

Lore Becker

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5693449/publications.pdf>

Version: 2024-02-01

88
papers

5,368
citations

117625

34
h-index

88630

70
g-index

91
all docs

91
docs citations

91
times ranked

9726
citing authors

#	ARTICLE	IF	CITATIONS
1	A Humanized Version of Foxp2 Affects Cortico-Basal Ganglia Circuits in Mice. <i>Cell</i> , 2009, 137, 961-971.	28.9	555
2	Aberrant methylation of tRNA links cellular stress to neurodevelopmental disorders. <i>EMBO Journal</i> , 2014, 33, 2020-2039.	7.8	490
3	A comparative phenotypic and genomic analysis of C57BL/6J and C57BL/6N mouse strains. <i>Genome Biology</i> , 2013, 14, R82.	9.6	403
4	Post-Stroke Inhibition of Induced NADPH Oxidase Type 4 Prevents Oxidative Stress and Neurodegeneration. <i>PLoS Biology</i> , 2010, 8, e1000479.	5.6	377
5	Rapamycin extends murine lifespan but has limited effects on aging. <i>Journal of Clinical Investigation</i> , 2013, 123, 3272-3291.	8.2	333
6	Neuron-glia communication via EphA4/ephrin-A3 modulates LTP through glial glutamate transport. <i>Nature Neuroscience</i> , 2009, 12, 1285-1292.	14.8	258
7	Introducing the German Mouse Clinic: open access platform for standardized phenotyping. <i>Nature Methods</i> , 2005, 2, 403-404.	19.0	176
8	Neuronal 3,5-Triiodothyronine (T ₃) Uptake and Behavioral Phenotype of Mice Deficient in Mct8, the Neuronal T ₃ Transporter Mutated in Allan-Herndon-Dudley Syndrome. <i>Journal of Neuroscience</i> , 2009, 29, 9439-9449.	3.6	172
9	Analysis of mammalian gene function through broad-based phenotypic screens across a consortium of mouse clinics. <i>Nature Genetics</i> , 2015, 47, 969-978.	21.4	137
10	Mouse phenotyping. <i>Methods</i> , 2011, 53, 120-135.	3.8	128
11	Life span extension by targeting a link between metabolism and histone acetylation in <i>Drosophila</i> . <i>EMBO Reports</i> , 2016, 17, 455-469.	4.5	116
12	Mitochondrial Dysfunction and Decrease in Body Weight of a Transgenic Knock-in Mouse Model for TDP-43. <i>Journal of Biological Chemistry</i> , 2014, 289, 10769-10784.	3.4	100
13	Spinal poly-GA inclusions in a C9orf72 mouse model trigger motor deficits and inflammation without neuron loss. <i>Acta Neuropathologica</i> , 2017, 134, 241-254.	7.7	99
14	The rRNA m ⁶ A methyltransferase METTL5 is involved in pluripotency and developmental programs. <i>Genes and Development</i> , 2020, 34, 715-729.	5.9	93
15	Requirement of the RNA-editing Enzyme ADAR2 for Normal Physiology in Mice. <i>Journal of Biological Chemistry</i> , 2011, 286, 18614-18622.	3.4	91
16	Every-other-day feeding extends lifespan but fails to delay many symptoms of aging in mice. <i>Nature Communications</i> , 2017, 8, 155.	12.8	87
17	MIM-Induced Membrane Bending Promotes Dendritic Spine Initiation. <i>Developmental Cell</i> , 2015, 33, 644-659.	7.0	84
18	Inhibition of LT β R signalling activates WNT-induced regeneration in lung. <i>Nature</i> , 2020, 588, 151-156.	27.8	81

#	ARTICLE	IF	CITATIONS
19	Systemic First-Line Phenotyping. <i>Methods in Molecular Biology</i> , 2009, 530, 463-509.	0.9	70
20	Cytochrome <i>c</i> oxidase subunit 4 isoform 2 knockout mice show reduced enzyme activity, airway hyporeactivity, and lung pathology. <i>FASEB Journal</i> , 2012, 26, 3916-3930.	0.5	62
21	Iron homeostasis in the brain: complete iron regulatory protein 2 deficiency without symptomatic neurodegeneration in the mouse. <i>Nature Genetics</i> , 2006, 38, 967-969.	21.4	58
22	Large-Scale Phenotyping of an Accurate Genetic Mouse Model of JNCL Identifies Novel Early Pathology Outside the Central Nervous System. <i>PLoS ONE</i> , 2012, 7, e38310.	2.5	56
23	<i>Srgap3</i> ^{+/Δ} mice present a neurodevelopmental disorder with schizophrenia-related intermediate phenotypes. <i>FASEB Journal</i> , 2012, 26, 4418-4428.	0.5	51
24	Laboratory mouse housing conditions can be improved using common environmental enrichment without compromising data. <i>PLoS Biology</i> , 2018, 16, e2005019.	5.6	48
25	Abnormal Brain Iron Metabolism in <i>Irp2</i> Deficient Mice Is Associated with Mild Neurological and Behavioral Impairments. <i>PLoS ONE</i> , 2014, 9, e98072.	2.5	45
26	Claudin-12 is not required for blood-brain barrier tight junction function. <i>Fluids and Barriers of the CNS</i> , 2019, 16, 30.	5.0	45
27	Disease-Specific Human Glycine Receptor $\hat{1}\pm 1$ Subunit Causes Hyperekplexia Phenotype and Impaired Glycine- and GABAA-Receptor Transmission in Transgenic Mice. <i>Journal of Neuroscience</i> , 2002, 22, 2505-2512.	3.6	44
28	MTO1 mediates tissue specificity of OXPHOS defects via tRNA modification and translation optimization, which can be bypassed by dietary intervention. <i>Human Molecular Genetics</i> , 2015, 24, 2247-2266.	2.9	43
29	Genes Whose Gain or Loss-Of-Function Increases Skeletal Muscle Mass in Mice: A Systematic Literature Review. <i>Frontiers in Physiology</i> , 2018, 9, 553.	2.8	43
30	"Sighted C3H" mice - a tool for analysing the influence of vision on mouse behaviour?. <i>Frontiers in Bioscience - Landmark</i> , 2008, Volume, 5810.	3.0	41
31	Innovations in phenotyping of mouse models in the German Mouse Clinic. <i>Mammalian Genome</i> , 2012, 23, 611-622.	2.2	40
32	<i>Mir34a</i> deficiency accelerates medulloblastoma formation <i>in vivo</i> . <i>International Journal of Cancer</i> , 2015, 136, 2293-2303.	5.1	40
33	High Mobility Group N Proteins Modulate the Fidelity of the Cellular Transcriptional Profile in a Tissue- and Variant-specific Manner. <i>Journal of Biological Chemistry</i> , 2013, 288, 16690-16703.	3.4	37
34	Microphthalmia, parkinsonism, and enhanced nociception in <i>Pitx3</i> 416insG mice. <i>Mammalian Genome</i> , 2010, 21, 13-27.	2.2	36
35	A Broad Phenotypic Screen Identifies Novel Phenotypes Driven by a Single Mutant Allele in Huntington's Disease CAG Knock-In Mice. <i>PLoS ONE</i> , 2013, 8, e80923.	2.5	36
36	Interplay between H1 and HMGN epigenetically regulates <i>OLIG1&2</i> expression and oligodendrocyte differentiation. <i>Nucleic Acids Research</i> , 2017, 45, 3031-3045.	14.5	36

#	ARTICLE	IF	CITATIONS
37	Pleiotropic effects in <i>Eya3</i> knockout mice. <i>BMC Developmental Biology</i> , 2008, 8, 118.	2.1	35
38	Propofol Restores the Function of α - <i>Hyperekplexic</i> Mutant Glycine Receptors in <i>Xenopus</i> Oocytes and Mice. <i>Journal of Neuroscience</i> , 2004, 24, 2322-2327.	3.6	33
39	Neurobeachin, a Regulator of Synaptic Protein Targeting, Is Associated with Body Fat Mass and Feeding Behavior in Mice and Body-Mass Index in Humans. <i>PLoS Genetics</i> , 2012, 8, e1002568.	3.5	33
40	Systematic, standardized and comprehensive neurological phenotyping of inbred mice strains in the German Mouse Clinic. <i>Journal of Neuroscience Methods</i> , 2006, 157, 82-90.	2.5	32
41	Understanding gene functions and disease mechanisms: Phenotyping pipelines in the German Mouse Clinic. <i>Behavioural Brain Research</i> , 2018, 352, 187-196.	2.2	31
42	Neurological phenotype and reduced lifespan in heterozygous <i>Tim23</i> knockout mice, the first mouse model of defective mitochondrial import. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 371-376.	1.0	30
43	Neuron-specific inactivation of <i>Wt1</i> alters locomotion in mice and changes interneuron composition in the spinal cord. <i>Life Science Alliance</i> , 2018, 1, e201800106.	2.8	28
44	Genetic Evidence for the Adhesion Protein <i>IgSF9/Dasm1</i> to Regulate Inhibitory Synapse Development Independent of its Intracellular Domain. <i>Journal of Neuroscience</i> , 2014, 34, 4187-4199.	3.6	27
45	<i>Meis1</i> effects on motor phenotypes and the sensorimotor system in mice. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 981-991.	2.4	25
46	Transient neuromotor phenotype in transgenic spastic mice expressing low levels of glycine receptor β -subunit: an animal model of startle disease. <i>European Journal of Neuroscience</i> , 2000, 12, 27-32.	2.6	24
47	The mouse <i>Trm1</i> -like gene is expressed in neural tissues and plays a role in motor coordination and exploratory behaviour. <i>Gene</i> , 2007, 389, 174-185.	2.2	24
48	<i>SMC6</i> is an essential gene in mice, but a hypomorphic mutant in the ATPase domain has a mild phenotype with a range of subtle abnormalities. <i>DNA Repair</i> , 2013, 12, 356-366.	2.8	24
49	Genes Whose Gain or Loss-of-Function Increases Endurance Performance in Mice: A Systematic Literature Review. <i>Frontiers in Physiology</i> , 2019, 10, 262.	2.8	22
50	A comprehensive and comparative phenotypic analysis of the collaborative founder strains identifies new and known phenotypes. <i>Mammalian Genome</i> , 2020, 31, 30-48.	2.2	22
51	Extensive identification of genes involved in congenital and structural heart disorders and cardiomyopathy. , 2022, 1, 157-173.		22
52	Mouse mutant phenotyping at scale reveals novel genes controlling bone mineral density. <i>PLoS Genetics</i> , 2020, 16, e1009190.	3.5	19
53	<i>Dll1</i> Haploinsufficiency in Adult Mice Leads to a Complex Phenotype Affecting Metabolic and Immunological Processes. <i>PLoS ONE</i> , 2009, 4, e6054.	2.5	17
54	<i>MTO1</i> -Deficient Mouse Model Mirrors the Human Phenotype Showing Complex I Defect and Cardiomyopathy. <i>PLoS ONE</i> , 2014, 9, e114918.	2.5	17

#	ARTICLE	IF	CITATIONS
55	A mouse model for intellectual disability caused by mutations in the X-linked 2â€™â€™methyltransferase Ftsj1 gene. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 2083-2093.	3.8	17
56	Does a Hypertrophying Muscle Fibre Reprogramme its Metabolism Similar to a Cancer Cell?. <i>Sports Medicine</i> , 2022, 52, 2569-2578.	6.5	17
57	Pleiotropic Functions for Transcription Factor Zscan10. <i>PLoS ONE</i> , 2014, 9, e104568.	2.5	16
58	RNase H2 Loss in Murine Astrocytes Results in Cellular Defects Reminiscent of Nucleic Acid-Mediated Autoinflammation. <i>Frontiers in Immunology</i> , 2018, 9, 587.	4.8	14
59	Generation and Standardized, Systemic Phenotypic Analysis of Pou3f3L423P Mutant Mice. <i>PLoS ONE</i> , 2016, 11, e0150472.	2.5	14
60	Low catalytic activity is insufficient to induce disease pathology in triosephosphate isomerase deficiency. <i>Journal of Inherited Metabolic Disease</i> , 2019, 42, 839-849.	3.6	13
61	Overexpression of the mitochondrial methyltransferase TFB1M in the mouse does not impact mitoribosomal methylation status or hearing. <i>Human Molecular Genetics</i> , 2015, 24, 7286-7294.	2.9	12
62	Serum Response Factor (SRF) Ablation Interferes with Acute Stress-Associated Immediate and Long-Term Coping Mechanisms. <i>Molecular Neurobiology</i> , 2017, 54, 8242-8262.	4.0	12
63	The <sc>BEACH</sc> protein <sc>LRBA</sc> is required for hair bundle maintenance in cochlear hair cells and for hearing. <i>EMBO Reports</i> , 2017, 18, 2015-2029.	4.5	12
64	Female mice lacking Pald1 exhibit endothelial cell apoptosis and emphysema. <i>Scientific Reports</i> , 2017, 7, 15453.	3.3	12
65	Analysis of locomotor behavior in the German Mouse Clinic. <i>Journal of Neuroscience Methods</i> , 2018, 300, 77-91.	2.5	12
66	In-depth phenotyping reveals common and novel disease symptoms in a hemizygous knock-in mouse model (Mut-ko/ki) of mut-type methylmalonic aciduria. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020, 1866, 165622.	3.8	12
67	Fgf9 Y162C Mutation Alters Information Processing and Social Memory in Mice. <i>Molecular Neurobiology</i> , 2018, 55, 4580-4595.	4.0	11
68	Rapid and transient oxygen consumption increase following acute HDAC/KDAC inhibition in <i>Drosophila</i> tissue. <i>Scientific Reports</i> , 2018, 8, 4199.	3.3	9
69	The heterozygous R155C VCP mutation: Toxic in humans! Harmless in mice?. <i>Biochemical and Biophysical Research Communications</i> , 2018, 503, 2770-2777.	2.1	9
70	CRN2 binds to TIMP4 and MMP14 and promotes perivascular invasion of glioblastoma cells. <i>European Journal of Cell Biology</i> , 2019, 98, 151046.	3.6	9
71	Soft windowing application to improve analysis of high-throughput phenotyping data. <i>Bioinformatics</i> , 2020, 36, 1492-1500.	4.1	9
72	The First Scube3 Mutant Mouse Line with Pleiotropic Phenotypic Alterations. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 4035-4046.	1.8	9

#	ARTICLE	IF	CITATIONS
73	Standardized, Systemic Phenotypic Analysis of UmodC93F and UmodA227T Mutant Mice. PLoS ONE, 2013, 8, e78337.	2.5	8
74	Standardized, systemic phenotypic analysis reveals kidney dysfunction as main alteration of Kctd1 l27N mutant mice. Journal of Biomedical Science, 2017, 24, 57.	7.0	8
75	Does enamelin have pleiotropic effects on organs other than the teeth? Lessons from a phenotyping screen of two enamelin mutant mouse lines. European Journal of Oral Sciences, 2012, 120, 269-277.	1.5	6
76	Standardized, systemic phenotypic analysis of Slc12a1 l299F mutant mice. Journal of Biomedical Science, 2014, 21, 68.	7.0	6
77	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
78	Characterising a homozygous two-exon deletion in <i>UQCRH</i> : comparing human and mouse phenotypes. EMBO Molecular Medicine, 2021, 13, e14397.	6.9	5
79	A comprehensive phenotypic characterization of a whole-body Wdr45 knock-out mouse. Mammalian Genome, 2021, 32, 332-349.	2.2	4
80	N471D WASH complex subunit strumpellin knock-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
81	Dietary intervention improves health metrics and life expectancy of the genetically obese Titan mouse. Communications Biology, 2022, 5, 408.	4.4	4
82	Physiological relevance of the neuronal isoform of inositol-1,4,5-trisphosphate 3-kinases in mice. Neuroscience Letters, 2020, 735, 135206.	2.1	3
83	Skeletal muscle phenotyping of Hippo gene-mutated mice reveals that Lats1 deletion increases the percentage of type I muscle fibers. Transgenic Research, 2022, 31, 227-237.	2.4	3
84	Post-synaptic scaffold protein TANC2 in psychiatric and somatic disease risk. DMM Disease Models and Mechanisms, 2022, 15, .	2.4	3
85	The German Mouse Clinic "Running an Open Access Platform. , 2011, , 11-44.		2
86	Mouse Genetics and Metabolic Mouse Phenotyping. , 2012, , 85-106.		1
87	Measuring and Interpreting Oxygen Consumption Rates in Whole Fly Head Segments. Journal of Visualized Experiments, 2019, , .	0.3	1
88	Mouse Models of Hyperekplexia. , 2005, , 467-477.		0