Masahito Ikawa

List of Publications by Year
in descending order

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332 papers	25,762 citations	6250 80 h-index	8384 147 g-index
357 all docs	357 docs citations	357 times ranked	31080 citing authors

#	Article	IF	Citations
1	â€˜Green miceâ€™ as a source of ubiquitous green cells. FEBS Letters, 1997, 407, 313-319.	1.3	2,364
2	DNA methylation of retrotransposon genes is regulated by Piwi family members MILI and MIWI2 in murine fetal testes. Genes and Development, 2008, 22, 908-917.	2.7	790
3	Engineered CRISPR-Cas9 nuclease with expanded targeting space. Science, 2018, 361, 1259-1262.	6.0	783
4	The immunoglobulin superfamily protein Izumo is required for sperm to fuse with eggs. Nature, 2005, 434, 234-238.	13.7	701
5	Mili, a mammalian member of piwi family gene, is essential for spermatogenesis. Development (Cambridge), 2004, 131, 839-849.	1.2	666
6	Innate versus learned odour processing in the mouse olfactory bulb. Nature, 2007, 450, 503-508.	13.7	596
7	A general method for gene knockdown in mice by using lentiviral vectors expressing small interfering RNA. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1844-1848.	3.3	546
8	Transgenesis by lentiviral vectors: Lack of gene silencing in mammalian embryonic stem cells and preimplantation embryos. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2140-2145.	3.3	511
9	PGC7/Stella protects against DNA demethylation in early embryogenesis. Nature Cell Biology, 2007, 9, 64-71.	4.6	493
10	Generating green fluorescent mice by germline transmission of green fluorescent ES cells. Mechanisms of Development, 1998, 76, 79-90.	1.7	464
11	Generation of mutant mice by pronuclear injection of circular plasmid expressing Cas9 and single guided RNA. Scientific Reports, 2013, 3, 3355.	1.6	370
12	Pravastatin induces placental growth factor (PGF) and ameliorates preeclampsia in a mouse model. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1451-1455.	3.3	356
13	A histone H3 lysine 36 trimethyltransferase links Nkx2-5 to Wolfâ€“Hirschhorn syndrome. Nature, 2009, 460, 287-291.	13.7	336
14	Defective stratum corneum and early neonatal death in mice lacking the gene for transglutaminase 1 (keratinocyte transglutaminase). Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 1044-1049.	3.3	298
15	Signalling mediated by the endoplasmic reticulum stress transducer OASIS is involved in bone formation. Nature Cell Biology, 2009, 11, 1205-1211.	4.6	278
16	The putative chaperone calmegin is required for sperm fertility. Nature, 1997, 387, 607-611.	13.7	273
17	Fertilization: a spermâ€™s journey to and interaction with the oocyte. Journal of Clinical Investigation, 2010, 120, 984-994.	3.9	254
18	Tissue-specific knockout of the mouse Pig-a gene reveals important roles for GPI-anchored proteins in skin development. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 7400-7405.	3.3	249

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19	The Class IV Semaphorin CD100 Plays Nonredundant Roles in the Immune System. Immunity, 2000, 13, 633-642.	6.6	247
20	Progressive Adipocyte Hypertrophy in Aquaporin-7-deficient Mice. Journal of Biological Chemistry, 2005, 280, 15493-15496.	1.6	230
21	Plexin-A1 and its interaction with DAP12 in immune responses and bone homeostasis. Nature Cell Biology, 2006, 8, 615-622.	4.6	229
22	Glycosylphosphatidylinositol-anchor-deficient mice: implications for clonal dominance of mutant cells in paroxysmal nocturnal hemoglobinuria. Blood, 1996, 87, 3600-3606.	0.6	223
23	Taurine depletion caused by knocking out the taurine transporter gene leads to cardiomyopathy with cardiac atrophy. Journal of Molecular and Cellular Cardiology, 2008, 44, 927-937.	0.9	194
24	Neuromedin U has a novel anorexigenic effect independent of the leptin signaling pathway. Nature Medicine, 2004, 10, 1067-1073.	15.2	191
25	Regulation of endoplasmic reticulum stress response by a BBF2H7-mediated Sec23a pathway is essential for chondrogenesis. Nature Cell Biology, 2009, 11, 1197-1204.	4.6	181
26	Real-time observation of acrosomal dispersal from mouse sperm using GFP as a marker protein. FEBS Letters, 1999, 449, 277-283.	1.3	179
27	Antitumor NK activation induced by the Toll-like receptor 3-TICAM-1 (TRIF) pathway in myeloid dendritic cells. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 252-257.	3.3	177
28	Peroxiredoxin 4knockout results in elevated spermatogenic cell death via oxidative stress. Biochemical Journal, 2009, 419, 149-158.	1.7	175
29	Homeobox Gene Hex Is Essential for Onset of Mouse Embryonic Liver Development and Differentiation of the Monocyte Lineage. Biochemical and Biophysical Research Communications, 2000, 276, 1155-1161.	1.0	174
30	Pluripotency of a Single Spermatogonial Stem Cell in Mice1. Biology of Reproduction, 2008, 78, 681-687.	1.2	170
31	A rapid and non-invasive selection of transgenic embryos before implantation using green fluorescent protein (GFP). FEBS Letters, 1995, 375, 125-128.	1.3	164
32	Efficient chromosomal transposition of a Tc1/mariner- like transposon Sleeping Beauty in mice. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 9191-9196.	3.3	164
33	Dynamic Modification of Sphingomyelin in Lipid Microdomains Controls Development of Obesity, Fatty Liver, and Type 2 Diabetes. Journal of Biological Chemistry, 2011, 286, 28544-28555.	1.6	162
34	Mouse Sperm Lacking Cell Surface Hyaluronidase PH-20 Can Pass through the Layer of Cumulus Cells and Fertilize the Egg. Journal of Biological Chemistry, 2002, 277, 30310-30314.	1.6	160
35	IÎºB Kinase-Independent IÎºBÎ± Degradation Pathway: Functional NF-ÎºB Activity and Implications for Cancer Therapy. Molecular and Cellular Biology, 2003, 23, 8070-8083.	1.1	160
36	MiR-200b and miR-429 Function in Mouse Ovulation and Are Essential for Female Fertility. Science, 2013, 341, 71-73.	6.0	157

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37	Neuroaxonal Dystrophy Caused by Group VIA Phospholipase A₂Deficiency in Mice: A Model of Human Neurodegenerative Disease. Journal of Neuroscience, 2008, 28, 2212-2220.	1.7	154
38	Production of knockout mice by random or targeted mutagenesis in spermatogonial stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8018-8023.	3.3	151
39	Visualization of the moment of mouse spermâ€“egg fusion and dynamic localization of IZUMO1. Journal of Cell Science, 2012, 125, 4985-90.	1.2	148
40	SPACA1-deficient male mice are infertile with abnormally shaped sperm heads reminiscent of globozoospermia. Development (Cambridge), 2012, 139, 3583-3589.	1.2	140
41	Distinct roles of IÎºB proteins in regulating constitutive NF-ÎºB activity. Nature Cell Biology, 2005, 7, 921-923.	4.6	138
42	Comparison of Gene Expression in Male and Female Mouse Blastocysts Revealed Imprinting of the X-Linked Gene, Rhox5/Pem, at Preimplantation Stages. Current Biology, 2006, 16, 166-172.	1.8	137
43	Sperm calcineurin inhibition prevents mouse fertility with implications for male contraceptive. Science, 2015, 350, 442-445.	6.0	137
44	Non-invasive sexing of preimplantation stage mammalian embryos. Nature Genetics, 1998, 19, 220-222.	9.4	135
45	Disruption of ADAM3 Impairs the Migration of Sperm into Oviduct in Mouse1. Biology of Reproduction, 2009, 81, 142-146.	1.2	135
46	Cyclin G1 is involved in G2/M arrest in response to DNA damage and in growth control after damage recovery. Oncogene, 2001, 20, 3290-3300.	2.6	134
47	Genome engineering uncovers 54 evolutionarily conserved and testis-enriched genes that are not required for male fertility in mice. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7704-7710.	3.3	134
48	Expression of TEX101, regulated by ACE, is essential for the production of fertile mouse spermatozoa. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8111-8116.	3.3	133
49	FISH Analysis of 142 EGFP Transgene Integration Sites into the Mouse Genome. Genomics, 2002, 80, 564-574.	1.3	131
50	Protein disulfide isomerase homolog PDILT is required for quality control of sperm membrane protein ADAM3 and male fertility. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3850-3855.	3.3	131
51	Lats2 Is an Essential Mitotic Regulator Required for the Coordination of Cell Division. Journal of Biological Chemistry, 2007, 282, 19259-19271.	1.6	130
52	Mitochondrial Dysfunction and Increased Reactive Oxygen Species Impair Insulin Secretion in Sphingomyelin Synthase 1-null Mice. Journal of Biological Chemistry, 2011, 286, 3992-4002.	1.6	129
53	Disruption of Mouse CD46 Causes an Accelerated Spontaneous Acrosome Reaction in Sperm. Molecular and Cellular Biology, 2003, 23, 2614-2622.	1.1	128
54	Calsperin Is a Testis-specific Chaperone Required for Sperm Fertility. Journal of Biological Chemistry, 2011, 286, 5639-5646.	1.6	128

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55	Expression of the endoplasmic reticulum molecular chaperone (ORP150) rescues hippocampal neurons from glutamate toxicity. Journal of Clinical Investigation, 2001, 108, 1439-1450.	3.9	125
56	Calmegin Is Required for Fertilin Î±/Î² Heterodimerization and Sperm Fertility. Developmental Biology, 2001, 240, 254-261.	0.9	124
57	Proton Pump Inhibitors Decrease Soluble fms-Like Tyrosine Kinase-1 and Soluble Endoglin Secretion, Decrease Hypertension, and Rescue Endothelial Dysfunction. Hypertension, 2017, 69, 457-468.	1.3	118
58	Hypertension and dysregulated proinflammatory cytokine production in receptor activity-modifying protein 1-deficient mice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16702-16707.	3.3	117
59	Acrosome-reacted mouse spermatozoa recovered from the perivitelline space can fertilize other eggs. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20008-20011.	3.3	117
60	Transgenic Mouse Sperm that Have Green Acrosome and Red Mitochondria Allow Visualization of Sperm and Their Acrosome Reaction in Vivo. Experimental Animals, 2010, 59, 105-107.	0.7	116
61	Postnatal Growth Failure, Short Life Span, and Early Onset of Cellular Senescence and Subsequent Immortalization in Mice Lacking the Xeroderma Pigmentosum Group G Gene. Molecular and Cellular Biology, 1999, 19, 2366-2372.	1.1	115
62	Complementation of placental defects and embryonic lethality by trophoblast-specific lentiviral gene transfer. Nature Biotechnology, 2007, 25, 233-237.	9.4	115
63	Structural insights into tetraspanin CD9 function. Nature Communications, 2020, 11, 1606.	5.8	114
64	Sperm proteins SOF1, TMEM95, and SPACA6 are required for spermâ^'oocyte fusion in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11493-11502.	3.3	111
65	Bi-allelic DNAH8 Variants Lead to Multiple Morphological Abnormalities of the Sperm Flagella and Primary Male Infertility. American Journal of Human Genetics, 2020, 107, 330-341.	2.6	111
66	Restoration of spermatogenesis by lentiviral gene transfer: Offspring from infertile mice. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7524-7529.	3.3	109
67	Behavior of Mouse Spermatozoa in the Female Reproductive Tract from Soon after Mating to the Beginning of Fertilization1. Biology of Reproduction, 2016, 94, 80.	1.2	108
68	Green fluorescent protein as a marker in transgenic mice. Development Growth and Differentiation, 1995, 37, 455-459.	0.6	105
69	Aberrant Distribution of ADAM3 in Sperm from Both Angiotensin-Converting Enzyme (Ace)- and Calmegin (Clgn)-Deficient Mice1. Biology of Reproduction, 2006, 75, 760-766.	1.2	104
70	Simple generation of albino C57BL/6J mice with G291T mutation in the tyrosinase gene by the CRISPR/Cas9 system. Mammalian Genome, 2014, 25, 327-334.	1.0	103
71	Molecular dissection of IZUMO1, a sperm protein essential for sperm-egg fusion. Development (Cambridge), 2013, 140, 3221-3229.	1.2	102
72	Impaired Urea Accumulation in the Inner Medulla of Mice Lacking the Urea Transporter UT-A2. Molecular and Cellular Biology, 2005, 25, 7357-7363.	1.1	95

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73	Formation of a thymus from rat ES cells in xenogeneic nude mouseâ†”rat ES chimeras. Genes To Cells, 2011, 16, 397-405.	0.5	93
74	Elf5-centered transcription factor hub controls trophoblast stem cell self-renewal and differentiation through stoichiometry-sensitive shifts in target gene networks. Genes and Development, 2015, 29, 2435-2448.	2.7	93
75	Sperm-borne phospholipase C zeta-1 ensures monospermic fertilization in mice. Scientific Reports, 2018, 8, 1315.	1.6	92
76	`Green mice' and their potential usage in biological research. FEBS Letters, 1998, 430, 83-87.	1.3	91
77	CKAP4, a DKK1 Receptor, Is a Biomarker in Exosomes Derived from Pancreatic Cancer and a Molecular Target for Therapy. Clinical Cancer Research, 2019, 25, 1936-1947.	3.2	91
78	Sperm equatorial segment protein 1, SPESP1, is required for fully fertile sperm in mouse. Journal of Cell Science, 2010, 123, 1531-1536.	1.2	89
79	Generation of transgenic mice using lentiviral vectors: a novel preclinical assessment of lentiviral vectors for gene therapy. Molecular Therapy, 2003, 8, 666-673.	3.7	88
80	Calcitonin Receptor Signaling Inhibits Muscle Stem Cells from Escaping the Quiescent State and the Niche. Cell Reports, 2015, 13, 302-314.	2.9	88
81	Lineage-specific cell disruption in living mice by Cre-mediated expression of diphtheria toxin A chain. Biochemical and Biophysical Research Communications, 2004, 321, 275-279.	1.0	86
82	The LIM homeobox gene, L3/Lhx8, is necessary for proper development of basal forebrain cholinergic neurons. European Journal of Neuroscience, 2004, 19, 3129-3141.	1.2	85
83	CRISPR/Cas9 mediated genome editing in ES cells and its application for chimeric analysis in mice. Scientific Reports, 2016, 6, 31666.	1.6	85
84	PGAP1 Knock-out Mice Show Otocephaly and Male Infertility. Journal of Biological Chemistry, 2007, 282, 30373-30380.	1.6	84
85	Testis-Specific Histone Variant H3t Gene Is Essential for Entry into Spermatogenesis. Cell Reports, 2017, 18, 593-600.	2.9	82
86	CRISPR/Cas9-mediated genome editing reveals 30 testis-enriched genes dispensable for male fertility in miceâ€. Biology of Reproduction, 2019, 101, 501-511.	1.2	81
87	Two Ck1Î´ transcripts regulated by m6A methylation code for two antagonistic kinases in the control of the circadian clock. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5980-5985.	3.3	79
88	Feasibility for a large scale mouse mutagenesis by injecting CRISPR/Cas plasmid into zygotes. Development Growth and Differentiation, 2014, 56, 122-129.	0.6	75
89	Radial spoke head 6 homolog a is required for sperm flagellum formation and male fertility in mice. Journal of Cell Science, 2018, 131, .	1.2	75
90	Glycosylphosphatidylinositol-anchor-deficient mice: implications for clonal dominance of mutant cells in paroxysmal nocturnal hemoglobinuria. Blood, 1996, 87, 3600-6.	0.6	75

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91	TCTE1 is a conserved component of the dynein regulatory complex and is required for motility and metabolism in mouse spermatozoa. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5370-E5378.	3.3	74
92	Spermatozoa lacking Fertilization Influencing Membrane Protein (FIMP) fail to fuse with oocytes in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9393-9400.	3.3	74
93	Alkalinization of Acrosome Measured by GFP as a pH Indicator and Its Relation to Sperm Capacitation. Developmental Biology, 2001, 237, 222-231.	0.9	73
94	GPI-Anchored Protein Complex, LY6K/TEX101, Is Required for Sperm Migration into the Oviduct and Male Fertility in Mice1. Biology of Reproduction, 2014, 90, 60.	1.2	73
95	Cold-inducible RNA-binding protein (Cirp) interacts with Dyrk1b/Mirk and promotes proliferation of immature male germ cells in mice. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10885-10890.	3.3	72
96	Male Infertility and the Genetics of Spermatogenesis. American Journal of Human Genetics, 1998, 62, 1274-1281.	2.6	70
97	Mouse Germ Cell-Less as an Essential Component for Nuclear Integrity. Molecular and Cellular Biology, 2003, 23, 1304-1315.	1.1	70
98	Calponin 3 Regulates Actin Cytoskeleton Rearrangement in Trophoblastic Cell Fusion. Molecular Biology of the Cell, 2010, 21, 3973-3984.	0.9	70
99	Production of mouse pups from germline transmission-failed knockout chimeras. Transgenic Research, 2013, 22, 195-200.	1.3	70
100	Migration of Exogenous Immature Hematopoietic Cells into Adult Mouse Brain Parenchyma under GFP-Expressing Bone Marrow Chimera. Biochemical and Biophysical Research Communications, 1999, 262, 610-614.	1.0	69
101	Sperm from the Calmegin-Deficient Mouse Have Normal Abilities for Binding and Fusion to the Egg Plasma Membrane. Developmental Biology, 2002, 250, 348-357.	0.9	69
102	Quantitative assessment of telomerase components in cancer cell lines. FEBS Letters, 2015, 589, 974-984.	1.3	68
103	Single-step generation of rabbits carrying a targeted allele of the tyrosinase gene using CRISPR/Cas9. Experimental Animals, 2015, 64, 31-37.	0.7	66
104	STING in tumor and host cells cooperatively work for NK cell-mediated tumor growth retardation. Biochemical and Biophysical Research Communications, 2016, 478, 1764-1771.	1.0	66
105	Efficient selection of transgenic mouse embryos using EGFP as a marker gene. Molecular Reproduction and Development, 1999, 54, 43-48.	1.0	65
106	Neutrophil infiltration during inflammation is regulated by PILRÎ± via modulation of integrin activation. Nature Immunology, 2013, 14, 34-40.	7.0	65
107	APJ Regulates Parallel Alignment of Arteries and Veins in the Skin. Developmental Cell, 2015, 33, 247-259.	3.1	65
108	A Role of TMEM16E Carrying a Scrambling Domain in Sperm Motility. Molecular and Cellular Biology, 2016, 36, 645-659.	1.1	64

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109	NELL2-mediated lumicrine signaling through OVCH2 is required for male fertility. Science, 2020, 368, 1132-1135.	6.0	63
110	1 Green Fluorescent Protein (GFP) as a Vital Marker in Mammals. Current Topics in Developmental Biology, 1998, 44, 1-20.	1.0	62
111	Efficient Derivation of Embryonic Stem Cells by Inhibition of Glycogen Synthase Kinase-3. Stem Cells, 2007, 25, 2705-2711.	1.4	62
112	Putative sperm fusion protein IZUMO and the role of N-glycosylation. Biochemical and Biophysical Research Communications, 2008, 377, 910-914.	1.0	62
113	Evidence for lysosomal biogenesis proteome defect and impaired autophagy in preeclampsia. Autophagy, 2020, 16, 1771-1785.	4.3	62
114	The mechanism of spermâ€“egg interaction and the involvement of IZUMO1 in fusion. Asian Journal of Andrology, 2011, 13, 81-87.	0.8	60
115	Selective Passage Through the Uterotubal Junction of Sperm from a Mixed Population Produced by Chimeras of Calmegin-Knockout and Wild-Type Male Mice1. Biology of Reproduction, 2004, 71, 959-965.	1.2	59
116	Mice Deficient in Ficolin, a Lectin Complement Pathway Recognition Molecule, Are Susceptible to Streptococcus pneumoniae Infection. Journal of Immunology, 2012, 189, 5860-5866.	0.4	59
117	Structural and functional insights into IZUMO1 recognition by JUNO in mammalian fertilization. Nature Communications, 2016, 7, 12198.	5.8	58
118	Regulation of intestinal homeostasis by the ulcerative colitis-associated gene RNF186. Mucosal Immunology, 2017, 10, 446-459.	2.7	55
119	CRISPR/Cas9-Based Genome Editing in Mice by Single Plasmid Injection. Methods in Enzymology, 2014, 546, 319-336.	0.4	54
120	GPI-AP release in cellular, developmental, and reproductive biology. Journal of Lipid Research, 2016, 57, 538-545.	2.0	54
121	Identification of the XPG Region That Causes the Onset of Cockayne Syndrome by Using Xpg Mutant Mice Generated by the cDNA-Mediated Knock-In Method. Molecular and Cellular Biology, 2004, 24, 3712-3719.	1.1	52
122	Deletion of SERP1/RAMP4, a Component of the Endoplasmic Reticulum (ER) Translocation Sites, Leads to ER Stress. Molecular and Cellular Biology, 2006, 26, 4257-4267.	1.1	52
123	BATF2 inhibits immunopathological Th17 responses by suppressing Il23a expression during Trypanosoma cruzi infection. Journal of Experimental Medicine, 2017, 214, 1313-1331.	4.2	52
124	Trophoblast-Specific Conditional Atg7 Knockout Mice Develop Gestational Hypertension. American Journal of Pathology, 2018, 188, 2474-2486.	1.9	52
125	CRISPR/Cas9-Mediated Rapid Generation of Multiple Mouse Lines Identified Ccdc63 as Essential for Spermiogenesis. International Journal of Molecular Sciences, 2015, 16, 24732-24750.	1.8	51
126	Sperm Postacrosomal WW Domain-Binding Protein Is Not Required for Mouse Egg Activation1. Biology of Reproduction, 2015, 93, 94.	1.2	51

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127	Human Globozoospermia-Related Gene Spata16 Is Required for Sperm Formation Revealed by CRISPR/Cas9-Mediated Mouse Models. International Journal of Molecular Sciences, 2017, 18, 2208.	1.8	48
128	Identification of multiple male reproductive tract-specific proteins that regulate sperm migration through the oviduct in mice. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18498-18506.	3.3	48
129	Identification and Disruption of Sperm-Specific Angiotensin Converting Enzyme-3 (ACE3) in Mouse. PLoS ONE, 2010, 5, e10301.	1.1	46
130	Green fluorescent protein-transgenic mice: immune functions and their application to studies of lymphocyte development. Immunology Letters, 2000, 70, 165-171.	1.1	45
131	Double strand break repair by capture of retrotransposon sequences and reverse-transcribed spliced mRNA sequences in mouse zygotes. Scientific Reports, 2015, 5, 12281.	1.6	45
132	Biogenesis of sperm acrosome is regulated by pre-mRNA alternative splicing of Acrbp in the mouse. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3696-E3705.	3.3	44
133	Factors controlling sperm migration through the oviduct revealed by gene-modified mouse models. Experimental Animals, 2018, 67, 91-104.	0.7	43
134	Identification of Semaphorin 4B as a Negative Regulator of Basophil-Mediated Immune Responses. Journal of Immunology, 2011, 186, 2881-2888.	0.4	42
135	Mice expressing aberrant sperm-specific protein PMIS2 produce normal-looking but fertilization-incompetent spermatozoa. Molecular Biology of the Cell, 2012, 23, 2671-2679.	0.9	42
136	Fertilization defects in sperm fromCysteine-rich secretory protein 2(Crisp2) knockout mice: implications for fertility disorders. Molecular Human Reproduction, 2016, 22, 240-251.	1.3	42
137	Vestigial-like 2 contributes to normal muscle fiber type distribution in mice. Scientific Reports, 2017, 7, 7168.	1.6	42
138	Transcriptional activation of a hybrid promoter composed of cytomegalovirus enhancer and Î²-actin/Î²-globin gene in glomerular epithelial cells in vivo. Kidney International, 1997, 51, 1265-1269.	2.6	41
139	Deletion of Nâ€myc downstreamâ€regulated gene 2 attenuates reactive astrogliosis and inflammatory response in a mouse model of cortical stab injury. Journal of Neurochemistry, 2014, 130, 374-387.	2.1	41
140	Calreticulin is required for development of the cumulus oocyte complex and female fertility. Scientific Reports, 2015, 5, 14254.	1.6	41
141	NAIL: an evolutionarily conserved lncRNA essential for licensing coordinated activation of p38 and NFÎºB in colitis. Gut, 2021, 70, 1857-1871.	6.1	41
142	Ghrelin deficiency does not influence feeding performance. Regulatory Peptides, 2008, 145, 7-11.	1.9	40
143	Essential role of autoactivation circuitry on Aurora B-mediated H2AX-pS121 in mitosis. Nature Communications, 2016, 7, 12059.	5.8	40
144	The testes-specific bZip type transcription factorTisp40plays a role in ER stress responses and chromatin packaging during spermiogenesis. Genes To Cells, 2006, 11, 1161-1171.	0.5	39

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145	Large-scale discovery of male reproductive tract-specific genes through analysis of RNA-seq datasets. BMC Biology, 2020, 18, 103.	1.7	39
146	Astrocytic cAMP modulates memory via synaptic plasticity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	39
147	ARMC12 regulates spatiotemporal mitochondrial dynamics during spermiogenesis and is required for male fertility. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	39
148	N-terminal truncation of Lats1 causes abnormal cell growth control and chromosomal instability. Journal of Cell Science, 2013, 126, 508-520.	1.2	38
149	NUCKS Is a Positive Transcriptional Regulator of Insulin Signaling. Cell Reports, 2014, 7, 1876-1886.	2.9	38
150	Endometrial receptivity and implantation require uterine BMP signaling through an ACVR2A-SMAD1/SMAD5 axis. Nature Communications, 2021, 12, 3386.	5.8	38
151	Synthesis of a New Cre Recombinase Gene Based on Optimal Codon Usage for Mammalian Systems. Journal of Biochemistry, 2000, 127, 367-372.	0.9	37
152	Lâ€Amino acid oxidase plays a crucial role in host defense in the mammary glands. FASEB Journal, 2009, 23, 2514-2520.	0.2	37
153	Rap1 regulates hematopoietic stem cell survival and affects oncogenesis and response to chemotherapy. Nature Communications, 2019, 10, 5349.	5.8	37
154	A GPI processing phospholipase A2, PGAP6, modulates Nodal signaling in embryos by shedding CRIPTO. Journal of Cell Biology, 2016, 215, 705-718.	2.3	36
155	CABYR is essential for fibrous sheath integrity and progressive motility in mouse spermatozoa. Journal of Cell Science, 2016, 129, 4379-4387.	1.2	36
156	The Mg2+ transporter CNNM4 regulates sperm Ca2+ homeostasis and it is essential for reproduction. Journal of Cell Science, 2016, 129, 1940-9.	1.2	36
157	An azoospermic factor gene, Ddx3y and its paralog, Ddx3x are dispensable in germ cells for male fertility. Journal of Reproduction and Development, 2019, 65, 121-128.	0.5	36
158	Mice with Markedly Reduced PACAP (PAC1) Receptor Expression by Targeted Deletion of the Signal Peptide. Journal of Neurochemistry, 2002, 75, 1810-1817.	2.1	35
159	Bis deficiency results in early lethality with metabolic deterioration and involution of spleen and thymus. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E1349-E1357.	1.8	35
160	Nine genes abundantly expressed in the epididymis are not essential for male fecundity in mice. Andrology, 2019, 7, 644-653.	1.9	35
161	Cutting Edge: Role of MASP-3 in the Physiological Activation of Factor D of the Alternative Complement Pathway. Journal of Immunology, 2019, 203, 1411-1416.	0.4	35
162	Glycerol kinase 2 is essential for proper arrangement of crescent-like mitochondria to form the mitochondrial sheath during mouse spermatogenesis. Journal of Reproduction and Development, 2019, 65, 155-162.	0.5	33

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163	Disruption of the novel gene fad104 causes rapid postnatal death and attenuation of cell proliferation, adhesion, spreading and migration. Experimental Cell Research, 2009, 315, 809-819.	1.2	32
164	RECS1 deficiency in mice induces susceptibility to cystic medial degeneration. Genes and Genetic Systems, 2006, 81, 41-50.	0.2	29
165	Rapid generation of knockdown transgenic mice by silencing lentiviral vectors. Nature Protocols, 2006, 1, 286-292.	5.5	28
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