Takashi Yamamoto

List of Publications by Year
in descending order

267	10,792	36271 51	46771 89
papers	citations	h-index	g-index

283	283	283	13941
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Precise Correction of the Dystrophin Gene in Duchenne Muscular Dystrophy Patient Induced Pluripotent Stem Cells by TALEN and CRISPR-Cas9. Stem Cell Reports, 2015, 4, 143-154.	2.3	459
2	Robust InÂVitro Induction of Human Germ Cell Fate from Pluripotent Stem Cells. Cell Stem Cell, 2015, 17, 178-194.	5.2	428
3	Microhomology-mediated end-joining-dependent integration of donor DNA in cells and animals using TALENs and CRISPR/Cas9. Nature Communications, 2014, 5, 5560.	5.8	414
4	Multiplex genome engineering in human cells using all-in-one CRISPR/Cas9 vector system. Scientific Reports, 2014, 4, 5400.	1.6	318
5	MMEJ-assisted gene knock-in using TALENs and CRISPR-Cas9 with the PITCh systems. Nature Protocols, 2016, 11, 118-133.	5.5	315
6	SREBPs suppress IRS-2-mediated insulin signalling in the liver. Nature Cell Biology, 2004, 6, 351-357.	4.6	305
7	Cloning-free CRISPR/Cas system facilitates functional cassette knock-in in mice. Genome Biology, 2015, 16, 87.	3.8	250
8	Precise in-frame integration of exogenous DNA mediated by CRISPR/Cas9 system in zebrafish. Scientific Reports, 2015, 5, 8841.	1.6	207
9	Sterol Side Chain Reductase 2 Is a Key Enzyme in the Biosynthesis of Cholesterol, the Common Precursor of Toxic Steroidal Glycoalkaloids in Potato Â. Plant Cell, 2014, 26, 3763-3774.	3.1	206
10	Repeating pattern of non-RVD variations in DNA-binding modules enhances TALEN activity. Scientific Reports, 2013, 3, 3379.	1.6	195
11	Efficient <scp>TALEN</scp> construction and evaluation methods for human cell and animal applications. Genes To Cells, 2013, 18, 315-326.	0.5	190
12	Human Induced Pluripotent Stem Cellâ€“Derived Podocytes Mature into Vascularized Glomeruli upon Experimental Transplantation. Journal of the American Society of Nephrology: JASN, 2016, 27, 1778-1791.	3.0	186
13	Simple knockout by electroporation of engineered endonucleases into intact rat embryos. Scientific Reports, 2014, 4, 6382.	1.6	179
14	TFE3 transcriptionally activates hepatic IRS-2, participates in insulin signaling and ameliorates diabetes. Nature Medicine, 2006, 12, 107-113.	15.2	168
15	Generation of a Nonhuman Primate Model of Severe Combined Immunodeficiency Using Highly Efficient Genome Editing. Cell Stem Cell, 2016, 19, 127-138.	5.2	139
16	SREBP-1 Interacts with Hepatocyte Nuclear Factor-4Î± and Interferes with PGC-1 Recruitment to Suppress Hepatic Gluconeogenic Genes. Journal of Biological Chemistry, 2004, 279, 12027-12035.	1.6	134
17	EDEM2 initiates mammalian glycoprotein ERAD by catalyzing the first mannose trimming step. Journal of Cell Biology, 2014, 206, 347-356.	2.3	131
18	The Microtubule-Depolymerizing Activity of a Mitotic Kinesin Protein KIF2A Drives Primary Cilia Disassembly Coupled with Cell Proliferation. Cell Reports, 2015, 10, 664-673.	2.9	128

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19	CRISPR-Cas3 induces broad and unidirectional genome editing in human cells. Nature Communications, 2019, 10, 5302.	5.8	127
20	Sexually dimorphic expression of a teleost homologue of MÃ¼llerian inhibiting substance during gonadal sex differentiation in Japanese flounder, Paralichthys olivaceus. Biochemical and Biophysical Research Communications, 2004, 322, 508-513.	1.0	124
21	Polyunsaturated Fatty Acids Selectively Suppress Sterol Regulatory Element-binding Protein-1 through Proteolytic Processing and Autoloop Regulatory Circuit. Journal of Biological Chemistry, 2010, 285, 11681-11691.	1.6	120
22	Non-transgenic genome modifications in a hemimetabolous insect using zinc-finger and TAL effector nucleases. Nature Communications, 2012, 3, 1017.	5.8	115
23	Organoids from Nephrotic Disease-Derived iPSCs Identify Impaired NEPHRIN Localization and Slit Diaphragm Formation in Kidney Podocytes. Stem Cell Reports, 2018, 11, 727-740.	2.3	113
24	Single-Molecule Nanoscopy Elucidates RNA Polymerase II Transcription at Single Genes in Live Cells. Cell, 2019, 178, 491-506.e28.	13.5	113
25	Prognostic value of the atrial systolic mitral annular motion velocity in patients with left ventricular systolic dysfunction. Journal of the American Society of Echocardiography, 2003, 16, 333-339.	1.2	104
26	Efficient Targeted Mutagenesis in Medaka Using Custom-Designed Transcription Activator-Like Effector Nucleases. Genetics, 2013, 193, 739-749.	1.2	102
27	Stochastic promoter activation affects Nanog expression variability in mouse embryonic stem cells. Scientific Reports, 2014, 4, 7125.	1.6	97
28	Scleraxis is a transcriptional activator that regulates the expression of Tenomodulin, a marker of mature tenocytes and ligamentocytes. Scientific Reports, 2018, 8, 3155.	1.6	95
29	KLF15 Enables Rapid Switching between Lipogenesis and Gluconeogenesis during Fasting. Cell Reports, 2016, 16, 2373-2386.	2.9	94
30	Protein Kinase A Suppresses Sterol Regulatory Element-binding Protein-1C Expression via Phosphorylation of Liver X Receptor in the Liver. Journal of Biological Chemistry, 2007, 282, 11687-11695.	1.6	93
31	Simultaneous live imaging of the transcription and nuclear position of specific genes. Nucleic Acids Research, 2015, 43, e127-e127.	6.5	89
32	C-Type Lectin Receptor DCAR Recognizes Mycobacterial Phosphatidyl-Inositol Mannosides to Promote a Th1 Response during Infection. Immunity, 2016, 45, 1245-1257.	6.6	80
33	Cas9, Cpf1 and C2c1/2/3â€•What's next?. Bioengineered, 2017, 8, 265-273.	1.4	80
34	Highly efficient biallelic genome editing of human ES/iPS cells using a CRISPR/Cas9 or TALEN system. Nucleic Acids Research, 2017, 45, 5198-5207.	6.5	80
35	Single-gene imaging links genome topology, promoterâ€“enhancer communication and transcription control. Nature Structural and Molecular Biology, 2020, 27, 1032-1040.	3.6	80
36	Unliganded Thyroid Hormone Receptor Î± Regulates Developmental Timing via Gene Repression in Xenopus tropicalis. Endocrinology, 2015, 156, 735-744.	1.4	78

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37	Systematic Cellular Disease Models Reveal Synergistic Interaction of Trisomy 21 and GATA1 Mutations in Hematopoietic Abnormalities. Cell Reports, 2016, 15, 1228-1241.	2.9	78
38	Depdc5 knockout rat: A novel model of mTORopathy. Neurobiology of Disease, 2016, 89, 180-189.	2.1	78
39	Efficient gene targeting by TAL effector nucleases coinjected with exonucleases in zygotes. Scientific Reports, 2013, 3, 1253.	1.6	76
40	Homologous Recombination-Independent Large Gene Cassette Knock-in in CHO Cells Using TALEN and MMEJ-Directed Donor Plasmids. International Journal of Molecular Sciences, 2015, 16, 23849-23866.	1.8	76
41	Targeted mutagenesis in the sea urchin embryo using zincâ€finger nucleases. Genes To Cells, 2010, 15, 875-885.	0.5	75
42	High efficiency TALENs enable F0 functional analysis by targeted gene disruption in Xenopus laevis embryos. Biology Open, 2013, 2, 448-452.	0.6	74
43	Establishment of InÂVitro FUS-Associated Familial Amyotrophic Lateral Sclerosis Model Using Human Induced Pluripotent Stem Cells. Stem Cell Reports, 2016, 6, 496-510.	2.3	74
44	Production of Sry knockout mouse using TALEN via oocyte injection. Scientific Reports, 2013, 3, 3136.	1.6	72
45	Tissue-specific and ubiquitous gene knockouts by TALEN electroporation provide new approaches to investigating gene function in Ciona. Development (Cambridge), 2014, 141, 481-487.	1.2	70
46	Replication stress induces accumulation of FANCD2 at central region of large fragile genes. Nucleic Acids Research, 2018, 46, 2932-2944.	6.5	70
47	Gene cassette knock-in in mammalian cells and zygotes by enhanced MMEJ. BMC Genomics, 2016, 17, 979.	1.2	66
48	Genome-wide kinetic properties of transcriptional bursting in mouse embryonic stem cells. Science Advances, 2020, 6, eaaz6699.	4.7	66
49	Genome Editing in Mouse Spermatogonial Stem Cell Lines Using TALEN and Double-Nicking CRISPR/Cas9. Stem Cell Reports, 2015, 5, 75-82.	2.3	65
50	Highly efficient targeted mutagenesis in one-cell mouse embryos mediated by the TALEN and CRISPR/Cas systems. Scientific Reports, 2015, 4, 5705.	1.6	64
51	T-brainhomologue (HpTb) is involved in the archenteron induction signals of micromere descendant cells in the sea urchin embryo. Development (Cambridge), 2002, 129, 5205-5216.	1.2	60
52	RSF Governs Silent Chromatin Formation via Histone H2Av Replacement. PLoS Genetics, 2008, 4, e1000011.	1.5	58
53	Highly multiplexed CRISPRâ€Cas9â€nuclease and Cas9â€nickase vectors for inactivation of hepatitis B virus. Genes To Cells, 2016, 21, 1253-1262.	0.5	55
54	Efficient modification of the myostatin gene in porcine somatic cells and generation of knockout piglets. Molecular Reproduction and Development, 2016, 83, 61-70.	1.0	53

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55	TALEN-mediated single-base-pair editing identification of an intergenic mutation upstream of BUB1B as causative of PCS (MVA) syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1461-1466.	3.3	52
56	Microhomology-assisted scarless genome editing in human iPSCs. Nature Communications, 2018, 9, 939.	5.8	52
57	Functional Investigation of a Non-coding Variant Associated with Adolescent Idiopathic Scoliosis in Zebrafish: Elevated Expression of the Ladybird Homeobox Gene Causes Body Axis Deformation. PLoS Genetics, 2016, 12, e1005802.	1.5	51
58	A High Excision Potential of TALENs for Integrated DNA of HIV-Based Lentiviral Vector. PLoS ONE, 2015, 10, e0120047.	1.1	48
59	Relative contribution of four nucleases, CtIP, Dna2, Exo1 and Mre11, to the initial step of DNA doubleâ€strand break repair by homologous recombination in both the chicken DT40 and human TK6 cell lines. Genes To Cells, 2015, 20, 1059-1076.	0.5	46
60	Production of knockout mice by DNA microinjection of various CRISPR/Cas9 vectors into freeze-thawed fertilized oocytes. BMC Biotechnology, 2015, 15, 33.	1.7	45
61	Smarcal1 promotes double-strand-break repair by nonhomologous end-joining. Nucleic Acids Research, 2015, 43, 6359-6372.	6.5	42
62	Generation of mutant mice via the CRISPR/Cas9 system using FokI-dCas9. Scientific Reports, 2015, 5, 11221.	1.6	41
63	Zinc-finger nuclease-mediated targeted insertion of reporter genes for quantitative imaging of gene expression in sea urchin embryos. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10915-10920.	3.3	40
64	Targeted gene correction of RUNX1 in induced pluripotent stem cells derived from familial platelet disorder with propensity to myeloid malignancy restores normal megakaryopoiesis. Experimental Hematology, 2015, 43, 849-857.	0.2	40
65	Functional analysis of thyroid hormone receptor beta in Xenopus tropicalis founders using CRISPR-Cas. Biology Open, 2018, 7, .	0.6	40
66	Follicle-Stimulating Hormone Is Indispensable for the Last Spermatogonial Mitosis Preceding Meiosis Initiation in Newts (Cynops pyrrhogaster)1. Biology of Reproduction, 2002, 66, 14-20.	1.2	39
67	Efficient targeted mutagenesis of the chordate <scp>C</scp>iona intestinalis genome with zincâ€finger nucleases. Development Growth and Differentiation, 2012, 54, 535-545.	0.6	39
68	Forcible destruction of severely misfolded mammalian glycoproteins by the non-glycoprotein ERAD pathway. Journal of Cell Biology, 2015, 211, 775-784.	2.3	39
69	HpBase: A genome database of a sea urchin, Hemicentrotus pulcherrimus. Development Growth and Differentiation, 2018, 60, 174-182.	0.6	39
70	Transcription activatorâ€like effector nucleases efficiently disrupt the target gene in Iberian ribbed newts (<scp>P</scp>leurodeles waltl), an experimental model animal for regeneration. Development Growth and Differentiation, 2014, 56, 115-121.	0.6	38
71	Mesp quadruple zebrafish mutant reveals different roles of mesp genes in somite segmentation between mouse and zebrafish. Development (Cambridge), 2016, 143, 2842-52.	1.2	37
72	Cas9 ribonucleoprotein complex allows direct and rapid analysis of coding and noncoding regions of target genes in Pleurodeles waltl development and regeneration. Developmental Biology, 2018, 443, 127-136.	0.9	37

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73	Quantitative assay for TALEN activity at endogenous genomic loci. Biology Open, 2013, 2, 363-367.	0.6	36
74	Tailorâ€made TALEN system for highly efficient targeted gene replacement in the rice blast fungus. Biotechnology and Bioengineering, 2015, 112, 1335-1342.	1.7	36
75	Insufficiency of ciliary cholesterol in hereditary Zellweger syndrome. EMBO Journal, 2020, 39, e103499.	3.5	35
76	Prolactin Induces Apoptosis in the Penultimate Spermatogonial Stage of the Testes in Japanese Red-Bellied Newt (Cynops pyrrhogaster)1. Endocrinology, 2000, 141, 2027-2032.	1.4	34
77	ALC1/CHD1L, a chromatin-remodeling enzyme, is required for efficient base excision repair. PLoS ONE, 2017, 12, e0188320.	1.1	34
78	HpSulf, a heparan sulfate 6-O-endosulfatase, is involved in the regulation of VEGF signaling during sea urchin development. Mechanisms of Development, 2010, 127, 235-245.	1.7	33
79	Lipopolysaccharide Primes Human Alveolar Macrophages for Enhanced Release of Superoxide Anion and Leukotriene B₄: Self-Limitations of the Priming Response with Protein Synthesis. American Journal of Respiratory Cell and Molecular Biology, 1993, 8, 500-508.	1.4	32
80	Targeted disruption of exogenous <scp>EGFP</scp> gene in medaka using zincâ€finger nucleases. Development Growth and Differentiation, 2012, 54, 546-556.	0.6	32
81	PLK1-mediated phosphorylation of WDR62/MCPH2 ensures proper mitotic spindle orientation. Human Molecular Genetics, 2017, 26, 4429-4440.	1.4	32
82	PAX2 is dispensable for in vitro nephron formation from human induced pluripotent stem cells. Scientific Reports, 2017, 7, 4554.	1.6	32
83	Targeted knock-in of an scFv-Fc antibody gene into the hprt locus of Chinese hamster ovary cells using CRISPR/Cas9 and CRIS-PITCh systems. Journal of Bioscience and Bioengineering, 2018, 125, 599-605.	1.1	32
84	Efficient genome engineering using Platinum TALEN in potato. Plant Biotechnology, 2019, 36, 167-173.	0.5	32
85	EDEM2 stably disulfide-bonded to TXNDC11 catalyzes the first mannose trimming step in mammalian glycoprotein ERAD. ELife, 2020, 9, .	2.8	31
86	Targeted mutagenesis of multiple and paralogous genes in Xenopus laevis using two pairs of transcription activatorâ€like effector nucleases. Development Growth and Differentiation, 2014, 56, 108-114.	0.6	30
87	Establishment of knockout adult sea urchins by using a CRISPRâ€Cas9 system. Development Growth and Differentiation, 2019, 61, 378-388.	0.6	30
88	Structureâ€“activity relationship study, target identification, and pharmacological characterization of a small molecular IL-12/23 inhibitor, APY0201. Bioorganic and Medicinal Chemistry, 2014, 22, 3021-3029.	1.4	29
89	In vivo tracking of histone H3 lysine 9 acetylation in Xenopus laevis during tail regeneration. Genes To Cells, 2016, 21, 358-369.	0.5	29
90	Three-Component Repurposed Technology for Enhanced Expression: Highly Accumulable Transcriptional Activators via Branched Tag Arrays. CRISPR Journal, 2018, 1, 337-347.	1.4	29

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91	Murine neonatal ketogenesis preserves mitochondrial energetics by preventing protein hyperacetylation. Nature Metabolism, 2021, 3, 196-210.	5.1	29
92	Protein kinase Cbeta mediates hepatic induction of sterol-regulatory element binding protein-1c by insulin. Journal of Lipid Research, 2010, 51, 1859-1870.	2.0	28
93	Germ cell mutations of the ascidian Ciona intestinalis with TALE nucleases. Genesis, 2014, 52, 431-439.	0.8	28
94	Screening Methods to Identify TALEN-Mediated Knockout Mice. Experimental Animals, 2014, 63, 79-84.	0.7	28
95	Down syndrome-associated haematopoiesis abnormalities created by chromosome transfer and genome editing technologies. Scientific Reports, 2014, 4, 6136.	1.6	28
96	Hox10-regulated endodermal cell migration is essential for development of the ascidian intestine. Developmental Biology, 2015, 403, 43-56.	0.9	28
97	Ultra-superovulation for the CRISPR-Cas9-mediated production of gene-knockout, single-amino-acid-substituted, and floxed mice. Biology Open, 2016, 5, 1142-1148.	0.6	28
98	Rapid and efficient analysis of gene function using <scp>CRISPR</scp>â€Cas9 in Xenopus tropicalis founders. Genes To Cells, 2016, 21, 755-771.	0.5	28
99	Establishment of expanded and streamlined pipeline of PITCh knock-in â€“ a web-based design tool for MMEJ-mediated gene knock-in, PITCh designer, and the variations of PITCh, PITCh-TG and PITCh-KIKO. Bioengineered, 2017, 8, 302-308.	1.4	28
100	Tailor-made gene silencing of Staphylococcus aureus clinical isolates by CRISPR interference. PLoS ONE, 2018, 13, e0185987.	1.1	28
101	Magic wands of CRISPRâ€"lots of choices for gene knock-in. Cell Biology and Toxicology, 2017, 33, 501-505.	2.4	27
102	Development of an integrated CRISPRi targeting Î"Np63 for treatment of squamous cell carcinoma. Oncotarget, 2018, 9, 29220-29232.	0.8	27
103	DJ-1 is indispensable for the S-nitrosylation of Parkin, which maintains function of mitochondria. Scientific Reports, 2020, 10, 4377.	1.6	27
104	The 3â€²UTR of nanos2 directs enrichment in the germ cell lineage of the sea urchin. Developmental Biology, 2013, 377, 275-283.	0.9	26
105	Raman Spectroscopy Study of Charge Fluctuation in the Spin-Liquid Candidate Îº-(BEDT-TTF)₂Cu₂(CN)₃. Journal of the Physical Society of Japan, 2015, 84, 084711.	0.7	26
106	Detailed analysis of targeted gene mutations caused by the Platinum-Fungal TALENs in Aspergillus oryzae RIB40 strain and a ligD disruptant. Journal of Bioscience and Bioengineering, 2017, 123, 287-293.	1.1	26
107	Humanized UGT2 and CYP3A transchromosomic rats for improved prediction of human drug metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3072-3081.	3.3	26
108	Electroporation-mediated genome editing in vitrified/warmed mouse zygotes created by IVF via ultra-superovulation. Experimental Animals, 2018, 67, 535-543.	0.7	25

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109	Modification of single-nucleotide polymorphism in a fully humanized CYP3A mouse by genome editing technology. Scientific Reports, 2017, 7, 15189.	1.6	24
110	Establishment of homozygous knock-out sea urchins. Current Biology, 2020, 30, R427-R429.	1.8	24
111	Biased genome editing using the local accumulation of DSB repair molecules system. Nature Communications, 2018, 9, 3270.	5.8	23
112	Activin Is Superior to BMP7 for Efficient Maintenance of Human iPSC-Derived Nephron Progenitors. Stem Cell Reports, 2019, 13, 322-337.	2.3	23
113	Differential transactivation of the upstream aggrecan enhancer regulated by PAX1/9 depends on SOX9-driven transactivation. Scientific Reports, 2019, 9, 4605.	1.6	23
114	Loss of HCN1 subunits causes absence epilepsy in rats. Brain Research, 2019, 1706, 209-217.	1.1	23
115	Efficient and multiplexable genome editing using Platinum TALENs in oleaginous microalga, Nannochloropsis oceanica NIESâ€2145. Genes To Cells, 2020, 25, 695-702.	0.5	23
116	Cloning and Expression of a cDNA Encoding a Prolactin Receptor of the Japanese Red-Bellied Newt, Cynops pyrrhogaster. Zoological Science, 1998, 15, 741-747.	0.3	22
117	Cloning of a cDNA for Xenopus prolactin receptor and its metamorphic expression profile. Development Growth and Differentiation, 2000, 42, 167-174.	0.6	22
118	Effect of Cilnidipine on Left Ventricular Diastolic Function in Hypertensive Patients as Assessed by Pulsed Doppler Echocardiography and Pulsed Tissue Doppler Imaging. Japanese Circulation Journal, 2001, 65, 305-309.	1.0	22
119	Abnormal spermatogenesis at low temperatures in the Japanese red-bellied newt,Cynops pyrrhogaster: Possible biological significance of the cessation of spermatocytogenesis. Molecular Reproduction and Development, 2003, 66, 60-66.	1.0	22
120	Conversion from mitosis to meiosis: Morphology and expression of proliferating cell nuclear antigen (PCNA) and Dmc1 during newt spermatogenesis. Development Growth and Differentiation, 2000, 42, 603-611.	0.6	21
121	Organ-Specific and Age-Dependent Expression of Insulin-like Growth Factor-I (IGF-I) mRNA Variants: IGF-IA and IB mRNAs in the Mouse. Zoological Science, 2005, 22, 1011-1021.	0.3	21
122	Targeted mutagenesis in sea urchin embryos using TALENs. Development Growth and Differentiation, 2014, 56, 92-97.	0.6	21
123	Chemical Mechanism of Homoisocitrate Dehydrogenase fromSaccharomyces cerevisiaeâ€. Biochemistry, 2008, 47, 4169-4180.	1.2	20
124	Role of the nanos homolog during sea urchin development. Developmental Dynamics, 2009, 238, 2511-2521.	0.8	20
125	Transcriptional regulation of a horizontally transferred gene from bacterium to chordate. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20161712.	1.2	20
126	Germ cell regeneration-mediated, enhanced mutagenesis in the ascidian Ciona intestinalis reveals flexible germ cell formation from different somatic cells. Developmental Biology, 2017, 423, 111-125.	0.9	20

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127	Acceleration of cancer science with genome editing and related technologies. Cancer Science, 2018, 109, 3679-3685.	1.7	20
128	Molecular Cloning, Functional Characterization, and Gene Expression of a Follicle-Stimulating Hormone Receptor in the Testis of Newt Cynops pyrrhogaster. Biochemical and Biophysical Research Communications, 2000, 275, 121-128.	1.0	19
129	Analysis of cis-regulatory elements controlling spatio-temporal expression of T-brain gene in sea urchin, Hemicentrotus pulcherrimus. Mechanisms of Development, 2008, 125, 2-17.	1.7	19
130	<scp>TALEN</scp>â€induced gene knock out in <scp>D</scp>rosophila. Development Growth and Differentiation, 2014, 56, 86-91.	0.6	19
131	Desmocollin-2 alone forms functional desmosomal plaques, with the plaque formation requiring the juxtamembrane region and plakophilins. Journal of Biochemistry, 2015, 158, 339-353.	0.9	19
132	Functional consequence of fibulin-4 missense mutations associated with vascular and skeletal abnormalities and cutis laxa. Matrix Biology, 2016, 56, 132-149.	1.5	19
133	GABA-Induced GnRH Release Triggers Chordate Metamorphosis. Current Biology, 2020, 30, 1555-1561.e4.	1.8	19
134	Equarin is involved as an FGF signaling modulator in chick lens differentiation. Developmental Biology, 2012, 368, 109-117.	0.9	18
135	Evaluation of ATM heterozygous mutations underlying individual differences in radiosensitivity using genome editing in human cultured cells. Scientific Reports, 2017, 7, 5996.	1.6	18
136	Mammalian follicle-stimulating hormone and insulin-like growth factor i (IGF-I) up-regulate igf-i gene expression in organ culture of newt testis. Molecular Reproduction and Development, 2001, 60, 56-64.	1.0	17
137	The Importance of Lone Pair Delocalizations: Theoretical Investigations on the Stability of cis and trans Isomers in 1,2-Halodiazenes. Journal of Organic Chemistry, 2008, 73, 5429-5435.	1.7	17
138	Role of dynamic nuclear deformation on genomic architecture reorganization. PLoS Computational Biology, 2019, 15, e1007289.	1.5	17
139	KLF1 mutation E325K induces cell cycle arrest in erythroid cells differentiated from congenital dyserythropoietic anemia patient-specific induced pluripotent stem cells. Experimental Hematology, 2019, 73, 25-37.e8.	0.2	17
140	Participation of androgen and its receptor in sex determination of an amphibian species. PLoS ONE, 2017, 12, e0178067.	1.1	17
141	T-brain homologue (HpTb) is involved in the archenteron induction signals of micromere descendant cells in the sea urchin embryo. Development (Cambridge), 2002, 129, 5205-16.	1.2	17
142	Developmental expression of HpNanos, the Hemicentrotus pulcherrimus homologue of nanos. Gene Expression Patterns, 2006, 6, 572-577.	0.3	16
143	Targeted gene disruption by use of transcription activator-like effector nuclease (TALEN) in the water flea Daphnia pulex. BMC Biotechnology, 2014, 14, 95.	1.7	16
144	Involvement of aspartoacylase in tremor expression in rats. Experimental Animals, 2016, 65, 293-301.	0.7	16

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145	Clustered Xenopus keratin genes: A genomic, transcriptomic, and proteomic analysis. Developmental Biology, 2017, 426, 384-392.	0.9	16
146	Increased seizure sensitivity, emotional defects and cognitive impairment in PHD finger protein 24 (Phf24)-null rats. Behavioural Brain Research, 2019, 369, 111922.	1.2	16
147	The Expression of TALEN before Fertilization Provides a Rapid Knock-Out Phenotype in Xenopus laevis Founder Embryos. PLoS ONE, 2015, 10, e0142946.	1.1	15
148	Hox-mediated endodermal identity patterns the pharyngeal muscle formation in the chordate pharynx. Development (Cambridge), 2017, 144, 1629-1634.	1.2	15
149	Generation of D1-1 TALEN isogenic control cell line from Dravet syndrome patient iPSCs using TALEN-mediated editing of the SCN1A gene. Stem Cell Research, 2018, 28, 100-104.	0.3	15
150	PDIP38/PolDIP2 controls the DNA damage tolerance pathways by increasing the relative usage of translesion DNA synthesis over template switching. PLoS ONE, 2019, 14, e0213383.	1.1	15
151	CRISPR-Cas9 editing of non-coding genomic loci as a means of controlling gene expression in the sea urchin. Developmental Biology, 2021, 472, 85-97.	0.9	15
152	Glutathione depletion as a mechanism of 3,4-dideoxyglucosone-3-ene-induced cytotoxicity in human peritoneal mesothelial cells: role in biocompatibility of peritoneal dialysis fluids. Nephrology Dialysis Transplantation, 2009, 24, 1436-1442.	0.4	14
153	Implication ofHpEtsin Gene Regulatory Networks Responsible for Specification of Sea Urchin Skeletogenic Primary Mesenchyme Cells. Zoological Science, 2010, 27, 638-646.	0.3	14
154	Culture time of vitrified/warmed zygotes before microinjection affects the production efficiency of CRISPR-Cas9-mediated knock-in mice. Biology Open, 2017, 6, 706-713.	0.6	14
155	PLEKHN1 promotes apoptosis by enhancing Bax-Bak hetro-oligomerization through interaction with Bid in human colon cancer. Cell Death Discovery, 2018, 4, 11.	2.0	14
156	Targeted mutagenesis of the ryanodine receptor by Platinum TALENs causes slow swimming behaviour in Pacific bluefin tuna (Thunnus orientalis). Scientific Reports, 2019, 9, 13871.	1.6	14
157	Caspase activity in newt spermatogonial apoptosis induced by prolactin and cycloheximide. Molecular Reproduction and Development, 2001, 59, 209-214.	1.0	13
158	Synergistic Cytotoxicity of Acidity and 3,4-Dideoxyglucosone-3-ene Under the Existence of Lactate in Peritoneal Dialysis Fluid. Therapeutic Apheresis and Dialysis, 2005, 9, 182-187.	0.4	13
159	The Ars insulator facilitates Iâ€ŠceI meganucleaseâ€mediated transgenesis in the sea urchin embryo. Developmental Dynamics, 2008, 237, 2475-2482.	0.8	13
160	Engineering Customized TALENs Using the Platinum Gate TALEN Kit. Methods in Molecular Biology, 2016, 1338, 61-70.	0.4	13
161	Identification of a cell-penetrating peptide applicable to a protein-based transcription activator-like effector expression system for cell engineering. Biomaterials, 2018, 173, 11-21.	5.7	13
162	Three multi-allelic gene pairs are responsible for self-sterility in the ascidian Ciona intestinalis. Scientific Reports, 2020, 10, 2514.	1.6	13

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