Laura G Reinholdt

List of Publications by Year
in descending order

54	4,107	236925 25	168389 53
papers	citations	h-index	g-index

67	67	67	7756
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mouse genomic variation and its effect on phenotypes and gene regulation. Nature, 2011, 477, 289-294.	27.8	1,461
2	Global genetic analysis in mice unveils central role for cilia in congenital heart disease. Nature, 2015, 521, 520-524.	27.8	357
3	Sixteen diverse laboratory mouse reference genomes define strain-specific haplotypes and novel functional loci. Nature Genetics, 2018, 50, 1574-1583.	21.4	169
4	Molecular characterization of the translocation breakpoints in the Down syndrome mouse model Ts65Dn. Mammalian Genome, 2011, 22, 685-691.	2.2	155
5	Derivation and characterization of mouse embryonic stem cells from permissive and nonpermissive strains. Nature Protocols, 2014, 9, 559-574.	12.0	143
6	Large-scale discovery of mouse transgenic integration sites reveals frequent structural variation and insertional mutagenesis. Genome Research, 2019, 29, 494-505.	5.5	130
7	High-Diversity Mouse Populations for Complex Traits. Trends in Genetics, 2019, 35, 501-514.	6.7	116
8	Positional cloning and characterization of Mei1, a vertebrate-specific gene required for normal meiotic chromosome synapsis in mice. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15706-15711.	7.1	111
9	Mutation in Mouse Hei10, an E3 Ubiquitin Ligase, Disrupts Meiotic Crossing Over. PLoS Genetics, 2007, 3, e139.	3.5	108
10	Mutation discovery in mice by whole exome sequencing. Genome Biology, 2011, 12, R86.	9.6	102
11	The Mouse Polyubiquitin Gene Ubb Is Essential for Meiotic Progression. Molecular and Cellular Biology, 2008, 28, 1136-1146.	2.3	87
12	Mitotic chromosome alignment ensures mitotic fidelity by promoting interchromosomal compaction during anaphase. Journal of Cell Biology, 2019, 218, 1148-1163.	5.2	65
13	Mei1 is epistatic to Dmc1 during mouse meiosis. Chromosoma, 2005, 114, 127-134.	2.2	64
14	Mutagenesis as an unbiased approach to identify novel contraceptive targets. Molecular and Cellular Endocrinology, 2006, 250, 201-205.	3.2	63
15	Toward the Genetics of Mammalian Reproduction: Induction and Mapping of Gametogenesis Mutants in Mice1. Biology of Reproduction, 2003, 69, 1615-1625.	2.7	61
16	Nuclear localization of PRDM9 and its role in meiotic chromatin modifications and homologous synapsis. Chromosoma, 2015, 124, 397-415.	2.2	61
17	Content and Performance of the MiniMUGA Genotyping Array: A New Tool To Improve Rigor and Reproducibility in Mouse Research. Genetics, 2020, 216, 905-930.	2.9	58
18	Exome sequencing reveals pathogenic mutations in 91 strains of mice with Mendelian disorders. Genome Research, 2015, 25, 948-957.	5.5	54

#	Article	IF	Citations
19	Kif18a is specifically required for mitotic progression during germ line development. Developmental Biology, 2015, 402, 253-262.	2.0	53
20	The Genome of C57BL/6J â€œEveâ€ the Mother of the Laboratory Mouse Genome Reference Strain. G3: Genes, Genomes, Genetics, 2019, 9, 1795-1805.	1.8	49
21	Forward Genetic Screens for Meiotic and Mitotic Recombination-Defective Mutants in Mice. , 2004, 262, 087-108.		39
22	Interrogating Congenital Heart Defects With Noninvasive Fetal Echocardiography in a Mouse Forward Genetic Screen. Circulation: Cardiovascular Imaging, 2014, 7, 31-42.	2.6	38
23	Naive Pluripotent Stem Cells Exhibit Phenotypic Variability that Is Driven by Genetic Variation. Cell Stem Cell, 2020, 27, 470-481.e6.	11.1	38
24	Discovery and characterization of spontaneous mouse models of craniofacial dysmorphology. Developmental Biology, 2016, 415, 216-227.	2.0	32
25	Biallelic mutations in the ferredoxin reductase gene cause novel mitochondriopathy with optic atrophy. Human Molecular Genetics, 2017, 26, 4937-4950.	2.9	32
26	Mapping the Effects of Genetic Variation on Chromatin State and Gene Expression Reveals Loci That Control Ground State Pluripotency. Cell Stem Cell, 2020, 27, 459-469.e8.	11.1	31
27	Mutation discovery in the mouse using genetically guided array capture and resequencing. Mammalian Genome, 2009, 20, 424-436.	2.2	29
28	Discovery of transgene insertion sites by high throughput sequencing of mate pair libraries. BMC Genomics, 2014, 15, 367.	2.8	28
29	DBA/2J Genetic Background Exacerbates Spontaneous Lethal Seizures but Lessens Amyloid Deposition in a Mouse Model of Alzheimerâ€™s Disease. PLoS ONE, 2015, 10, e0125897.	2.5	27
30	Mutations in Sterol O-Acyltransferase 1 (Soat1) Result in Hair Interior Defects in AKR/J Mice. Journal of Investigative Dermatology, 2010, 130, 2666-2668.	0.7	25
31	Biallelic mutations in FDXR cause neurodegeneration associated with inflammation. Journal of Human Genetics, 2018, 63, 1211-1222.	2.3	23
32	Meiotic behavior of aneuploid chromatin in mouse models of Down syndrome. Chromosoma, 2009, 118, 723-736.	2.2	20
33	Altered testicular gene expression patterns in mice lacking the polyubiquitin gene Ubb. Molecular Reproduction and Development, 2011, 78, 415-425.	2.0	20
34	Micronuclei in Kif18a mutant mice form stable micronuclear envelopes and do not promote tumorigenesis. Journal of Cell Biology, 2021, 220, .	5.2	20
35	BMD regulation on mouse distal chromosome 1, candidate genes, and response to ovariectomy or dietary fat. Journal of Bone and Mineral Research, 2011, 26, 88-99.	2.8	18
36	Discovery Genetics: The History and Future of Spontaneous Mutation Research. Current Protocols in Mouse Biology, 2012, 2, 103-118.	1.2	17

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37	Heritable variation in locomotion, reward sensitivity and impulsive behaviors in a genetically diverse inbred mouse panel. Genes, Brain and Behavior, 2021, 20, e12773.	2.2	17
38	The mouse gcd2 mutation causes primordial germ cell depletion. Mechanisms of Development, 2006, 123, 559-569.	1.7	13
39	Dsprul: A spontaneous mouse mutation in desmoplakin as a model of Carvajal-Huerta syndrome. Experimental and Molecular Pathology, 2015, 98, 164-172.	2.1	13
40	A missense mutation in Grm6 reduces but does not eliminate mGluR6 expression or rod depolarizing bipolar cell function. Journal of Neurophysiology, 2017, 118, 845-854.	1.8	13
41	The Mutant Mouse Resource and Research Center (MMRRC): the NIH-supported National Public Repository and Distribution Archive of Mutant Mouse Models in the USA. Mammalian Genome, 2022, 33, 203-212.	2.2	13
42	Spontaneous 8bp Deletion in Nbeal2 Recapitulates the Gray Platelet Syndrome in Mice. PLoS ONE, 2016, 11, e0150852.	2.5	13
43	A Mutation in the Nuclear Pore Complex Gene Tmem48 Causes Gametogenesis Defects in Skeletal Fusions with Sterility (sks) Mice. Journal of Biological Chemistry, 2013, 288, 31830-31841.	3.4	12
44	Mouse Genetic Reference Populations: Cellular Platforms for Integrative Systems Genetics. Trends in Genetics, 2021, 37, 251-265.	6.7	12
45	Allelic variants between mouse substrains BALB/cJ and BALB/cByJ influence mononuclear cardiomyocyte composition and cardiomyocyte nuclear ploidy. Scientific Reports, 2020, 10, 7605.	3.3	11
46	Sex-specific phenotypic effects and evolutionary history of an ancient polymorphic deletion of the human growth hormone receptor. Science Advances, 2021, 7, eabi4476.	10.3	11
47	ENUâ€induced mutant allele of Dnah1, ferf1, causes abnormal sperm behavior and fertilization failure in mice. Molecular Reproduction and Development, 2019, 86, 416-425.	2.0	10
48	CRISPRtools: a flexible computational platform for performing CRISPR/Cas9 experiments in the mouse. Mammalian Genome, 2017, 28, 283-290.	2.2	8
49	Generating Embryonic Stem Cells from the Inbred Mouse Strain DBA/2J, a Model of Glaucoma and Other Complex Diseases. PLoS ONE, 2012, 7, e50081.	2.5	8
50	The Impact of Entropy on the Spatial Organization of Synaptonemal Complexes within the Cell Nucleus. PLoS ONE, 2012, 7, e36282.	2.5	7
51	Genetic analysis of Pycr1 and Pycr2 in mice. Genetics, 2021, 218, .	2.9	6
52	High throughput sequencing approaches to mutation discovery in the mouse. Mammalian Genome, 2012, 23, 499-513.	2.2	5
53	Genetic control of the pluripotency epigenome determines differentiation bias in mouse embryonic stem cells. EMBO Journal, 2022, 41, e109445.	7.8	5
54	Meiotic chromosome missegregation during apyrene meiosis in the gypsy moth, Lymantria dispar, is preceded by an aberrant prophase I. Chromosoma, 2002, 111, 139-146.	2.2	4