

Masahito Ikawa

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326
papers

20,644
citations

73
h-index

136
g-index

356
ext. papers

23,488
ext. citations

7.2
avg, IF

6.48
L-index

#	Paper	IF	Citations
326	Green mice as a source of ubiquitous green cells. <i>FEBS Letters</i> , 1997 , 407, 313-9	3.8	2152
325	DNA methylation of retrotransposon genes is regulated by Piwi family members MILI and MIWI2 in murine fetal testes. <i>Genes and Development</i> , 2008 , 22, 908-17	12.6	670
324	Mili, a mammalian member of piwi family gene, is essential for spermatogenesis. <i>Development (Cambridge)</i> , 2004 , 131, 839-49	6.6	574
323	The immunoglobulin superfamily protein Izumo is required for sperm to fuse with eggs. <i>Nature</i> , 2005 , 434, 234-8	50.4	570
322	Innate versus learned odour processing in the mouse olfactory bulb. <i>Nature</i> , 2007 , 450, 503-8	50.4	516
321	A general method for gene knockdown in mice by using lentiviral vectors expressing small interfering RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 1844-8	11.5	506
320	Engineered CRISPR-Cas9 nuclease with expanded targeting space. <i>Science</i> , 2018 , 361, 1259-1262	33.3	486
319	Transgenesis by lentiviral vectors: lack of gene silencing in mammalian embryonic stem cells and preimplantation embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 2140-5	11.5	457
318	PGC7/Stella protects against DNA demethylation in early embryogenesis. <i>Nature Cell Biology</i> , 2007 , 9, 64-71	23.4	446
317	Generating green fluorescent mice by germline transmission of green fluorescent ES cells. <i>Mechanisms of Development</i> , 1998 , 76, 79-90	1.7	445
316	Generation of mutant mice by pronuclear injection of circular plasmid expressing Cas9 and single guided RNA. <i>Scientific Reports</i> , 2013 , 3, 3355	4.9	298
315	Pravastatin induces placental growth factor (PGF) and ameliorates preeclampsia in a mouse model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1451-5	11.5	283
314	A histone H3 lysine 36 trimethyltransferase links Nkx2-5 to Wolf-Hirschhorn syndrome. <i>Nature</i> , 2009 , 460, 287-91	50.4	279
313	Defective stratum corneum and early neonatal death in mice lacking the gene for transglutaminase 1 (keratinocyte transglutaminase). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 1044-9	11.5	273
312	Signalling mediated by the endoplasmic reticulum stress transducer OASIS is involved in bone formation. <i>Nature Cell Biology</i> , 2009 , 11, 1205-11	23.4	240
311	The putative chaperone calmeglin is required for sperm fertility. <i>Nature</i> , 1997 , 387, 607-11	50.4	239
310	Tissue-specific knockout of the mouse Pig-a gene reveals important roles for GPI-anchored proteins in skin development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 7400-5	11.5	221

309	The class IV semaphorin CD100 plays nonredundant roles in the immune system: defective B and T cell activation in CD100-deficient mice. <i>Immunity</i> , 2000 , 13, 633-42	32.3	220
308	Fertilization: a sperm's journey to and interaction with the oocyte. <i>Journal of Clinical Investigation</i> , 2010 , 120, 984-94	15.9	206
307	Plexin-A1 and its interaction with DAP12 in immune responses and bone homeostasis. <i>Nature Cell Biology</i> , 2006 , 8, 615-22	23.4	205
306	Progressive adipocyte hypertrophy in aquaporin-7-deficient mice: adipocyte glycerol permeability as a novel regulator of fat accumulation. <i>Journal of Biological Chemistry</i> , 2005 , 280, 15493-6	5.4	202
305	Glycosylphosphatidylinositol-anchor-deficient mice: implications for clonal dominance of mutant cells in paroxysmal nocturnal hemoglobinuria. <i>Blood</i> , 1996 , 87, 3600-3606	2.2	202
304	Neuromedin U has a novel anorexigenic effect independent of the leptin signaling pathway. <i>Nature Medicine</i> , 2004 , 10, 1067-73	50.5	168
303	Antitumor NK activation induced by the Toll-like receptor 3-TICAM-1 (TRIF) pathway in myeloid dendritic cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 252-7	11.5	163
302	Real-time observation of acrosomal dispersal from mouse sperm using GFP as a marker protein. <i>FEBS Letters</i> , 1999 , 449, 277-83	3.8	160
301	Regulation of endoplasmic reticulum stress response by a BBF2H7-mediated Sec23a pathway is essential for chondrogenesis. <i>Nature Cell Biology</i> , 2009 , 11, 1197-204	23.4	158
300	Peroxiredoxin 4 knockout results in elevated spermatogenic cell death via oxidative stress. <i>Biochemical Journal</i> , 2009 , 419, 149-58	3.8	157
299	Homeobox gene Hex is essential for onset of mouse embryonic liver development and differentiation of the monocyte lineage. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 276, 1155-61	3.4	153
298	Taurine depletion caused by knocking out the taurine transporter gene leads to cardiomyopathy with cardiac atrophy. <i>Journal of Molecular and Cellular Cardiology</i> , 2008 , 44, 927-37	5.8	152
297	Efficient chromosomal transposition of a Tc1/mariner-like transposon Sleeping Beauty in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 9191-6	11.5	151
296	Pluripotency of a single spermatogonial stem cell in mice. <i>Biology of Reproduction</i> , 2008 , 78, 681-7	3.9	150
295	IkappaB kinase-independent IkappaBalpha degradation pathway: functional NF-kappaB activity and implications for cancer therapy. <i>Molecular and Cellular Biology</i> , 2003 , 23, 8070-83	4.8	147
294	Production of knockout mice by random or targeted mutagenesis in spermatogonial stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 8018-23	11.5	142
293	Dynamic modification of sphingomyelin in lipid microdomains controls development of obesity, fatty liver, and type 2 diabetes. <i>Journal of Biological Chemistry</i> , 2011 , 286, 28544-55	5.4	135
292	A rapid and non-invasive selection of transgenic embryos before implantation using green fluorescent protein (GFP). <i>FEBS Letters</i> , 1995 , 375, 125-8	3.8	135

291	Mouse sperm lacking cell surface hyaluronidase PH-20 can pass through the layer of cumulus cells and fertilize the egg. <i>Journal of Biological Chemistry</i> , 2002 , 277, 30310-4	5.4	133
290	miR-200b and miR-429 function in mouse ovulation and are essential for female fertility. <i>Science</i> , 2013 , 341, 71-3	33.3	125
289	Non-invasive sexing of preimplantation stage mammalian embryos. <i>Nature Genetics</i> , 1998 , 19, 220-2	36.3	123
288	Distinct roles of IkappaB proteins in regulating constitutive NF-kappaB activity. <i>Nature Cell Biology</i> , 2005 , 7, 921-3	23.4	122
287	Comparison of gene expression in male and female mouse blastocysts revealed imprinting of the X-linked gene, RhoX5/Pem, at preimplantation stages. <i>Current Biology</i> , 2006 , 16, 166-72	6.3	121
286	Lats2 is an essential mitotic regulator required for the coordination of cell division. <i>Journal of Biological Chemistry</i> , 2007 , 282, 19259-71	5.4	121
285	Neuroaxonal dystrophy caused by group VIA phospholipase A2 deficiency in mice: a model of human neurodegenerative disease. <i>Journal of Neuroscience</i> , 2008 , 28, 2212-20	6.6	120
284	FISH analysis of 142 EGFP transgene integration sites into the mouse genome. <i>Genomics</i> , 2002 , 80, 564-74	4.3	120
283	Visualization of the moment of mouse sperm-egg fusion and dynamic localization of IZUMO1. <i>Journal of Cell Science</i> , 2012 , 125, 4985-90	5.3	118
282	Cyclin G1 is involved in G2/M arrest in response to DNA damage and in growth control after damage recovery. <i>Oncogene</i> , 2001 , 20, 3290-300	9.2	118
281	Disruption of mouse CD46 causes an accelerated spontaneous acrosome reaction in sperm. <i>Molecular and Cellular Biology</i> , 2003 , 23, 2614-22	4.8	113
280	Protein disulfide isomerase homolog PDILT is required for quality control of sperm membrane protein ADAM3 and male fertility [corrected]. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 3850-5	11.5	111
279	Calmegin is required for fertilin alpha/beta heterodimerization and sperm fertility. <i>Developmental Biology</i> , 2001 , 240, 254-61	3.1	110
278	Acrosome-reacted mouse spermatozoa recovered from the perivitelline space can fertilize other eggs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20008-11	11.5	109
277	Expression of TEX101, regulated by ACE, is essential for the production of fertile mouse spermatozoa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 8111-6	11.5	108
276	SPACA1-deficient male mice are infertile with abnormally shaped sperm heads reminiscent of globozoospermia. <i>Development (Cambridge)</i> , 2012 , 139, 3583-9	6.6	107
275	Disruption of ADAM3 impairs the migration of sperm into oviduct in mouse. <i>Biology of Reproduction</i> , 2009 , 81, 142-6	3.9	106
274	Mitochondrial dysfunction and increased reactive oxygen species impair insulin secretion in sphingomyelin synthase 1-null mice. <i>Journal of Biological Chemistry</i> , 2011 , 286, 3992-4002	5.4	106

273	Expression of the endoplasmic reticulum molecular chaperone (ORP150) rescues hippocampal neurons from glutamate toxicity. <i>Journal of Clinical Investigation</i> , 2001 , 108, 1439-50	15.9	104
272	Calsperin is a testis-specific chaperone required for sperm fertility. <i>Journal of Biological Chemistry</i> , 2011 , 286, 5639-46	5.4	103
271	Postnatal growth failure, short life span, and early onset of cellular senescence and subsequent immortalization in mice lacking the xeroderma pigmentosum group G gene. <i>Molecular and Cellular Biology</i> , 1999 , 19, 2366-72	4.8	101
270	Sperm calcineurin inhibition prevents mouse fertility with implications for male contraceptive. <i>Science</i> , 2015 , 350, 442-5	33.3	100
269	Hypertension and dysregulated proinflammatory cytokine production in receptor activity-modifying protein 1-deficient mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 16702-7	11.5	98
268	Restoration of spermatogenesis by lentiviral gene transfer: offspring from infertile mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 7524-9	11.5	98
267	Genome engineering uncovers 54 evolutionarily conserved and testis-enriched genes that are not required for male fertility in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7704-10	11.5	98
266	Aberrant distribution of ADAM3 in sperm from both angiotensin-converting enzyme (Ace)- and calmegin (Clgn)-deficient mice. <i>Biology of Reproduction</i> , 2006 , 75, 760-6	3.9	94
265	Complementation of placental defects and embryonic lethality by trophoblast-specific lentiviral gene transfer. <i>Nature Biotechnology</i> , 2007 , 25, 233-7	44.5	92
264	Impaired urea accumulation in the inner medulla of mice lacking the urea transporter UT-A2. <i>Molecular and Cellular Biology</i> , 2005 , 25, 7357-63	4.8	90
263	Transgenic mouse sperm that have green acrosome and red mitochondria allow visualization of sperm and their acrosome reaction in vivo. <i>Experimental Animals</i> , 2010 , 59, 105-7	1.8	88
262	Green mice and their potential usage in biological research. <i>FEBS Letters</i> , 1998 , 430, 83-7	3.8	87
261	Green fluorescent protein as a marker in transgenic mice. <i>Development Growth and Differentiation</i> , 1995 , 37, 455-459	3	87
260	Proton Pump Inhibitors Decrease Soluble fms-Like Tyrosine Kinase-1 and Soluble Endoglin Secretion, Decrease Hypertension, and Rescue Endothelial Dysfunction. <i>Hypertension</i> , 2017 , 69, 457-468	8.5	84
259	Molecular dissection of IZUMO1, a sperm protein essential for sperm-egg fusion. <i>Development (Cambridge)</i> , 2013 , 140, 3221-9	6.6	80
258	The LIM homeobox gene, L3/Lhx8, is necessary for proper development of basal forebrain cholinergic neurons. <i>European Journal of Neuroscience</i> , 2004 , 19, 3129-41	3.5	79
257	Simple generation of albino C57BL/6J mice with G291T mutation in the tyrosinase gene by the CRISPR/Cas9 system. <i>Mammalian Genome</i> , 2014 , 25, 327-34	3.2	78
256	Correction for Tokuhiro et al., Protein disulfide isomerase homolog PDILT is required for quality control of sperm membrane protein ADAM3 and male infertility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 5905-5905	11.5	78

255	Generation of transgenic mice using lentiviral vectors: a novel preclinical assessment of lentiviral vectors for gene therapy. <i>Molecular Therapy</i> , 2003 , 8, 666-73	11.7	78
254	Sperm equatorial segment protein 1, SPESP1, is required for fully fertile sperm in mouse. <i>Journal of Cell Science</i> , 2010 , 123, 1531-6	5.3	73
253	Formation of a thymus from rat ES cells in xenogeneic nude mouse<-tat ES chimeras. <i>Genes To Cells</i> , 2011 , 16, 397-405	2.3	71
252	Behavior of Mouse Spermatozoa in the Female Reproductive Tract from Soon after Mating to the Beginning of Fertilization. <i>Biology of Reproduction</i> , 2016 , 94, 80	3.9	69
251	Male infertility and the genetics of spermatogenesis. <i>American Journal of Human Genetics</i> , 1998 , 62, 1274-81	4.81	68
250	PGAP1 knock-out mice show otocephaly and male infertility. <i>Journal of Biological Chemistry</i> , 2007 , 282, 30373-80	5.4	68
249	Feasibility for a large scale mouse mutagenesis by injecting CRISPR/Cas plasmid into zygotes. <i>Development Growth and Differentiation</i> , 2014 , 56, 122-9	3	67
248	Mouse germ cell-less as an essential component for nuclear integrity. <i>Molecular and Cellular Biology</i> , 2003 , 23, 1304-15	4.8	67
247	Lineage-specific cell disruption in living mice by Cre-mediated expression of diphtheria toxin A chain. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 321, 275-9	3.4	66
246	Production of mouse pups from germline transmission-failed knockout chimeras. <i>Transgenic Research</i> , 2013 , 22, 195-200	3.3	64
245	Migration of exogenous immature hematopoietic cells into adult mouse brain parenchyma under GFP-expressing bone marrow chimera. <i>Biochemical and Biophysical Research Communications</i> , 1999 , 262, 610-4	3.4	64
244	GPI-anchored protein complex, LY6K/TEX101, is required for sperm migration into the oviduct and male fertility in mice. <i>Biology of Reproduction</i> , 2014 , 90, 60	3.9	63
243	Sperm from the Calmegin-Deficient Mouse Have Normal Abilities for Binding and Fusion to the Egg Plasma Membrane. <i>Developmental Biology</i> , 2002 , 250, 348-357	3.1	63
242	Calcitonin Receptor Signaling Inhibits Muscle Stem Cells from Escaping the Quiescent State and the Niche. <i>Cell Reports</i> , 2015 , 13, 302-14	10.6	62
241	CRISPR/Cas9 mediated genome editing in ES cells and its application for chimeric analysis in mice. <i>Scientific Reports</i> , 2016 , 6, 31666	4.9	61
240	Alkalinization of acrosome measured by GFP as a pH indicator and its relation to sperm capacitation. <i>Developmental Biology</i> , 2001 , 237, 222-31	3.1	61
239	Glycosylphosphatidylinositol-anchor-deficient mice: implications for clonal dominance of mutant cells in paroxysmal nocturnal hemoglobinuria. <i>Blood</i> , 1996 , 87, 3600-6	2.2	60
238	Calponin 3 regulates actin cytoskeleton rearrangement in trophoblastic cell fusion. <i>Molecular Biology of the Cell</i> , 2010 , 21, 3973-84	3.5	59

237	Elf5-centered transcription factor hub controls trophoblast stem cell self-renewal and differentiation through stoichiometry-sensitive shifts in target gene networks. <i>Genes and Development</i> , 2015 , 29, 2435-48	12.6	58
236	Efficient derivation of embryonic stem cells by inhibition of glycogen synthase kinase-3. <i>Stem Cells</i> , 2007 , 25, 2705-11	5.8	58
235	Efficient selection of transgenic mouse embryos using EGFP as a marker gene. <i>Molecular Reproduction and Development</i> , 1999 , 54, 43-8	2.6	58
234	Sperm-borne phospholipase C zeta-1 ensures monospermic fertilization in mice. <i>Scientific Reports</i> , 2018 , 8, 1315	4.9	57
233	Putative sperm fusion protein IZUMO and the role of N-glycosylation. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 377, 910-4	3.4	57
232	Single-step generation of rabbits carrying a targeted allele of the tyrosinase gene using CRISPR/Cas9. <i>Experimental Animals</i> , 2015 , 64, 31-7	1.8	56
231	CKAP4, a DKK1 Receptor, Is a Biomarker in Exosomes Derived from Pancreatic Cancer and a Molecular Target for Therapy. <i>Clinical Cancer Research</i> , 2019 , 25, 1936-1947	12.9	55
230	Two transcripts regulated by m6A methylation code for two antagonistic kinases in the control of the circadian clock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 5980-5985	11.5	55
229	Quantitative assessment of telomerase components in cancer cell lines. <i>FEBS Letters</i> , 2015 , 589, 974-84	3.8	54
228	Cold-inducible RNA-binding protein (Cirp) interacts with Dyrk1b/Mirk and promotes proliferation of immature male germ cells in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 10885-90	11.5	54
227	Mice deficient in ficolin, a lectin complement pathway recognition molecule, are susceptible to <i>Streptococcus pneumoniae</i> infection. <i>Journal of Immunology</i> , 2012 , 189, 5860-6	5.3	53
226	Green fluorescent protein (GFP) as a vital marker in mammals. <i>Current Topics in Developmental Biology</i> , 1999 , 44, 1-20	5.3	53
225	Selective passage through the uterotubal junction of sperm from a mixed population produced by chimeras of calmegin-knockout and wild-type male mice. <i>Biology of Reproduction</i> , 2004 , 71, 959-65	3.9	53
224	Testis-Specific Histone Variant H3t Gene Is Essential for Entry into Spermatogenesis. <i>Cell Reports</i> , 2017 , 18, 593-600	10.6	52
223	Neutrophil infiltration during inflammation is regulated by PILRE α via modulation of integrin activation. <i>Nature Immunology</i> , 2013 , 14, 34-40	19.1	52
222	APJ Regulates Parallel Alignment of Arteries and Veins in the Skin. <i>Developmental Cell</i> , 2015 , 33, 247-59	10.2	50
221	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. <i>Molecular and Cellular Biology</i> , 2004 , 24, 3712-9	4.8	49
220	A Role of TMEM16E Carrying a Scrambling Domain in Sperm Motility. <i>Molecular and Cellular Biology</i> , 2016 , 36, 645-59	4.8	48

219	TCTE1 is a conserved component of the dynein regulatory complex and is required for motility and metabolism in mouse spermatozoa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E5370-E5378	11.5	47
218	Deletion of SERP1/RAMP4, a component of the endoplasmic reticulum (ER) translocation sites, leads to ER stress. <i>Molecular and Cellular Biology</i> , 2006 , 26, 4257-67	4.8	47
217	CRISPR/Cas9-mediated genome editing reveals 30 testis-enriched genes dispensable for male fertility in mice. <i>Biology of Reproduction</i> , 2019 , 101, 501-511	3.9	45
216	Sperm postacrosomal WW domain-binding protein is not required for mouse egg activation. <i>Biology of Reproduction</i> , 2015 , 93, 94	3.9	45
215	Bi-allelic DNAH8 Variants Lead to Multiple Morphological Abnormalities of the Sperm Flagella and Primary Male Infertility. <i>American Journal of Human Genetics</i> , 2020 , 107, 330-341	11	45
214	CRISPR/Cas9-based genome editing in mice by single plasmid injection. <i>Methods in Enzymology</i> , 2014 , 546, 319-36	1.7	45
213	The mechanism of sperm-egg interaction and the involvement of IZUMO1 in fusion. <i>Asian Journal of Andrology</i> , 2011 , 13, 81-7	2.8	45
212	Structural insights into tetraspanin CD9 function. <i>Nature Communications</i> , 2020 , 11, 1606	17.4	44
211	RSPH6A is required for sperm flagellum formation and male fertility in mice. <i>Journal of Cell Science</i> , 2018 , 131,	5.3	43
210	Green fluorescent protein-transgenic mice: immune functions and their application to studies of lymphocyte development. <i>Immunology Letters</i> , 1999 , 70, 165-71	4.1	42
209	Sperm proteins SOF1, TMEM95, and SPACA6 are required for sperm-oocyte fusion in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 11493-11502	11.5	41
208	STING in tumor and host cells cooperatively work for NK cell-mediated tumor growth retardation. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 478, 1764-71	3.4	39
207	Transcriptional activation of a hybrid promoter composed of cytomegalovirus enhancer and beta-actin/beta-globin gene in glomerular epithelial cells in vivo. <i>Kidney International</i> , 1997 , 51, 1265-9	9.9	37
206	Identification and disruption of sperm-specific angiotensin converting enzyme-3 (ACE3) in mouse. <i>PLoS ONE</i> , 2010 , 5, e10301	3.7	37
205	Mice expressing aberrant sperm-specific protein PMIS2 produce normal-looking but fertilization-incompetent spermatozoa. <i>Molecular Biology of the Cell</i> , 2012 , 23, 2671-9	3.5	36
204	Ghrelin deficiency does not influence feeding performance. <i>Regulatory Peptides</i> , 2008 , 145, 7-11		36
203	GPI-AP release in cellular, developmental, and reproductive biology. <i>Journal of Lipid Research</i> , 2016 , 57, 538-45	6.3	35
202	Structural and functional insights into IZUMO1 recognition by JUNO in mammalian fertilization. <i>Nature Communications</i> , 2016 , 7, 12198	17.4	35

201	Fertilization defects in sperm from Cysteine-rich secretory protein 2 (Crisp2) knockout mice: implications for fertility disorders. <i>Molecular Human Reproduction</i> , 2016 , 22, 240-51	4.4	34
200	CRISPR/Cas9-Mediated Rapid Generation of Multiple Mouse Lines Identified Ccdc63 as Essential for Spermiogenesis. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 24732-50	6.3	34
199	L-amino acid oxidase plays a crucial role in host defense in the mammary glands. <i>FASEB Journal</i> , 2009 , 23, 2514-20	0.9	34
198	The testes-specific bZip type transcription factor Tisp40 plays a role in ER stress responses and chromatin packaging during spermiogenesis. <i>Genes To Cells</i> , 2006 , 11, 1161-71	2.3	34
197	Identification of semaphorin 4B as a negative regulator of basophil-mediated immune responses. <i>Journal of Immunology</i> , 2011 , 186, 2881-8	5.3	33
196	Biogenesis of sperm acrosome is regulated by pre-mRNA alternative splicing of Acrbp in the mouse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3696-705	11.5	32
195	Regulation of intestinal homeostasis by the ulcerative colitis-associated gene RNF186. <i>Mucosal Immunology</i> , 2017 , 10, 446-459	9.2	31
194	Deletion of N-myc downstream-regulated gene 2 attenuates reactive astrogliosis and inflammatory response in a mouse model of cortical stab injury. <i>Journal of Neurochemistry</i> , 2014 , 130, 374-87	6	31
193	N-terminal truncation of Lats1 causes abnormal cell growth control and chromosomal instability. <i>Journal of Cell Science</i> , 2013 , 126, 508-20	5.3	31
192	Trophoblast-Specific Conditional Atg7 Knockout Mice Develop Gestational Hypertension. <i>American Journal of Pathology</i> , 2018 , 188, 2474-2486	5.8	30
191	Factors controlling sperm migration through the oviduct revealed by gene-modified mouse models. <i>Experimental Animals</i> , 2018 , 67, 91-104	1.8	29
190	Double strand break repair by capture of retrotransposon sequences and reverse-transcribed spliced mRNA sequences in mouse zygotes. <i>Scientific Reports</i> , 2015 , 5, 12281	4.9	29
189	Essential role of autoactivation circuitry on Aurora B-mediated H2AX-pS121 in mitosis. <i>Nature Communications</i> , 2016 , 7, 12059	17.4	28
188	Spermatozoa lacking Fertilization Influencing Membrane Protein (FIMP) fail to fuse with oocytes in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9393-9400	11.5	28
187	BATF2 inhibits immunopathological Th17 responses by suppressing expression during infection. <i>Journal of Experimental Medicine</i> , 2017 , 214, 1313-1331	16.6	27
186	NUCKS is a positive transcriptional regulator of insulin signaling. <i>Cell Reports</i> , 2014 , 7, 1876-86	10.6	27
185	Mice with markedly reduced PACAP (PAC(1)) receptor expression by targeted deletion of the signal peptide. <i>Journal of Neurochemistry</i> , 2000 , 75, 1810-7	6	27
184	Disruption of the novel gene fad104 causes rapid postnatal death and attenuation of cell proliferation, adhesion, spreading and migration. <i>Experimental Cell Research</i> , 2009 , 315, 809-19	4.2	26

183	Homologous recombination in rat germline stem cells. <i>Biology of Reproduction</i> , 2011 , 85, 208-17	3.9	26
182	Cd52, known as a major maturation-associated sperm membrane antigen secreted from the epididymis, is not required for fertilization in the mouse. <i>Genes To Cells</i> , 2008 , 13, 851-61	2.3	26
181	RECS1 deficiency in mice induces susceptibility to cystic medial degeneration. <i>Genes and Genetic Systems</i> , 2006 , 81, 41-50	1.4	26
180	Synthesis of a new Cre recombinase gene based on optimal codon usage for mammalian systems. <i>Journal of Biochemistry</i> , 2000 , 127, 367-72	3.1	26
179	Role of calnexin in the ER quality control and productive folding of CFTR; differential effect of calnexin knockout on wild-type and DeltaF508 CFTR. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008 , 1783, 1585-94	4.9	25
178	Rapid generation of knockdown transgenic mice by silencing lentiviral vectors. <i>Nature Protocols</i> , 2006 , 1, 286-92	18.8	25
177	Evidence for lysosomal biogenesis proteome defect and impaired autophagy in preeclampsia. <i>Autophagy</i> , 2020 , 16, 1771-1785	10.2	25
176	Roles of integrins and CD44 on the adhesion and migration of fetal liver cells to the fetal thymus. <i>Journal of Immunology</i> , 1999 , 163, 3211-6	5.3	25
175	CABYR is essential for fibrous sheath integrity and progressive motility in mouse spermatozoa. <i>Journal of Cell Science</i> , 2016 , 129, 4379-4387	5.3	24
174	Bis deficiency results in early lethality with metabolic deterioration and involution of spleen and thymus. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 295, E1349-57	6	24
173	NELL2-mediated lumicrine signaling through OVCH2 is required for male fertility. <i>Science</i> , 2020 , 368, 1132-1135	33.3	23
172	The Mg ²⁺ transporter CNNM4 regulates sperm Ca ²⁺ homeostasis and is essential for reproduction. <i>Journal of Cell Science</i> , 2016 , 129, 1940-9	5.3	23
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17	Uterine Epithelial LIF Receptors Contribute to Implantation Chamber Formation in Blastocyst Attachment. <i>Endocrinology</i> , 2021 , 162,	4.8	1
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8	Trim41 is required to regulate chromosome axis protein dynamics and meiosis in male mice. <i>PLoS Genetics</i> , 2022 , 18, e1010241	6	0
7	IRGC1, a testis-enriched immunity related GTPase, is important for fibrous sheath integrity and sperm motility in mice. <i>Developmental Biology</i> , 2022 , 488, 104-113	3.1	0
6	Knockout of Cytidine Monophospho-N-Acetylneuraminic Acid (CMP-NeuAc) Hydroxylase From Porcine Endothelial Cells by a CRISPR System. <i>Transplantation Proceedings</i> , 2016 , 48, 1320-2	1.1	
5	Visualization of the moment of mouse sperm-egg fusion and dynamic localization of IZUMO1. <i>Development (Cambridge)</i> , 2013 , 140, e1-e1	6.6	
4	N-terminal truncation of Lats1 causes abnormal cell growth control and chromosomal instability. <i>Development (Cambridge)</i> , 2013 , 140, e907-e907	6.6	

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- 1 In vitro and in vivo studies to prevent hyperacute rejection. *Transplantation Proceedings*, **1996**, 28, 1031-3.1