Masahito Ikawa

List of Publications by Year in Descending Order

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	Loss of the N-acetylgalactosamine side chain of the GPI-anchor impairs bone formation and brain functions and accelerates the prion disease pathology.. *Journal of Biological Chemistry*, **2022**, 101720	5.4	1
325	C2cd6-encoded CatSperζ targets sperm calcium channel to Ca signaling domains in the flagellar membrane.. *Cell Reports*, **2022**, 110226	10.6	2
324	Kastor and Polluks polypeptides encoded by a single gene locus cooperatively regulate VDAC and spermatogenesis.. *Nature Communications*, **2022**, 13, 1071	17.4	0
323	The Mechanism of Pertussis Cough Revealed by the Mouse-Coughing Model.. *MBio*, **2022**, e0319721	7.8	2
322	Loss of mouse Y chromosome gene Zfy1 and Zfy2 leads to spermatogenesis impairment, sperm defects, and infertility.. *Biology of Reproduction*, **2022**,	3.9	1
321	Sperm membrane proteins DCST1 and DCST2 are required for sperm-egg interaction in mice and fish.. *Communications Biology*, **2022**, 5, 332	6.7	2
320	Aspects of the Complement System in New Era of Xenotransplantation.. *Frontiers in Immunology*, **2022**, 13, 860165	8.4	0
319	Trim41 is required to regulate chromosome axis protein dynamics and meiosis in male mice. *PLoS Genetics*, **2022**, 18, e1010241	6	0
318	IRGC1, a testis-enriched immunity related GTPase, is important for fibrous sheath integrity and sperm motility in mice. *Developmental Biology*, **2022**, 488, 104-113	3.1	0
317	Sperm IZUMO1 Is Required for Binding Preceding Fusion With Oolemma in Mice and Rats.. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 810118	5.7	2
316	MORC3, a novel MIWI2 association partner, as an epigenetic regulator of piRNA dependent transposon silencing in male germ cells. *Scientific Reports*, **2021**, 11, 20472	4.9	1
315	FAM71F1 binds to RAB2A and RAB2B and is essential for acrosome formation and male fertility in mice. *Development (Cambridge)*, **2021**, 148,	6.6	1
314	: an evolutionarily conserved lncRNA essential for licensing coordinated activation of p38 and NFB in colitis. *Gut*, **2021**, 70, 1857-1871	19.2	9
313	Protocol for isolation of spermatids from mouse testes. *STAR Protocols*, **2021**, 2, 100254	1.4	0
312	Cooperation-based sperm clusters mediate sperm oviduct entry and fertilization. *Protein and Cell*, **2021**, 12, 810-817	7.2	4
311	Identification and characterization of the antigen recognized by the germ cell mAb TRA98 using a human comprehensive wet protein array. *Genes To Cells*, **2021**, 26, 180-189	2.3	0
310	A novel tissue specific alternative splicing variant mitigates phenotypes in Ets2 frame-shift mutant models. *Scientific Reports*, **2021**, 11, 8297	4.9	0

309	Thiazoline-related innate fear stimuli orchestrate hypothermia and anti-hypoxia via sensory TRPA1 activation. *Nature Communications*, **2021**, 12, 2074	17.4	5
308	KCTD19 and its associated protein ZFP541 are independently essential for meiosis in male mice. *PLoS Genetics*, **2021**, 17, e1009412	6	3
307	Endometrial receptivity and implantation require uterine BMP signaling through an ACVR2A-SMAD1/SMAD5 axis. *Nature Communications*, **2021**, 12, 3386	17.4	3
306	Lens-specific conditional knockout of tropomyosin 1 gene in mice causes abnormal fiber differentiation and lens opacity. *Mechanisms of Ageing and Development*, **2021**, 196, 111492	5.6	
305	Intergenerational effect of short-term spaceflight in mice. *IScience*, **2021**, 24, 102773	6.1	1
304	Precise CAG repeat contraction in a Huntington Disease mouse model is enabled by gene editing with SpCas9-NG. *Communications Biology*, **2021**, 4, 771	6.7	1
303	Astrocytic cAMP modulates memory via synaptic plasticity. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	10
302	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,	11.5	13
301	RanGTP and the actin cytoskeleton keep paternal and maternal chromosomes apart during fertilization. *Journal of Cell Biology*, **2021**, 220,	7.3	2
300	SPATA33 localizes calcineurin to the mitochondria and regulates sperm motility in mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	3
299	Rubicon prevents autophagic degradation of GATA4 to promote Sertoli cell function. *PLoS Genetics*, **2021**, 17, e1009688	6	3
298	Uterine Epithelial LIF Receptors Contribute to Implantation Chamber Formation in Blastocyst Attachment. *Endocrinology*, **2021**, 162,	4.8	1
297	A sublethal ATP11A mutation associated with neurological deterioration causes aberrant phosphatidylcholine flipping in plasma membranes. *Journal of Clinical Investigation*, **2021**, 131,	15.9	3
296	The conserved fertility factor SPACA4/Bouncer has divergent modes of action in vertebrate fertilization. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	7
295	FAM209 associates with DPY19L2, and is required for sperm acrosome biogenesis and fertility in mice. *Journal of Cell Science*, **2021**, 134,	5.3	3
294	LRRC23 is a conserved component of the radial spoke that is necessary for sperm motility and male fertility in mice. *Journal of Cell Science*, **2021**, 134,	5.3	2
293	CIB4 is essential for the haploid phase of spermatogenesis in mice *Biology of Reproduction*, **2020**, 103, 235-243	3.9	3
292	Sperm proteins SOF1, TMEM95, and SPACA6 are required for sperm-oocyte fusion in mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 11493-11502	11.5	41

291	Tmprss12 is required for sperm motility and uterotubal junction migration in mice. *Biology of Reproduction*, **2020**, 103, 254-263	3.9	12
290	NELL2-mediated lumicrine signaling through OVCH2 is required for male fertility. *Science*, **2020**, 368, 1132-1135	33.3	23
289	Knockout of family with sequence similarity 170 member A (Fam170a) causes male subfertility, while Fam170b is dispensable in mice. *Biology of Reproduction*, **2020**, 103, 205-222	3.9	4
288	Reduction in BDNF from Inefficient Precursor Conversion Influences Nest Building and Promotes Depressive-Like Behavior in Mice. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
287	CRISPR/Cas9-based genome editing in mice uncovers 13 testis- or epididymis-enriched genes individually dispensable for male reproduction. *Biology of Reproduction*, **2020**, 103, 183-194	3.9	6
286	CRISPR/Cas9-mediated genome-edited mice reveal 10 testis-enriched genes are dispensable for male fecundity. *Biology of Reproduction*, **2020**, 103, 195-204	3.9	12
285	Analysis of the sperm flagellar axoneme using gene-modified mice. *Experimental Animals*, **2020**, 69, 374-381	1.8	3
284	Identification of transmembrane protein 168 mutation in familial Brugada syndrome. *FASEB Journal* , **2020**, 34, 6399-6417	0.9	0
283	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	11	45
282	Testis-enriched kinesin KIF9 is important for progressive motility in mouse spermatozoa. *FASEB Journal*, **2020**, 34, 5389-5400	0.9	12
281	IgSF11 regulates osteoclast differentiation through association with the scaffold protein PSD-95. *Bone Research*, **2020**, 8, 5	13.3	5
280	Nexin-Dynein regulatory complex component DRC7 but not FBXL13 is required for sperm flagellum formation and male fertility in mice. *PLoS Genetics*, **2020**, 16, e1008585	6	15
279	Structural insights into tetraspanin CD9 function. *Nature Communications*, **2020**, 11, 1606	17.4	44
278	The testis-specific serine proteases PRSS44, PRSS46, and PRSS54 are dispensable for male mouse fertility. *Biology of Reproduction*, **2020**, 102, 84-91	3.9	17
277	RNA-binding protein Ptbp1 regulates alternative splicing and transcriptome in spermatogonia and maintains spermatogenesis in concert with Nanos3. *Journal of Reproduction and Development*, **2020** , 66, 459-467	2.1	1
276	DGK Knock-Out Mice Show Impairments in Cerebellar Motor Coordination, LTD, and the Dendritic Development of Purkinje Cells through the Activation of PKC *ENeuro*, **2020**, 7,	3.9	6
275	Protocadherin-7 contributes to maintenance of bone homeostasis through regulation of osteoclast multinucleation. *BMB Reports*, **2020**, 53, 472-477	5.5	0
274	PITHD1 is a proteasome-interacting protein essential for male fertilization. *Journal of Biological Chemistry*, **2020**, 295, 1658-1672	5.4	3

273	Tesmin, Metallothionein-Like 5, is Required for Spermatogenesis in Mice *Biology of Reproduction*, **2020**, 102, 975-983	3.9	7
272	Evidence for lysosomal biogenesis proteome defect and impaired autophagy in preeclampsia. *Autophagy*, **2020**, 16, 1771-1785	10.2	25
271	Mouse t-complex protein 11 is important for progressive motility in sperm *Biology of Reproduction*, **2020**, 102, 852-862	3.9	7
270	Genetic loss of importin 4 causes abnormal sperm morphology and impacts on male fertility in mouse. *FASEB Journal*, **2020**, 34, 16224-16242	0.9	6
269	PHF7 Modulates BRDT Stability and Histone-to-Protamine Exchange during Spermiogenesis. *Cell Reports*, **2020**, 32, 107950	10.6	5
268	Diphtheria toxin-mediated transposon-driven poly (A)-trapping efficiently disrupts transcriptionally silent genes in embryonic stem cells. *Genesis*, **2020**, 58, e23386	1.9	
267	CRISPR/CAS9-mediated amino acid substitution reveals phosphorylation residues of RSPH6A are not essential for male fertility in mice *Biology of Reproduction*, **2020**, 103, 912-914	3.9	2
266	Large-scale discovery of male reproductive tract-specific genes through analysis of RNA-seq datasets. *BMC Biology*, **2020**, 18, 103	7.3	10
265	PGAP6, a GPI-specific phospholipase A2, has narrow substrate specificity against GPI-anchored proteins. *Journal of Biological Chemistry*, **2020**, 295, 14501-14509	5.4	1
264	Genetic mutation of Frem3 does not causeFraser syndrome in mice. *Experimental Animals*, **2020**, 69, 104-109	1.9	2
263	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	11.5	28
262	Knockout of serine-rich single-pass membrane protein 1 (Ssmem1) causes globozoospermia and sterility in male mice *Biology of Reproduction*, **2020**, 103, 244-253	3.9	3
261	Prss55 but not Prss51 is required for male fertility in mice *Biology of Reproduction*, **2020**, 103, 223-234	3.9	9
260	CRISPR/Cas9-Mediated Genome Editing Reveals Family Genes are Dispensable for Female Fertility in Mice. *Cells*, **2020**, 9,	7.9	2
259	Male mice, caged in the International Space Station for 35 days, sire healthy offspring. *Scientific Reports*, **2019**, 9, 13733	4.9	13
258	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	2.1	16
257	CRISPR/Cas9-mediated genome editing reveals 30 testis-enriched genes dispensable for male fertility in mice *Biology of Reproduction*, **2019**, 101, 501-511	3.9	45
256	Physiological function of seminal vesicle secretions on male fecundity. *Reproductive Medicine and Biology*, **2019**, 18, 241-246	4.1	7

255	Calaxin is required for cilia-driven determination of vertebrate laterality. *Communications Biology*, **2019**, 2, 226	6.7	11
254	PTBP1 contributes to spermatogenesis through regulation of proliferation in spermatogonia. *Journal of Reproduction and Development*, **2019**, 65, 37-46	2.1	4
253	Nine genes abundantly expressed in the epididymis are not essential for male fecundity in mice. *Andrology*, **2019**, 7, 644-653	4.2	18
252	Mice with Calr mutations homologous to human CALR mutations only exhibit mild thrombocytosis. *Blood Cancer Journal*, **2019**, 9, 42	7	12
251	GPAT2 is required for piRNA biogenesis, transposon silencing, and maintenance of spermatogonia in mice *Biology of Reproduction*, **2019**, 101, 248-256	3.9	4
250	Chimeric analysis with newly established EGFP/DsRed2-tagged ES cells identify HYDIN as essential for spermiogenesis in mice. *Experimental Animals*, **2019**, 68, 25-34	1.8	11
249	Developmental analyses of mouse embryos and adults using a non-overlapping tracing system for all three germ layers. *Development (Cambridge)*, **2019**, 146,	6.6	4
248	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	11.5	23
247	Lvrn expression is not critical for mouse placentation. *Journal of Reproduction and Development*, **2019**, 65, 239-244	2.1	1
246	Polarized PtdIns(4,5)P distribution mediated by a voltage-sensing phosphatase (VSP) regulates sperm motility. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 26020-26028	11.5	6
245	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	5.3	20
244	Rap1 regulates hematopoietic stem cell survival and affects oncogenesis and response to chemotherapy. *Nature Communications*, **2019**, 10, 5349	17.4	19
243	Seminal vesicle secretory protein 7, PATE4, is not required for sperm function but for copulatory plug formation to ensure fecundity *Biology of Reproduction*, **2019**, 100, 1035-1045	3.9	16
242	USP15 Participates in Hepatitis C Virus Propagation through Regulation of Viral RNA Translation and Lipid Droplet Formation. *Journal of Virology*, **2019**, 93,	6.6	8
241	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	2.1	18
240	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	12.9	55
239	Ventricular-subventricular zone fractones are speckled basement membranes that function as a neural stem cell niche. *Molecular Biology of the Cell*, **2019**, 30, 56-68	3.5	13
238	Tropomyosin 2 heterozygous knockout in mice using CRISPR-Cas9 system displays the inhibition of injury-induced epithelial-mesenchymal transition, and lens opacity. *Mechanisms of Ageing and Development*, **2018**, 171, 24-30	5.6	9

237	Transgenic mouse lines expressing the 3xFLAG-dCas9 protein for enChIP analysis. *Genes To Cells*, **2018**, 23, 318-325	2.3	8
236	Sperm-borne phospholipase C zeta-1 ensures monospermic fertilization in mice. *Scientific Reports*, **2018**, 8, 1315	4.9	57
235	Factors controlling sperm migration through the oviduct revealed by gene-modified mouse models. *Experimental Animals*, **2018**, 67, 91-104	1.8	29
234	MARCKSL1 Regulates Spine Formation in the Amygdala and Controls the Hypothalamic-Pituitary-Adrenal Axis and Anxiety-Like Behaviors. *EBioMedicine*, **2018**, 30, 62-73	8.8	1
233	Intravesicular Acidification Regulates Lipopolysaccharide Inflammation and Tolerance through TLR4 Trafficking. *Journal of Immunology*, **2018**, 200, 2798-2808	5.3	13
232	Sperm Defects **2018**, 276-281		2
231	Laminin 1 C-terminal Glu to Gln mutation induces early postimplantation lethality. *Life Science Alliance*, **2018**, 1, e201800064	5.8	4
230	Revolutionizing male fertility factor research in mice by using the genome editing tool CRISPR/Cas9. *Reproductive Medicine and Biology*, **2018**, 17, 3-10	4.1	20
229	Impaired male fertility and abnormal epididymal epithelium differentiation in mice lacking CRISP1 and CRISP4. *Scientific Reports*, **2018**, 8, 17531	4.9	18
228	mDia1/3 generate cortical F-actin meshwork in Sertoli cells that is continuous with contractile F-actin bundles and indispensable for spermatogenesis and male fertility. *PLoS Biology*, **2018**, 16, e2004874	9.7	12
227	Infection with flaviviruses requires BCLXL for cell survival. *PLoS Pathogens*, **2018**, 14, e1007299	7.6	18
226	Co-expression of sperm membrane proteins CMTM2A and CMTM2B is essential for ADAM3 localization and male fertility in mice. *Journal of Cell Science*, **2018**, 131,	5.3	19
225	RSPH6A is required for sperm flagellum formation and male fertility in mice. *Journal of Cell Science*, **2018**, 131,	5.3	43
224	New Insights into the Molecular Events of Mammalian Fertilization. *Trends in Biochemical Sciences*, **2018**, 43, 818-828	10.3	16
223	Trophoblast-Specific Conditional Atg7 Knockout Mice Develop Gestational Hypertension. *American Journal of Pathology*, **2018**, 188, 2474-2486	5.8	30
222	Engineered CRISPR-Cas9 nuclease with expanded targeting space. *Science*, **2018**, 361, 1259-1262	33.3	486
221	Two 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	11.5	55
220	Regulation of intestinal homeostasis by the ulcerative colitis-associated gene RNF186. *Mucosal Immunology*, **2017**, 10, 446-459	9.2	31

219	Testis-Specific Histone Variant H3t Gene Is Essential for Entry into Spermatogenesis. *Cell Reports*, **2017**, 18, 593-600	10.6	52
218	Muscle-specific deletion of BDK amplifies loss of myofibrillar protein during protein undernutrition. *Scientific Reports*, **2017**, 7, 39825	4.9	17
217	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	8.5	84
216	The mechanics clarifying counterclockwise rotation in most IVF eggs in mice. *Scientific Reports*, **2017**, 7, 43456	4.9	2
215	New insights into the role of Jmjd3 and Utx in axial skeletal formation in mice. *FASEB Journal*, **2017**, 31, 2252-2266	0.9	18
214	Viable offspring after imaging of Ca2+ oscillations and visualization of the cortical reaction in mouse eggs. *Biology of Reproduction*, **2017**, 96, 563-575	3.9	8
213	BATF2 inhibits immunopathological Th17 responses by suppressing expression during infection. *Journal of Experimental Medicine*, **2017**, 214, 1313-1331	16.6	27
212	Placenta-specific gene manipulation using lentiviral vector and its application. *Placenta*, **2017**, 59 Suppl 1, S37-S43	3.4	8
211	Vestigial-like 2 contributes to normal muscle fiber type distribution in mice. *Scientific Reports*, **2017**, 7, 7168	4.9	22
210	Suppression of HBV replication by the expression of nickase- and nuclease dead-Cas9. *Scientific Reports*, **2017**, 7, 6122	4.9	11
209	Modification of single-nucleotide polymorphism in a fully humanized CYP3A mouse by genome editing technology. *Scientific Reports*, **2017**, 7, 15189	4.9	20
208	A delayed sperm penetration of cumulus layers by disruption of acrosin gene in rats. *Biology of Reproduction*, **2017**, 97, 61-68	3.9	19
207	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	11.5	47
206	Human Globozoospermia-Related Gene Spata16 Is Required for Sperm Formation Revealed by CRISPR/Cas9-Mediated Mouse Models. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	23
205	Mouse spermatozoa with higher fertilization rates have thinner nuclei. *PeerJ*, **2017**, 5, e3913	3.1	8
204	Genome Editing in Mouse Zygotes and Embryonic Stem Cells by Introducing SgRNA/Cas9 Expressing Plasmids. *Methods in Molecular Biology*, **2017**, 1630, 67-80	1.4	16
203	A GPI processing phospholipase A2, PGAP6, modulates Nodal signaling in embryos by shedding CRIPTO. *Journal of Cell Biology*, **2016**, 215, 705-718	7.3	22
202	Ground-based assessment of JAXA mouse habitat cage unit by mouse phenotypic studies. *Experimental Animals*, **2016**, 65, 175-87	1.8	18

201	CRISPR/Cas9-mediated mutation revealed cytoplasmic tail is dispensable for IZUMO1 function and male fertility. *Reproduction*, **2016**, 152, 665-672	3.8	11
200	Generation of Hprt-disrupted rat through mouse<-rat ES chimeras. *Scientific Reports*, **2016**, 6, 24215	4.9	9
199	CRISPR/Cas9 mediated genome editing in ES cells and its application for chimeric analysis in mice. *Scientific Reports*, **2016**, 6, 31666	4.9	61
198	CABYR is essential for fibrous sheath integrity and progressive motility in mouse spermatozoa. *Journal of Cell Science*, **2016**, 129, 4379-4387	5.3	24
197	Essential role of autoactivation circuitry on Aurora B-mediated H2AX-pS121 in mitosis. *Nature Communications*, **2016**, 7, 12059	17.4	28
196	Expression of a Synthetic Gene of CTDM by Transgenic Animals. *Transplantation Proceedings*, **2016**, 48, 1279-81	1.1	2
195	Human HLA-Ev (147) Expression in Transgenic Animals. *Transplantation Proceedings*, **2016**, 48, 1323-5	1.1	1
194	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, E3696-705	11.5	32
193	Kidney-specific knockout of Sav1 in the mouse promotes hyperproliferation of renal tubular epithelium through suppression of the Hippo pathway. *Journal of Pathology*, **2016**, 239, 97-108	9.4	16
192	Knockout of Cytidine Monophospho-N-Acetylneuraminic Acid (CMP-NeuAc) Hydroxylase From Porcine Endothelial Cells by a CRISPR System. *Transplantation Proceedings*, **2016**, 48, 1320-2	1.1	
191	Fertilization defects in sperm from Cysteine-rich secretory protein 2 (Crisp2) knockout mice: implications for fertility disorders. *Molecular Human Reproduction*, **2016**, 22, 240-51	4.4	34
190	GPI-AP release in cellular, developmental, and reproductive biology. *Journal of Lipid Research*, **2016**, 57, 538-45	6.3	35
189	Behavior of Mouse Spermatozoa in the Female Reproductive Tract from Soon after Mating to the Beginning of Fertilization. *Biology of Reproduction*, **2016**, 94, 80	3.9	69
188	The Mg2+ transporter CNNM4 regulates sperm Ca2+ homeostasis and is essential for reproduction. *Journal of Cell Science*, **2016**, 129, 1940-9	5.3	23
187	A Role of TMEM16E Carrying a Scrambling Domain in Sperm Motility. *Molecular and Cellular Biology*, **2016**, 36, 645-59	4.8	48
186	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, 7704-10	11.5	98
185	Lentiviral Vector-Mediated Complementation Restored Fetal Viability but Not Placental Hyperplasia in Plac1-Deficient Mice. *Biology of Reproduction*, **2016**, 94, 6	3.9	13
184	Structural and functional insights into IZUMO1 recognition by JUNO in mammalian fertilization. *Nature Communications*, **2016**, 7, 12198	17.4	35

183	Complementary role of CNNM2 in sperm motility and Ca(2+) influx during capacitation. *Biochemical and Biophysical Research Communications*, **2016**, 474, 441-446	3.4	5
182	STING in tumor and host cells cooperatively work for NK cell-mediated tumor growth retardation. *Biochemical and Biophysical Research Communications*, **2016**, 478, 1764-71	3.4	39
181	APJ Regulates Parallel Alignment of Arteries and Veins in the Skin. *Developmental Cell*, **2015**, 33, 247-59	10.2	50
180	One-step generation of multiple transgenic mouse lines using an improved Pronuclear Injection-based Targeted Transgenesis (i-PITT). *BMC Genomics*, **2015**, 16, 274	4.5	17
179	Genome Editing in Mice Using CRISPR/Cas **2015**, 151-166		1
178	Quantitative assessment of telomerase components in cancer cell lines. *FEBS Letters*, **2015**, 589, 974-84	3.8	54
177	Sperm calcineurin inhibition prevents mouse fertility with implications for male contraceptive. *Science*, **2015**, 350, 442-5	33.3	100
176	Sperm postacrosomal WW domain-binding protein is not required for mouse egg activation. *Biology of Reproduction*, **2015**, 93, 94	3.9	45
175	Pluripotent stem cells derived from mouse primordial germ cells by small molecule compounds. *Stem Cells*, **2015**, 33, 45-55	5.8	22
174	Calreticulin is required for development of the cumulus oocyte complex and female fertility. *Scientific Reports*, **2015**, 5, 14254	4.9	22
173	Single-step generation of rabbits carrying a targeted allele of the tyrosinase gene using CRISPR/Cas9. *Experimental Animals*, **2015**, 64, 31-7	1.8	56
172	Double strand break repair by capture of retrotransposon sequences and reverse-transcribed spliced mRNA sequences in mouse zygotes. *Scientific Reports*, **2015**, 5, 12281	4.9	29
171	Calreticulin Regulates Neointima Formation and Collagen Deposition following Carotid Artery Ligation. *Journal of Vascular Research*, **2015**, 52, 306-20	1.9	13
170	Calcitonin Receptor Signaling Inhibits Muscle Stem Cells from Escaping the Quiescent State and the Niche. *Cell Reports*, **2015**, 13, 302-14	10.6	62
169	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, 2435-48	12.6	58
168	CRISPR/Cas9-Mediated Rapid Generation of Multiple Mouse Lines Identified Ccdc63 as Essential for Spermiogenesis. *International Journal of Molecular Sciences*, **2015**, 16, 24732-50	6.3	34
167	A novel transcriptional factor Nkapl is a germ cell-specific suppressor of Notch signaling and is indispensable for spermatogenesis. *PLoS ONE*, **2015**, 10, e0124293	3.7	19
166	Advantages of using the CRISPR/Cas9 system of genome editing to investigate male reproductive mechanisms using mouse models. *Asian Journal of Andrology*, **2015**, 17, 623-7	2.8	6

165	Feasibility for a large scale mouse mutagenesis by injecting CRISPR/Cas plasmid into zygotes. *Development Growth and Differentiation*, **2014**, 56, 122-9	3	67
164	CRISPR/Cas9-based genome editing in mice by single plasmid injection. *Methods in Enzymology*, **2014**, 546, 319-36	1.7	45
163	Deletion of N-myc downstream-regulated gene 2 attenuates reactive astrogliosis and inflammatory response in a mouse model of cortical stab injury. *Journal of Neurochemistry*, **2014**, 130, 374-87	6	31
162	NUCKS is a positive transcriptional regulator of insulin signaling. *Cell Reports*, **2014**, 7, 1876-86	10.6	27
161	GPI-anchored protein complex, LY6K/TEX101, is required for sperm migration into the oviduct and male fertility in mice. *Biology of Reproduction*, **2014**, 90, 60	3.9	63
160	Simple generation of albino C57BL/6J mice with G291T mutation in the tyrosinase gene by the CRISPR/Cas9 system. *Mammalian Genome*, **2014**, 25, 327-34	3.2	78
159	Effect of isolated AMP deaminase deficiency on skeletal muscle function. *Molecular Genetics and Metabolism Reports*, **2014**, 1, 51-59	1.8	6
158	Liver-specific □glutamyl carboxylase-deficient mice display bleeding diathesis and short life span. *PLoS ONE*, **2014**, 9, e88643	3.7	8
157	Rhof promotes murine marginal zone B cell development. *Nagoya Journal of Medical Science*, **2014**, 76, 293-305	0.7	4
156	Generation of mutant mice by pronuclear injection of circular plasmid expressing Cas9 and single guided RNA. *Scientific Reports*, **2013**, 3, 3355	4.9	298
155	Neutrophil infiltration during inflammation is regulated by PILR□via modulation of integrin activation. *Nature Immunology*, **2013**, 14, 34-40	19.1	52
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1	The sperm protein SPACA4 is required for efficient fertilization in mice	1