in phenotyping of mouse models in the German Mouse Clinic. Mammalian Genome, 2012, 23, 611-622.	2.2	40
82	<scp>M</scp>i<scp>R</scp>â€34a deficiency accelerates medulloblastoma formation in vivo. International Journal of Cancer, 2015, 136, 2293-2303.	5.1	40
83	Screening for dysmorphological abnormalitiesâ€”a powerful tool to isolate new mouse mutants. Mammalian Genome, 2000, 11, 528-530.	2.2	38
84	Genomewide Linkage Analysis Identifies Novel Genetic Loci for Lung Function in Mice. American Journal of Respiratory and Critical Care Medicine, 2005, 171, 880-888.	5.6	38
85	Three NovelPax6Alleles in the Mouse Leading to the Same Small-Eye Phenotype Caused by Different Consequences at Target Promoters. , 2005, 46, 4671.		38
86	Functional compensation among HMGN variants modulates the DNase I hypersensitive sites at enhancers. Genome Research, 2015, 25, 1295-1308.	5.5	38
87	Tests for Anxietyâ€Related Behavior in Mice. Current Protocols in Mouse Biology, 2015, 5, 291-309.	1.2	38
88	Tailchaser (Tlc): a new mouse mutation affecting hair bundle differentiation and hair cell survival. Journal of Neurocytology, 1999, 28, 969-985.	1.5	37
89	High Mobility Group N Proteins Modulate the Fidelity of the Cellular Transcriptional Profile in a Tissue- and Variant-specific Manner. Journal of Biological Chemistry, 2013, 288, 16690-16703.	3.4	37
90	Microphthalmia, parkinsonism, and enhanced nociception in Pitx3 416insG mice. Mammalian Genome, 2010, 21, 13-27.	2.2	36

#	Article	IF	Citations
91	A Broad Phenotypic Screen Identifies Novel Phenotypes Driven by a Single Mutant Allele in Huntingtonâ€™s Disease CAG Knock-In Mice. PLoS ONE, 2013, 8, e80923.	2.5	36
92	Interplay between H1 and HMGN epigenetically regulates OLIG1&2 expression and oligodendrocyte differentiation. Nucleic Acids Research, 2017, 45, 3031-3045.	14.5	36
93	Pleiotropic effects in Eya3knockout mice. BMC Developmental Biology, 2008, 8, 118.	2.1	35
94	Mutation of the Na+-K+-2Clâ^'cotransporter NKCC2 in mice is associated with severe polyuria and a urea-selective concentrating defect without hyperreninemia. American Journal of Physiology - Renal Physiology, 2010, 298, F1405-F1415.	2.7	35
95	Mouse Nuclear Myosin I Knock-Out Shows Interchangeability and Redundancy of Myosin Isoforms in the Cell Nucleus. PLoS ONE, 2013, 8, e61406.	2.5	35
96	Bezafibrate Improves Insulin Sensitivity and Metabolic Flexibility in STZ-Induced Diabetic Mice. Diabetes, 2016, 65, 2540-2552.	0.6	35
97	Multiple Quantitative Trait Loci Modify Cochlear Hair Cell Degeneration in the Beethoven (Tmc1Bth) Mouse Model of Progressive Hearing Loss DFNA36. Genetics, 2006, 173, 2111-2119.	2.9	34
98	CIN85 regulates dopamine receptor endocytosis and governs behaviour in mice. EMBO Journal, 2010, 29, 2421-2432.	7.8	34
99	Neurobeachin, a Regulator of Synaptic Protein Targeting, Is Associated with Body Fat Mass and Feeding Behavior in Mice and Body-Mass Index in Humans. PLoS Genetics, 2012, 8, e1002568.	3.5	33
100	Long-term proteasomal inhibition in transgenic mice by UBB+1 expression results in dysfunction of central respiration control reminiscent of brainstem neuropathology in Alzheimer patients. Acta Neuropathologica, 2012, 124, 187-197.	7.7	33
101	Systematic, standardized and comprehensive neurological phenotyping of inbred mice strains in the German Mouse Clinic. Journal of Neuroscience Methods, 2006, 157, 82-90.	2.5	32
102	Morphologic and molecular characterization of two novel Krt71 (Krt2-6g) mutations: Krt71 rco12 and Krt71 rco13. Mammalian Genome, 2006, 17, 1172-1182.	2.2	31
103	Catweasel mice: A novel role for Six1 in sensory patch development and a model for branchio-oto-renal syndrome. Developmental Biology, 2009, 328, 285-296.	2.0	31
104	Differential Effects of Neurofibromin Gene Dosage on Melanocyte Development. Journal of Investigative Dermatology, 2013, 133, 49-58.	0.7	31
105	Understanding gene functions and disease mechanisms: Phenotyping pipelines in the German Mouse Clinic. Behavioural Brain Research, 2018, 352, 187-196.	2.2	31
106	Neurological phenotype and reduced lifespan in heterozygous Tim23 knockout mice, the first mouse model of defective mitochondrial import. Biochimica Et Biophysica Acta - Bioenergetics, 2009, 1787, 371-376.	1.0	30
107	New mouse models for metabolic bone diseases generated by genome-wide ENU mutagenesis. Mammalian Genome, 2012, 23, 416-430.	2.2	30
108	Hyperexcitable interneurons trigger cortical spreading depression in an Scn1a migraine model. Journal of Clinical Investigation, 2021, 131, .	8.2	30

#	Article	IF	Citations
109	Systematic gene expression profiling of mouse model series reveals coexpressed genes. Proteomics, 2008, 8, 1248-1256.	2.2	28
110	Exome sequencing identifies a nonsense mutation in Fam46a associated with bone abnormalities in a new mouse model for skeletal dysplasia. Mammalian Genome, 2016, 27, 111-121.	2.2	27
111	Bezafibrate ameliorates diabetes via reduced steatosis and improved hepatic insulin sensitivity in diabetic TallyHo mice. Molecular Metabolism, 2017, 6, 256-266.	6.5	27
112	Gain-of-function mutations in a member of the Src family kinases cause autoinflammatory bone disease in mice and humans. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 201819825.	7.1	27
113	Immune modulation by Fas ligand reverse signaling: lymphocyte proliferation is attenuated by the intracellular Fas ligand domain. Blood, 2011, 117, 519-529.	1.4	26
114	Type of uromodulin mutation and allelic status influence onset and severity of uromodulin-associated kidney disease in mice. Human Molecular Genetics, 2013, 22, 4148-4163.	2.9	26
115	High-throughput phenotypic assessment of cardiac physiology in four commonly used inbred mouse strains. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2014, 184, 763-775.	1.5	26
116	Comparison of particle-exposure triggered pulmonary and systemic inflammation in mice fed with three different diets. Particle and Fibre Toxicology, 2011, 8, 30.	6.2	25
117	Conditional Reduction of Adult Born Doublecortin-Positive Neurons Reversibly Impairs Selective Behaviors. Frontiers in Behavioral Neuroscience, 2015, 9, 302.	2.0	25
118	Meis1 effects on motor phenotypes and the sensorimotor system in mice. DMM Disease Models and Mechanisms, 2017, 10, 981-991.	2.4	25
119	Offspring born to influenza A virus infected pregnant mice have increased susceptibility to viral and bacterial infections in early life. Nature Communications, 2021, 12, 4957.	12.8	25
120	Characterization of a New Mouse Mutant, Flouncer, with a Balance Defect and Inner Ear Malformation. Otology and Neurotology, 2004, 25, 707-713.	1.3	24
121	New ENU-induced semidominant mutation, Ali18, causes inflammatory arthritis, dermatitis, and osteoporosis in the mouse. Mammalian Genome, 2006, 17, 915-926.	2.2	24
122	The mouse Trm1-like gene is expressed in neural tissues and plays a role in motor coordination and exploratory behaviour. Gene, 2007, 389, 174-185.	2.2	24
123	Mutation in a Novel Connexin-like Gene (Gjf1) in the Mouse Affects Early Lens Development and Causes a Variable Small-Eye Phenotype. , 2008, 49, 1525.		24
124	SMC6 is an essential gene in mice, but a hypomorphic mutant in the ATPase domain has a mild phenotype with a range of subtle abnormalities. DNA Repair, 2013, 12, 356-366.	2.8	24
125	An ENU Mutagenesis-Derived Mouse Model with a Dominant Jak1 Mutation Resembling Phenotypes of Systemic Autoimmune Disease. American Journal of Pathology, 2013, 183, 352-368.	3.8	24
126	New Mutation in the Mouse Xpd/Ercc2 Gene Leads to Recessive Cataracts. PLoS ONE, 2015, 10, e0125304.	2.5	24

#	Article	IF	Citations
127	Male offspring born to mildly ZIKV-infected mice are at risk of developing neurocognitive disorders in adulthood. Nature Microbiology, 2018, 3, 1161-1174.	13.3	24
128	V76D mutation in a conserved gD-crystallin region leads to dominant cataracts in mice. Mammalian Genome, 2002, 13, 452-455.	2.2	23
129	Blood Collection from Mice and Hematological Analyses on Mouse Blood. Current Protocols in Mouse Biology, 2013, 3, 101-119.	1.2	23
130	The Role of Fibroblast Growth Factor-Binding Protein 1 in Skin Carcinogenesis and Inflammation. Journal of Investigative Dermatology, 2018, 138, 179-188.	0.7	23
131	MouseNetÂ© database: digital management of a large-scale mutagenesis project. Mammalian Genome, 2000, 11, 590-593.	2.2	22
132	A Genetic Screen for Modifiers of the Delta1-Dependent Notch Signaling Function in the Mouse. Genetics, 2007, 175, 1451-1463.	2.9	22
133	MausDB: An open source application for phenotype data and mouse colony management in large-scale mouse phenotyping projects. BMC Bioinformatics, 2008, 9, 169.	2.6	22
134	The hepatic phosphatidylcholine transporter ABCB4 as modulator of glucose homeostasis. FASEB Journal, 2012, 26, 5081-5091.	0.5	22
135	A comprehensive and comparative phenotypic analysis of the collaborative founder strains identifies new and known phenotypes. Mammalian Genome, 2020, 31, 30-48.	2.2	22
136	Extensive identification of genes involved in congenital and structural heart disorders and cardiomyopathy. , 2022, 1, 157-173.		22
137	An ENU-induced mutation in AP-2Î± leads to middle earand ocular defects in Doarad mice. Mammalian Genome, 2004, 15, 424-432.	2.2	20
138	Modeling hepatic osteodystrophy in Abcb4 deficient mice. Bone, 2013, 55, 501-511.	2.9	20
139	Mesenchymal TNFR2 promotes the development of polyarthritis and comorbid heart valve stenosis. JCI Insight, 2018, 3, .	5.0	20
140	Mouse mutant phenotyping at scale reveals novel genes controlling bone mineral density. PLoS Genetics, 2020, 16, e1009190.	3.5	19
141	Sphingomyelin Synthase 1 Is Essential for Male Fertility in Mice. PLoS ONE, 2016, 11, e0164298.	2.5	19
142	Hush Puppy: A New Mouse Mutant With Pinna, Ossicle, and Inner Ear Defects. Laryngoscope, 2005, 115, 116-124.	2.0	18
143	The transcription factor Smad-interacting protein 1 controls pain sensitivity via modulation of DRG neuron excitability. Pain, 2011, 152, 2384-2398.	4.2	18
144	Glucose Tolerance Tests for Systematic Screening of Glucose Homeostasis in Mice. Current Protocols in Mouse Biology, 2015, 5, 65-84.	1.2	18

#	Article	IF	Citations
145	Improved efficacy of allergen-specific immunotherapy by JAK inhibition in a murine model of allergic asthma. PLoS ONE, 2017, 12, e0178563.	2.5	18
146	A Mouse Keratin 1 Mutation Causes Dark Skin and Epidermolytic Hyperkeratosis. Journal of Investigative Dermatology, 2006, 126, 1013-1016.	0.7	17
147	Dll1 Haploinsufficiency in Adult Mice Leads to a Complex Phenotype Affecting Metabolic and Immunological Processes. PLoS ONE, 2009, 4, e6054.	2.5	17
148	MTO1-Deficient Mouse Model Mirrors the Human Phenotype Showing Complex I Defect and Cardiomyopathy. PLoS ONE, 2014, 9, e114918.	2.5	17
149	High levels of eukaryotic Initiation Factor 6 (eIF6) are required for immune system homeostasis and for steering the glycolytic flux of TCR-stimulated CD4+ T cells in both mice and humans. Developmental and Comparative Immunology, 2017, 77, 69-76.	2.3	17
150	Melanocyte development in the mouse tail epidermis requires the Adamts9 metalloproteinase. Pigment Cell and Melanoma Research, 2018, 31, 693-707.	3.3	17
151	A mouse model for intellectual disability caused by mutations in the X-linked 2â€²â€²Oâ€²methyltransferase Ftsj1 gene. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 2083-2093.	3.8	17
152	CIP2A Promotes T-Cell Activation and Immune Response to Listeria monocytogenes Infection. PLoS ONE, 2016, 11, e0152996.	2.5	17
153	The novel mouse microphthalmia mutations Mitfmi-enu5 and Mitfmi-bcc2 produce dominant negative Mitf proteins. Genomics, 2004, 83, 932-935.	2.9	16
154	Two new mouse mutants with vestibular defects that map to the highly mutable locus on chromosome 4 Dos nuevos ratones mutantes con defectos vestibulares hallados en el altamente mutable locus del cromosoma 4. International Journal of Audiology, 2005, 44, 171-177.	1.7	16
155	Power matters in closing the phenotyping gap. Die Naturwissenschaften, 2007, 94, 401-406.	1.6	16
156	Pleiotropic Functions for Transcription Factor Zscan10. PLoS ONE, 2014, 9, e104568.	2.5	16
157	KIT is required for hepatic function during mouse post-natal development. BMC Developmental Biology, 2007, 7, 81.	2.1	15
158	Genetically Controlled Lysosomal Entrapment of Superparamagnetic Ferritin for Multimodal and Multiscale Imaging and Actuation with Low Tissue Attenuation. Advanced Functional Materials, 2018, 28, 1706793.	14.9	15
159	Ethylnitrosourea-Induced Mutation in Mice Leads to the Expression of a Novel Protein in the Eye and to Dominant Cataracts. Genetics, 2001, 157, 1313-1320.	2.9	15
160	The Endocytic Adaptor Eps15 Controls Marginal Zone B Cell Numbers. PLoS ONE, 2012, 7, e50818.	2.5	15
161	Identification of a Keratin 4 Mutation in a Chemically Induced Mouse Mutant that Models White Sponge Nevus. Journal of Investigative Dermatology, 2007, 127, 60-64.	0.7	14
162	A NewFgf10Mutation in the Mouse Leads to Atrophy of the Harderian Gland and Slit-Eye Phenotype in Heterozygotes: A Novel Model for Dry-Eye Disease?. , 2009, 50, 4311.		14

#	Article	IF	Citations
163	Endothelial amine oxidase AOC3 transiently contributes to adaptive immune responses in the airways. European Journal of Immunology, 2014, 44, 3232-3239.	2.9	14
164	RNase H2 Loss in Murine Astrocytes Results in Cellular Defects Reminiscent of Nucleic Acid-Mediated Autoinflammation. Frontiers in Immunology, 2018, 9, 587.	4.8	14
165	Generation and Standardized, Systemic Phenotypic Analysis of Pou3f3L423P Mutant Mice. PLoS ONE, 2016, 11, e0150472.	2.5	14
166	Defective immuno- and thymoproteasome assembly causes severe immunodeficiency. Scientific Reports, 2018, 8, 5975.	3.3	13
167	Cognitive impairment and autistic-like behaviour in SAPAP4-deficient mice. Translational Psychiatry, 2019, 9, 7.	4.8	13
168	Low catalytic activity is insufficient to induce disease pathology in triosephosphate isomerase deficiency. Journal of Inherited Metabolic Disease, 2019, 42, 839-849.	3.6	13
169	Crybb2 Mutations Consistently Affect Schizophrenia Endophenotypes in Mice. Molecular Neurobiology, 2019, 56, 4215-4230.	4.0	13
170	Spectral domain - Optical coherence tomography (SD-OCT) as a monitoring tool for alterations in mouse lenses. Experimental Eye Research, 2020, 190, 107871.	2.6	13
171	Overexpression of the mitochondrial methyltransferase TFB1M in the mouse does not impact mitoribosomal methylation status or hearing. Human Molecular Genetics, 2015, 24, 7286-7294.	2.9	12
172	Serum Response Factor (SRF) Ablation Interferes with Acute Stress-Associated Immediate and Long-Term Coping Mechanisms. Molecular Neurobiology, 2017, 54, 8242-8262.	4.0	12
173	The <scp>BEACH</scp> protein <scp>LRBA</scp> is required for hair bundle maintenance in cochlear hair cells and for hearing. EMBO Reports, 2017, 18, 2015-2029.	4.5	12
174	Female mice lacking Pald1 exhibit endothelial cell apoptosis and emphysema. Scientific Reports, 2017, 7, 15453.	3.3	12
175	Analysis of locomotor behavior in the German Mouse Clinic. Journal of Neuroscience Methods, 2018, 300, 77-91.	2.5	12
176	In-depth phenotyping reveals common and novel disease symptoms in a hemizygous knock-in mouse model (Mut-ko/ki) of mut-type methylmalonic aciduria. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2020, 1866, 165622.	3.8	12
177	Increased estrogen to androgen ratio enhances immunoglobulin levels and impairs B cell function in male mice. Scientific Reports, 2020, 10, 18334.	3.3	12
178	In Vivo Functional Requirement of the Mouse Ifitm1 Gene for Germ Cell Development, Interferon Mediated Immune Response and Somitogenesis. PLoS ONE, 2012, 7, e44609.	2.5	11
179	Fgf9 Y162C Mutation Alters Information Processing and Social Memory in Mice. Molecular Neurobiology, 2018, 55, 4580-4595.	4.0	11
180	Mutation inBmpr1bLeads to Optic Disc Coloboma and Ventral Retinal Gliosis in Mice. , 2020, 61, 44.		11

#	Article	IF	Citations
181	Disruption of paternal circadian rhythm affects metabolic health in male offspring via nongerm cell factors. Science Advances, 2021, 7, .	10.3	11
182	Creld1 regulates myocardial development and function. Journal of Molecular and Cellular Cardiology, 2021, 156, 45-56.	1.9	11
183	A truncating Aspm allele leads to a complex cognitive phenotype and region-specific reductions in parvalbuminergic neurons. Translational Psychiatry, 2020, 10, 66.	4.8	11
184	Screening for Bone and Cartilage Phenotypes in Mice. , 0, , 35-86.		10
185	Mildly compromised tetrahydrobiopterin cofactor biosynthesis due to Pts variants leads to unusual body fat distribution and abdominal obesity in mice. Journal of Inherited Metabolic Disease, 2016, 39, 309-319.	3.6	10
186	The heterozygous R155C VCP mutation: Toxic in humans! Harmless in mice?. Biochemical and Biophysical Research Communications, 2018, 503, 2770-2777.	2.1	9
187	The First Scube3 Mutant Mouse Line with Pleiotropic Phenotypic Alterations. G3: Genes, Genomes, Genetics, 2016, 6, 4035-4046.	1.8	9
188	Mice lacking the mitochondrial exonuclease MGME1 develop inflammatory kidney disease with glomerular dysfunction. PLoS Genetics, 2022, 18, e1010190.	3.5	9
189	Standardized, Systemic Phenotypic Analysis of UmodC93F and UmodA227T Mutant Mice. PLoS ONE, 2013, 8, e78337.	2.5	8
190	Standardized, systemic phenotypic analysis reveals kidney dysfunction as main alteration of Kctd1 I27N mutant mice. Journal of Biomedical Science, 2017, 24, 57.	7.0	8
191	Clinical Chemistry of Congenic Mice with Quantitative Trait Loci for Predicted Responses to Trypanosoma congolense Infection. Infection and Immunity, 2009, 77, 3948-3957.	2.2	7
192	Liver lipid metabolism is altered by increased circulating estrogen to androgen ratio in male mouse. Journal of Proteomics, 2016, 133, 66-75.	2.4	7
193	On the Nature of Murine Radiation-Induced Subcapsular Cataracts: Optical Coherence Tomography-Based Fine Classification, In Vivo Dynamics and Impact on Visual Acuity. Radiation Research, 2021, 197, .	1.5	7
194	Does enamelin have pleiotropic effects on organs other than the teeth? Lessons from a phenotyping screen of two enamelinâ€mutant mouse lines. European Journal of Oral Sciences, 2012, 120, 269-277.	1.5	6
195	Standardized, systemic phenotypic analysis of Slc12a1 I299F mutant mice. Journal of Biomedical Science, 2014, 21, 68.	7.0	6
196	Principles and application of LIMS in mouse clinics. Mammalian Genome, 2015, 26, 467-481.	2.2	6
197	Novel small-eye allele in paired box gene 6 (Pax6) is caused by a point mutation in intron 7 and creates a new exon. Molecular Vision, 2013, 19, 877-84.	1.1	6
198	Long-term experiment to study the development, interaction, and influencing factors of DEXA parameters. Mammalian Genome, 2013, 24, 376-388.	2.2	5

#	Article	IF	Citations
199	Viable Ednra Y129F mice feature human mandibulofacial dysostosis with alopecia (MFDA) syndrome due to the homologue mutation. Mammalian Genome, 2016, 27, 587-598.	2.2	5
200	Streptozotocin-induced Î²-cell damage, high fat diet, and metformin administration regulate Hes3 expression in the adult mouse brain. Scientific Reports, 2018, 8, 11335.	3.3	5
201	Dusp8 affects hippocampal size and behavior in mice and humans. Scientific Reports, 2019, 9, 19483.	3.3	5
202	Cox4i2, Ifit2, and Prdm11 Mutant Mice: Effective Selection of Genes Predisposing to an Altered Airway Inflammatory Response from a Large Compendium of Mutant Mouse Lines. PLoS ONE, 2015, 10, e0134503.	2.5	5
203	Characterising a homozygous twoâ€exon deletion in UQCRH : comparing human and mouse phenotypes. EMBO Molecular Medicine, 2021, 13, e14397.	6.9	5
204	The inner ear phenotype of Volchok (Vlk): An ENU-induced mouse model for CHARGE syndrome. Audiological Medicine, 2010, 8, 110-119.	0.4	4
205	Big data in large-scale systemic mouse phenotyping. Current Opinion in Systems Biology, 2017, 4, 97-104.	2.6	4
206	Mutation in the mouse histone gene Hist2h3c1 leads to degeneration of the lens vesicle and severe microphthalmia. Experimental Eye Research, 2019, 188, 107632.	2.6	4
207	A comprehensive phenotypic characterization of a whole-body Wdr45 knock-out mouse. Mammalian Genome, 2021, 32, 332-349.	2.2	4
208	N471D WASH complex subunit strumpellin knockâ€in mice display mild motor and cardiac abnormalities and BPTF and KLHL11 dysregulation in brain tissue. Neuropathology and Applied Neurobiology, 2022, 48, .	3.2	4
209	Dietary intervention improves health metrics and life expectancy of the genetically obese Titan mouse. Communications Biology, 2022, 5, 408.	4.4	4
210	In vitro analysis of bone phenotypes in Col1a1 and Jagged1 mutant mice using a standardized osteoblast cell culture system. Journal of Bone and Mineral Metabolism, 2013, 31, 293-303.	2.7	3
211	Uromodulin Retention in Thick Ascending Limb of Henle's Loop Affects SCD1 in Neighboring Proximal Tubule: Renal Transcriptome Studies in Mouse Models of Uromodulin-Associated Kidney Disease. PLoS ONE, 2014, 9, e113125.	2.5	3
212	Screen for alterations of iron related parameters in N-ethyl-N-nitrosourea-treated mice identified mutant lines with increased plasma ferritin levels. BioMetals, 2015, 28, 293-306.	4.1	3
213	Costs of Implementing Quality in Research Practice. Handbook of Experimental Pharmacology, 2019, 257, 399-423.	1.8	3
214	Physiological relevance of the neuronal isoform of inositol-1,4,5-trisphosphate 3-kinases in mice. Neuroscience Letters, 2020, 735, 135206.	2.1	3
215	Ionising radiation causes vision impairment in neonatal B6C3F1 mice. Experimental Eye Research, 2021, 204, 108432.	2.6	3
216	Post-synaptic scaffold protein TANC2 in psychiatric and somatic disease risk. DMM Disease Models and Mechanisms, 2022, 15, .	2.4	3

#	Article	IF	Citations
217	Metabolic phenotyping of mouse mutants in the German Mouse Clinic. Integrative Zoology, 2006, 1, 122-125.	2.6	2
218	The German Mouse Clinic â€“ Running an Open Access Platform. , 2011, , 11-44.		2
219	High throughput phenotyping of left and right ventricular cardiomyopathy in calcineurin transgene mice. International Journal of Cardiovascular Imaging, 2015, 31, 669-679.	1.5	2
220	Extensive phenotypic characterization of a new transgenic mouse reveals pleiotropic perturbations in physiology due to mesenchymal hGH minigene expression. Scientific Reports, 2017, 7, 2397.	3.3	2
221	Data on the effects of eIF6 downmodulation on the proportions of innate and adaptive immune system cell subpopulations and on thymocyte maturation. Data in Brief, 2017, 14, 653-658.	1.0	2
222	Diabetes type 2 risk gene Dusp8 is associated with altered sucrose reward behavior in mice and humans. Brain and Behavior, 2021, 11, e01928.	2.2	2
223	Mouse Genetics and Metabolic Mouse Phenotyping. , 2012, , 85-106.		1
224	04.17â€…Tnf^{Î”}^{are/+}: a multimorbidity model of spondyloarthropathies. , 2017, , .		0
225	Murine tissue factor disulfide mutation causes a bleeding phenotype with sex specific organ pathology and lethality. Haematologica, 2020, 105, 2484-2495.	3.5	0
226	Animal welfare. , 2022, , 81-111.		0