Terry Magnuson

List of Publications by Year
in descending order

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139 papers	14,884 citations	22153 59 h-index	19190 118 g-index
147 all docs	147 docs citations	147 times ranked	16714 citing authors

#	Article	IF	Citations
1	Targeted Disruption of Mouse EGF receptor: Effect of Genetic Background on Mutant Phenotype. Science, 1995, 269, 230-234.	12.6	1,349
2	Systematic Discovery of Xist RNA Binding Proteins. Cell, 2015, 161, 404-416.	28.9	886
3	A Brg1 Null Mutation in the Mouse Reveals Functional Differences among Mammalian SWI/SNF Complexes. Molecular Cell, 2000, 6, 1287-1295.	9.7	743
4	Lumican Regulates Collagen Fibril Assembly: Skin Fragility and Corneal Opacity in the Absence of Lumican. Journal of Cell Biology, 1998, 141, 1277-1286.	5.2	697
5	The Knockout Mouse Project. Nature Genetics, 2004, 36, 921-924.	21.4	556
6	Genetic deletion of a neural cell adhesion molecule variant (N-CAM-180) produces distinct defects in the central nervous system. Neuron, 1993, 11, 1163-1174.	8.1	466
7	N-CAM mutation inhibits tangential neuronal migration and is phenocopied by enzymatic removal of polysialic acid. Neuron, 1994, 13, 595-609.	8.1	397
8	Topoisomerases facilitate transcription of long genes linked to autism. Nature, 2013, 501, 58-62.	27.8	360
9	The Role of Polysialic Acid in Migration of Olfactory Bulb Interneuron Precursors in the Subventricular Zone. Neuron, 1996, 16, 735-743.	8.1	352
10	The Murine Polycomb Group Protein Eed Is Required for Global Histone H3 Lysine-27 Methylation. Current Biology, 2005, 15, 942-947.	3.9	319
11	Polycomb Repressive Complex 2 Is Dispensable for Maintenance of Embryonic Stem Cell Pluripotency. Stem Cells, 2008, 26, 1496-1505.	3.2	310
12	Imprinted X inactivation maintained by a mouse Polycomb group gene. Nature Genetics, 2001, 28, 371-375.	21.4	307
13	Maternal BRG1 regulates zygotic genome activation in the mouse. Genes and Development, 2006, 20, 1744-1754.	5.9	293
14	Mice mutant for Egfr and Shp2 have defective cardiac semilunar valvulogenesis. Nature Genetics, 2000, 24, 296-299.	21.4	268
15	UTX and UTY Demonstrate Histone Demethylase-Independent Function in Mouse Embryonic Development. PLoS Genetics, 2012, 8, e1002964.	3.5	253
16	Primitive streak formation in mice is preceded by localized activation of Brachyury and Wnt3. Developmental Biology, 2005, 288, 363-371.	2.0	247
17	Coexistent ARID1Aâ€“PIK3CA mutations promote ovarian clear-cell tumorigenesis through pro-tumorigenic inflammatory cytokine signalling. Nature Communications, 2015, 6, 6118.	12.8	247
18	Genome imprinting regulated by the mouse Polycomb group protein Eed. Nature Genetics, 2003, 33, 502-507.	21.4	235

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19	Positional cloning of a global regulator of anteriorâ€“posterior patterning in mice. Nature, 1996, 383, 250-253.	27.8	231
20	Genealogy of the 129 inbred strains: 129/SvJ is a contaminated inbred strain. Mammalian Genome, 1997, 8, 390-393.	2.2	201
21	Activation of the Epidermal Growth Factor Receptor Signal Transduction Pathway Stimulates Tyrosine Phosphorylation of Protein Kinase C Î´. Journal of Biological Chemistry, 1996, 271, 5325-5331.	3.4	180
22	Site-Specific Silencing of Regulatory Elements as a Mechanism of X Inactivation. Cell, 2012, 151, 951-963.	28.9	176
23	Histone H3.3 maintains genome integrity during mammalian development. Genes and Development, 2015, 29, 1377-1392.	5.9	163
24	Genotype-based screen for ENU-induced mutations in mouse embryonic stem cells. Nature Genetics, 2000, 24, 314-317.	21.4	156
25	Murine Polycomb- and trithorax-group genes regulate homeotic pathways and beyond. Trends in Genetics, 1997, 13, 167-170.	6.7	150
26	A Brg1 mutation that uncouples ATPase activity from chromatin remodeling reveals an essential role for SWI/SNF-related complexes in Â-globin expression and erythroid development. Genes and Development, 2005, 19, 2849-2861.	5.9	148
27	Evidence for expression of the paternal genome in the two-cell mouse embryo. Nature, 1981, 294, 450-451.	27.8	144
28	The Polycomb group protein Eed protects the inactive X-chromosome from differentiation-induced reactivation. Nature Cell Biology, 2006, 8, 195-202.	10.3	134
29	Characterization of intercellular junctions in the preimplantation mouse embryo by freeze-fracture and thin-section electron microscopy. Developmental Biology, 1977, 61, 252-261.	2.0	129
30	Interaction of Mouse Polycomb-Group (Pc-G) Proteins Enx1 and Enx2 with Eed: Indication for Separate Pc-G Complexes. Molecular and Cellular Biology, 1998, 18, 3572-3579.	2.3	126
31	Evidence of Xist RNA-independent initiation of mouse imprinted X-chromosome inactivation. Nature, 2009, 460, 647-651.	27.8	126
32	The Role of Brg1, a Catalytic Subunit of Mammalian Chromatin-remodeling Complexes, in T Cell Development. Journal of Experimental Medicine, 2003, 198, 1937-1949.	8.5	125
33	Functional Annotation of Mouse Genome Sequences. Science, 2001, 291, 1251-1255.	12.6	125
34	Aurora-A Kinase Is Essential for Bipolar Spindle Formation and Early Development. Molecular and Cellular Biology, 2009, 29, 1059-1071.	2.3	113
35	The chromatin-remodeling enzyme BRG1 plays an essential role in primitive erythropoiesis and vascular development. Development (Cambridge), 2008, 135, 493-500.	2.5	112
36	Role of Neural Cell Adhesion Molecule and Polysialic Acid in Mouse Circadian Clock Function. Journal of Neuroscience, 1997, 17, 5221-5229.	3.6	108

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37	Dynamic morphogenetic events characterize the mouse visceral endoderm. Developmental Biology, 2003, 261, 470-487.	2.0	108
38	The Polycomb Group Protein EED Is Dispensable for the Initiation of Random X-Chromosome Inactivation. PLoS Genetics, 2006, 2, e66.	3.5	106
39	Genome-Wide Transcriptional Regulation Mediated by Biochemically Distinct SWI/SNF Complexes. PLoS Genetics, 2015, 11, e1005748.	3.5	102
40	KDM6 Demethylase Independent Loss of Histone H3 Lysine 27 Trimethylation during Early Embryonic Development. PLoS Genetics, 2014, 10, e1004507.	3.5	100
41	NCAM-180 knockout mice display increased lateral ventricle size and reduced prepulse inhibition of startle. NeuroReport, 1998, 9, 461-466.	1.2	98
42	The chromatin-remodeling enzyme BRG1 modulates vascular Wnt signaling at two levels. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2282-2287.	7.1	98
43	ARID1a-DNA Interactions Are Required for Promoter Occupancy by SWI/SNF. Molecular and Cellular Biology, 2013, 33, 265-280.	2.3	97
44	Repression of the soma-specific transcriptome by Polycomb-repressive complex 2 promotes male germ cell development. Genes and Development, 2014, 28, 2056-2069.	5.9	94
45	lncRNA-Induced Spread of Polycomb Controlled by Genome Architecture, RNA Abundance, and CpG Island DNA. Molecular Cell, 2019, 75, 523-537.e10.	9.7	92
46	Genetic and Haplotype Diversity Among Wild-Derived Mouse Inbred Strains. Genome Research, 2004, 14, 1880-1887.	5.5	90
47	Large-Scale Gene Expression Differences Across Brain Regions and Inbred Strains Correlate With a Behavioral Phenotype. Genetics, 2006, 174, 1229-1236.	2.9	86
48	GENETIC CONTROL OF VERY EARLY MAMMALIAN DEVELOPMENT. Biological Reviews, 1981, 56, 369-408.	10.4	85
49	The mouse PcG gene eed is required for Hox gene repression and extraembryonic development. Mammalian Genome, 2002, 13, 493-503.	2.2	81
50	Oligosyndactyly: A lethal mutation in the mouse that results in mitotic arrest very early in development. Cell, 1984, 38, 823-833.	28.9	78
51	T Follicular Helper Cell-Dependent Clearance of a Persistent Virus Infection Requires T Cell Expression of the Histone Demethylase UTX. Immunity, 2015, 43, 703-714.	14.3	76
52	A mono-allelic bivalent chromatin domain controls tissue-specific imprinting at Grb10. EMBO Journal, 2008, 27, 2523-2532.	7.8	75
53	Relationship between intercellular permeability and junction organization in the preimplantation mouse embryo. Developmental Biology, 1978, 67, 214-224.	2.0	74
54	Genetic evidence for a mammalian retromer complex containing sorting nexins 1 and 2. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15173-15177.	7.1	71

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55	Pluripotent embryonic stem cell lines can be derived from tw5/tw5 blastocysts. Nature, 1982, 298, 750-753.	27.8	70
56	Nonlinear partial differential equations and applications: An allelic series of mutations in Smad2 and Smad4 identified in a genotype-based screen of N-ethyl-N- nitrosourea-mutagenized mouse embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15542-15547.	7.1	69
57	UTX-guided neural crest function underlies craniofacial features of Kabuki syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9046-E9055.	7.1	67
58	We screen newborns, donâ€™t we?: realizing the promise of public health genomics. Genetics in Medicine, 2013, 15, 332-334.	2.4	64
59	Ablation of MEKK4 Kinase Activity Causes Neurulation and Skeletal Patterning Defects in the Mouse Embryo. Molecular and Cellular Biology, 2005, 25, 8948-8959.	2.3	63
60	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
61	Cell and tissue requirements for the geneeed during mouse gastrulation and organogenesis. Genesis, 2001, 31, 142-146.	1.6	55
62	Nodal Signaling Regulates the Bone Morphogenic Protein Pluripotency Pathway in Mouse Embryonic Stem Cells. Journal of Biological Chemistry, 2010, 285, 19747-19756.	3.4	54
63	An essential role for a mammalian SWI/SNF chromatin-remodeling complex during male meiosis. Development (Cambridge), 2012, 139, 1133-1140.	2.5	52
64	Long Noncoding RNA Moderates MicroRNA Activity to Maintain Self-Renewal in Embryonic Stem Cells. Stem Cell Reports, 2017, 9, 108-121.	4.8	47
65	Mouse albino-deletions: From genetics to genes in development. BioEssays, 1992, 14, 831-839.	2.5	44
66	The MurinePolycomb-Group Geneeedand Its Human Orthologue: Functional Implications of Evolutionary Conservation. Genomics, 1998, 54, 79-88.	2.9	44
67	HNF1A recruits KDM6A to activate differentiated acinar cell programs that suppress pancreatic cancer. EMBO Journal, 2020, 39, e102808.	7.8	44
68	Juxtaposed Polycomb complexes co-regulate vertebral identity. Development (Cambridge), 2006, 133, 4957-4968.	2.5	43
69	The Polycomb-group gene eed regulates thymocyte differentiation and suppresses the development of carcinogen-induced T-cell lymphomas. Oncogene, 2002, 21, 299-306.	5.9	42
70	Genomic Imprinting and Epigenetic Control of Development. Cold Spring Harbor Perspectives in Biology, 2012, 4, a008136-a008136.	5.5	42
71	fourSig: a method for determining chromosomal interactions in 4C-Seq data. Nucleic Acids Research, 2014, 42, e68-e68.	14.5	42
72	Spindle-pole organization during early mouse development. Developmental Biology, 1989, 133, 24-36.	2.0	41

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73	A DNA insulator prevents repression of a targeted X-linked transgene but not its random or imprinted X inactivation. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9958-9963.	7.1	40
74	Molecular and Functional Mapping of EED Motifs Required for PRC2-Dependent Histone Methylation. Journal of Molecular Biology, 2007, 374, 1145-1157.	4.2	40
75	Nucleolar Association and Transcriptional Inhibition through 5S rDNA in Mammals. PLoS Genetics, 2012, 8, e1002468.	3.5	40
76	The SWI/SNF BAF-A complex is essential for neural crest development. Developmental Biology, 2016, 411, 15-24.	2.0	39
77	EZH1 in germ cells safeguards the function of PRC2 during spermatogenesis. Developmental Biology, 2017, 424, 198-207.	2.0	38
78	Spt6 Association with RNA Polymerase II Directs mRNA Turnover During Transcription. Molecular Cell, 2018, 70, 1054-1066.e4.	9.7	38
79	Co-regulation of transcription by BRG1 and BRM, two mutually exclusive SWI/SNF ATPase subunits. Epigenetics and Chromatin, 2017, 10, 62.	3.9	37
80	Characterization of concanavalin A precipitated proteins from early mouse embryos: A 2-dimensional gel electrophoresis study. Developmental Biology, 1981, 81, 193-199.	2.0	36
81	Molecular mapping of albino deletions associated with early embryonic lethality in the mouse. Genomics, 1991, 9, 162-169.	2.9	36
82	Physical mapping of the albino-deletion complex in the mouse to localize alf/hsdr-1, a locus required for neonatal survival. Genomics, 1992, 14, 275-287.	2.9	36
83	The Mouse INO80 Chromatin-Remodeling Complex Is an Essential Meiotic Factor for Spermatogenesis1. Biology of Reproduction, 2016, 94, 8.	2.7	35
84	Pc-G/trx-G and the SWI/SNF connection: Developmental gene regulation through chromatin remodeling. Genesis, 2000, 26, 189-197.	1.6	34
85	Differences between homologous alleles of olfactory receptor genes require the Polycomb Group protein Eed. Journal of Cell Biology, 2007, 179, 269-276.	5.2	33
86	The histone demethylase Kdm6b regulates a mature gene expression program in differentiating cerebellar granule neurons. Molecular and Cellular Neurosciences, 2018, 87, 4-17.	2.2	32
87	Genetic control of gastrulation in the mouse. Current Opinion in Genetics and Development, 1993, 3, 491-498.	3.3	30
88	Detecting broad domains and narrow peaks in ChIP-seq data with hiddenDomains. BMC Bioinformatics, 2016, 17, 144.	2.6	30
89	Mammalian SWI/SNF collaborates with a polycomb-associated protein to regulate male germ line transcription in the mouse. Development (Cambridge), 2019, 146, .	2.5	29
90	Mouse Chromosome 7. Mammalian Genome, 1992, 3, S104-S120.	2.2	28

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91	A Survey of Imprinted Gene Expression in Mouse Trophoblast Stem Cells. G3: Genes, Genomes, Genetics, 2015, 5, 751-759.	1.8	28
92	EZH2 variants differentially regulate polycomb repressive complex 2 in histone methylation and cell differentiation. Epigenetics and Chromatin, 2018, 11, 71.	3.9	28
93	SWI/SNF remains localized to chromatin in the presence of SCHLAP1. Nature Genetics, 2019, 51, 26-29.	21.4	28
94	The KMT2D Kabuki syndrome histone methylase controls neural crest cell differentiation and facial morphology. Development (Cambridge), 2020, 147, .	2.5	28
95	Properties of rat liver plasma membrane adenylate cyclase after chromatography on O-diethylaminoethyl-cellulose and agarose-hexane-GTP. Archives of Biochemistry and Biophysics, 1977, 179, 157-165.	3.0	25
96	A Rapid Procedure to Identify Newborn Transgenic Mice. DNA and Cell Biology, 1989, 8, 297-299.	5.2	25
97	Centralized mouse repositories. Mammalian Genome, 2012, 23, 559-571.	2.2	25
98	Failure of extra-embryonic progenitor maintenance in the absence of dosage compensation. Development (Cambridge), 2012, 139, 2130-2138.	2.5	25
99	Comparative Embryonic Cytotoxicity of Antiretroviral Nucleosides. Journal of Infectious Diseases, 1994, 169, 1100-1102.	4.0	24
100	Differentiation-Driven Nucleolar Association of the Mouse Imprinted Kcnq1 Locus. G3: Genes, Genomes, Genetics, 2012, 2, 1521-1528.	1.8	24
101	Reproducibility: Use mouse biobanks or lose them. Nature, 2015, 522, 151-153.	27.8	24
102	Multimodal Long Noncoding RNA Interaction Networks: Control Panels for Cell Fate Specification. Genetics, 2019, 213, 1093-1110.	2.9	24
103	Expression of rabbit Câ€reactive protein in transgenic mice. Immunology and Cell Biology, 1995, 73, 521-531.	2.3	23
104	Is There aBrachyury the Second?Analysis of a Transgenic Mutation Involved in Notochord Maintenance in Mice. Developmental Biology, 1995, 172, 206-217.	2.0	23
105	Toward the yeastification of mouse genetics: chemical mutagenesis of embryonic stem cells. Mammalian Genome, 2000, 11, 598-602.	2.2	23
106	Evidence for Local Regulatory Control of Escape from Imprinted X Chromosome Inactivation. Genetics, 2014, 197, 715-723.	2.9	21
107	Identification of Two Distinct Classes of the Human INO80 Complex Genome-Wide. G3: Genes, Genomes, Genetics, 2018, 8, 1095-1102.	1.8	21
108	Physical Localization of eed: A Region of Mouse Chromosome 7 Required for Gastrulation. Genomics, 1995, 27, 447-456.	2.9	19

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109	Chromosome jumping from flanking markers defines the minimal region for alf/hsdr-1 within the albino-deletion complex. Genomics, 1992, 14, 288-297.	2.9	18
110	SSLPs to map genetic differences between the 129 inbred strains and closed-colony, random-bred CD-I mice. Mammalian Genome, 1997, 8, 441-442.	2.2	18
111	Targeted Mutagenesis of a Candidate t Complex Responder Gene in Mouse t Haplotypes Does Not Eliminate Transmission Ratio Distortion. Genetics, 1996, 144, 785-792.	2.9	17
112	Key mediators of somatic ATR signaling localize to unpaired chromosomes in spermatocytes. Development (Cambridge), 2015, 142, 2972-80.	2.5	16
113	A Novel Selection Marker for Efficient DNA Cloning and Recombineering in E. coli. PLoS ONE, 2013, 8, e57075.	2.5	16
114	Drosophila CTCF Is Required for Fab-8 Enhancer Blocking Activity in S2 Cells. Journal of Molecular Biology, 2007, 373, 233-239.	4.2	15
115	Interactome determination of a Long Noncoding RNA implicated in Embryonic Stem Cell Self-Renewal. Scientific Reports, 2018, 8, 17568.	3.3	14
116	Epigenetic Regulation by ATP-Dependent Chromatin-Remodeling Enzymes. Current Topics in Developmental Biology, 2016, 117, 1-13.	2.2	13
117	Rad18 confers hematopoietic progenitor cell DNA damage tolerance independently of the Fanconi Anemia pathwayin vivo. Nucleic Acids Research, 2016, 44, 4174-4188.	14.5	13
118	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
119	INO80 requires a polycomb subunit to regulate the establishment of poised chromatin in murine spermatocytes. Development (Cambridge), 2022, 149, .	2.5	11
120	A novel mouse Smad4 mutation reduces protein stability and wild-type protein levels. Mammalian Genome, 2006, 17, 211-219.	2.2	10
121	Small RNA Expression from the Human Macrosatellite DXZ4. G3: Genes, Genomes, Genetics, 2014, 4, 1981-1989.	1.8	9
122	UTX promotes CD8+ TÂcell-mediated antiviral defenses but reduces TÂcell durability. Cell Reports, 2021, 35, 108966.	6.4	9
123	Mammalian SWI/SNF chromatin remodeler is essential for reductional meiosis in males. Nature Communications, 2021, 12, 6581.	12.8	9
124	Gene-Based Chemical Mutagenesis in Mouse Embryonic Stem Cells. Methods in Enzymology, 2003, 365, 406-415.	1.0	8
125	A simple enzymatic method for parietal yolk sac removal in early postimplantation mouse embryos. Developmental Dynamics, 2007, 236, 489-493.	1.8	8
126	Molecular and genetic analysis of the mouse homolog of the Drosophila suppressor of position-effect variegation 3-9 gene. Mammalian Genome, 2000, 11, 251-254.	2.2	7

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127	Short-term rescue by RNA injection of a mitotic arrest mutation that affects the preimplantation mouse embryo. Developmental Biology, 1987, 122, 256-261.	2.0	6
128	Genomic mapping within the albino-deletion complex using individual early postimplantation mouse embryos. Mammalian Genome, 1992, 3, 79-83.	2.2	5
129	A mouse model for human hereditary tyrosinemia I. BioEssays, 1994, 16, 85-87.	2.5	4
130	Mouse homolog of theDrosophila Pc-G geneesc exerts a dominant negative effect inDrosophila. Genesis, 2000, 26, 67-76.	1.6	4
131	Global gene expression profiling of a mouse model of ovarian clear cell carcinoma caused by ARID1A and PIK3CA mutations implicates a role for inflammatory cytokine signaling. Genomics Data, 2015, 5, 329-332.	1.3	4
132	RBBP4 dysfunction reshapes the genomic landscape of H3K27 methylation and acetylation and disrupts gene expression. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	4
133	A Statistical Method for Joint Estimation of Cis-eQTLs and Parent-of-Origin Effects Under Family Trio Design. Biometrics, 2019, 75, 864-874.	1.4	3
134	Characterization of aBrg1Âhypomorphic allele demonstrates that genetic and biochemical activity are tightly correlated. Epigenetics, 2014, 9, 249-256.	2.7	1
135	Vertebrate gastrulation and axial patterning: Editorial overview, Part 1. Genesis, 1995, 17, 1-5.	2.1	0
136	Vertebrate gastrulation and axial patterning: Editorial overview, Part 2. Genesis, 1995, 17, 103-106.	2.1	0
137	Genetic analysis of theexed region in mouse. Genesis, 2000, 27, 174-179.	1.6	0
138	The 2007 Thomas Hunt Morgan Medal. Genetics, 2007, 175, 459-462.	2.9	0
139	A role for BRG1 in vascular development. FASEB Journal, 2007, 21, A15.	0.5	0