

# Tetsushi Sakuma

## List of Publications by Year in descending order

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136  
papers

7,596  
citations

61857

43  
h-index

62479

80  
g-index

137  
all docs

137  
docs citations

137  
times ranked

10116  
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. <i>Stem Cell Reports</i> , 2015, 4, 143-154.	2.3	459
2	Robust In Vitro Induction of Human Germ Cell Fate from Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 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. <i>Nature Communications</i> , 2014, 5, 5560.	5.8	414
4	Multiplex genome engineering in human cells using all-in-one CRISPR/Cas9 vector system. <i>Scientific Reports</i> , 2014, 4, 5400.	1.6	318
5	MMEJ-assisted gene knock-in using TALENs and CRISPR-Cas9 with the PITCH systems. <i>Nature Protocols</i> , 2016, 11, 118-133.	5.5	315
6	Cloning-free CRISPR/Cas system facilitates functional cassette knock-in in mice. <i>Genome Biology</i> , 2015, 16, 87.	3.8	250
7	Precise in-frame integration of exogenous DNA mediated by CRISPR/Cas9 system in zebrafish. <i>Scientific Reports</i> , 2015, 5, 8841.	1.6	207
8	Sterol Side Chain Reductase 2 Is a Key Enzyme in the Biosynthesis of Cholesterol, the Common Precursor of Toxic Steroidal Glycoalkaloids in Potato. <i>Plant Cell</i> , 2014, 26, 3763-3774.	3.1	206
9	Repeating pattern of non-RVD variations in DNA-binding modules enhances TALEN activity. <i>Scientific Reports</i> , 2013, 3, 3379.	1.6	195
10	Efficient TALEN construction and evaluation methods for human cell and animal applications. <i>Genes To Cells</i> , 2013, 18, 315-326.	0.5	190
11	Human Induced Pluripotent Stem Cell-Derived Podocytes Mature into Vascularized Glomeruli upon Experimental Transplantation. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 1778-1791.	3.0	186
12	Simple knockout by electroporation of engineered endonucleases into intact rat embryos. <i>Scientific Reports</i> , 2014, 4, 6382.	1.6	179
13	Generation of a Nonhuman Primate Model of Severe Combined Immunodeficiency Using Highly Efficient Genome Editing. <i>Cell Stem Cell</i> , 2016, 19, 127-138.	5.2	139
14	EDEM2 initiates mammalian glycoprotein ERAD by catalyzing the first mannose trimming step. <i>Journal of Cell Biology</i> , 2014, 206, 347-356.	2.3	131
15	The Microtubule-Depolymerizing Activity of a Mitotic Kinesin Protein KIF2A Drives Primary Cilia Disassembly Coupled with Cell Proliferation. <i>Cell Reports</i> , 2015, 10, 664-673.	2.9	128
16	Non-transgenic genome modifications in a hemimetabolous insect using zinc-finger and TAL effector nucleases. <i>Nature Communications</i> , 2012, 3, 1017.	5.8	115
17	Organoids from Nephrotic Disease-Derived iPSCs Identify Impaired NEPHRIN Localization and Slit Diaphragm Formation in Kidney Podocytes. <i>Stem Cell Reports</i> , 2018, 11, 727-740.	2.3	113
18	Efficient Targeted Mutagenesis in Medaka Using Custom-Designed Transcription Activator-Like Effector Nucleases. <i>Genetics</i> , 2013, 193, 739-749.	1.2	102

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19	Stochastic promoter activation affects Nanog expression variability in mouse embryonic stem cells. <i>Scientific Reports</i> , 2014, 4, 7125.	1.6	97
20	Scleraxis is a transcriptional activator that regulates the expression of Tenomodulin, a marker of mature tenocytes and ligamentocytes. <i>Scientific Reports</i> , 2018, 8, 3155.	1.6	95
21	C-Type Lectin Receptor DCAR Recognizes Mycobacterial Phosphatidyl-Inositol Mannosides to Promote a Th1 Response during Infection. <i>Immunity</i> , 2016, 45, 1245-1257.	6.6	80
22	Cas9, Cpf1 and C2c1/2/3â€•What's next?. <i>Bioengineered</i> , 2017, 8, 265-273.	1.4	80
23	Highly efficient biallelic genome editing of human ES/iPS cells using a CRISPR/Cas9 or TALEN system. <i>Nucleic Acids Research</i> , 2017, 45, 5198-5207.	6.5	80
24	Unliganded Thyroid Hormone Receptor $\hat{\pm}$ Regulates Developmental Timing via Gene Repression in <i>Xenopus tropicalis</i> . <i>Endocrinology</i> , 2015, 156, 735-744.	1.4	78
25	Systematic Cellular Disease Models Reveal Synergistic Interaction of Trisomy 21 and GATA1 Mutations in Hematopoietic Abnormalities. <i>Cell Reports</i> , 2016, 15, 1228-1241.	2.9	78
26	Depdc5 knockout rat: A novel model of mTORopathy. <i>Neurobiology of Disease</i> , 2016, 89, 180-189.	2.1	78
27	Efficient gene targeting by TAL effector nucleases coinjected with exonucleases in zygotes. <i>Scientific Reports</i> , 2013, 3, 1253.	1.6	76
28	Homologous Recombination-Independent Large Gene Cassette Knock-in in CHO Cells Using TALEN and MMEJ-Directed Donor Plasmids. <i>International Journal of Molecular Sciences</i> , 2015, 16, 23849-23866.	1.8	76
29	Targeted mutagenesis in the sea urchin embryo using zincâ€•finger nucleases. <i>Genes To Cells</i> , 2010, 15, 875-885.	0.5	75
30	High efficiency TALENs enable FO functional analysis by targeted gene disruption in <i>Xenopus laevis</i> embryos. <i>Biology Open</i> , 2013, 2, 448-452.	0.6	74
31	Establishment of InÂ•Vitro FUS-Associated Familial Amyotrophic Lateral Sclerosis Model Using Human Induced Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2016, 6, 496-510.	2.3	74
32	Production of Sry knockout mouse using TALEN via oocyte injection. <i>Scientific Reports</i> , 2013, 3, 3136.	1.6	72
33	Tissue-specific and ubiquitous gene knockouts by TALEN electroporation provide new approaches to investigating gene function in <i>Ciona</i> . <i>Development (Cambridge)</i> , 2014, 141, 481-487.	1.2	70
34	Gene cassette knock-in in mammalian cells and zygotes by enhanced MMEJ. <i>BMC Genomics</i> , 2016, 17, 979.	1.2	66
35	Genome Editing in Mouse Spermatogonial Stem Cell Lines Using TALEN and Double-Nicking CRISPR/Cas9. <i>Stem Cell Reports</i> , 2015, 5, 75-82.	2.3	65
36	Highly efficient targeted mutagenesis in one-cell mouse embryos mediated by the TALEN and CRISPR/Cas systems. <i>Scientific Reports</i> , 2015, 4, 5705.	1.6	64

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37	Nuclease-mediated genome editing: At the front-line of functional genomics technology. <i>Development Growth and Differentiation</i> , 2014, 56, 2-13.	0.6	60
38	Highly multiplexed CRISPR-Cas9 nuclease and Cas9 nickase vectors for inactivation of hepatitis B virus. <i>Genes To Cells</i> , 2016, 21, 1253-1262.	0.5	55
39	Efficient modification of the myostatin gene in porcine somatic cells and generation of knockout piglets. <i>Molecular Reproduction and Development</i> , 2016, 83, 61-70.	1.0	53
40	TALEN-mediated single-base-pair editing identification of an intergenic mutation upstream of <i>BUB1B</i> as causative of PCS (MVA) syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1461-1466.	3.3	52
41	Microhomology-assisted scarless genome editing in human iPSCs. <i>Nature Communications</i> , 2018, 9, 939.	5.8	52
42	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. <i>PLoS Genetics</i> , 2016, 12, e1005802.	1.5	51
43	A High Excision Potential of TALENs for Integrated DNA of HIV-Based Lentiviral Vector. <i>PLoS ONE</i> , 2015, 10, e0120047.	1.1	48
44	Relative contribution of four nucleases, CtIP, Dna2, Exo1 and Mre11, to the initial step of DNA double-strand break repair by homologous recombination in both the chicken DT40 and human TK6 cell lines. <i>Genes To Cells</i> , 2015, 20, 1059-1076.	0.5	46
45	Production of knockout mice by DNA microinjection of various CRISPR/Cas9 vectors into freeze-thawed fertilized oocytes. <i>BMC Biotechnology</i> , 2015, 15, 33.	1.7	45
46	Smarcal1 promotes double-strand-break repair by nonhomologous end-joining. <i>Nucleic Acids Research</i> , 2015, 43, 6359-6372.	6.5	42
47	ARHGAP10, which encodes Rho GTPase-activating protein 10, is a novel gene for schizophrenia risk. <i>Translational Psychiatry</i> , 2020, 10, 247.	2.4	42
48	Generation of mutant mice via the CRISPR/Cas9 system using FokI-dCas9. <i>Scientific Reports</i> , 2015, 5, 11221.	1.6	41
49	Zinc-finger nuclease-mediated targeted insertion of reporter genes for quantitative imaging of gene expression in sea urchin embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10915-10920.	3.3	40
50	Efficient targeted mutagenesis of the chordate <i>Ciona intestinalis</i> genome with zinc-finger nucleases. <i>Development Growth and Differentiation</i> , 2012, 54, 535-545.	0.6	39
51	Transcription activator-like effector nucleases efficiently disrupt the target gene in Iberian ribbed newts ( <i>Pleurodeles waltl</i> ), an experimental model animal for regeneration. <i>Development Growth and Differentiation</i> , 2014, 56, 115-121.	0.6	38
52	Quantitative assay for TALEN activity at endogenous genomic loci. <i>Biology Open</i> , 2013, 2, 363-367.	0.6	36
53	Tailor-made TALEN system for highly efficient targeted gene replacement in the rice blast fungus. <i>Biotechnology and Bioengineering</i> , 2015, 112, 1335-1342.	1.7	36
54	ALC1/CHD1L, a chromatin-remodeling enzyme, is required for efficient base excision repair. <i>PLoS ONE</i> , 2017, 12, e0188320.	1.1	34

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55	PAX2 is dispensable for in vitro nephron formation from human induced pluripotent stem cells. <i>Scientific Reports</i> , 2017, 7, 4554.	1.6	32
56	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. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 599-605.	1.1	32
57	Efficient genome engineering using Platinum TALEN in potato. <i>Plant Biotechnology</i> , 2019, 36, 167-173.	0.5	32
58	EDEM2 stably disulfide-bonded to TXNDC11 catalyzes the first mannose trimming step in mammalian glycoprotein ERAD. <i>ELife</i> , 2020, 9, .	2.8	31
59	Targeted mutagenesis of multiple and paralogous genes in <i>Xenopus laevis</i> using two pairs of transcription activator-like effector nucleases. <i>Development Growth and Differentiation</i> , 2014, 56, 108-114.	0.6	30
60	Establishment of knockout adult sea urchins by using a CRISPR-Cas9 system. <i>Development Growth and Differentiation</i> , 2019, 61, 378-388.	0.6	30
61	<i>In vivo</i> tracking of histone H3 lysine 9 acetylation in <i>Xenopus laevis</i> during tail regeneration. <i>Genes To Cells</i> , 2016, 21, 358-369.	0.5	29
62	Murine neonatal ketogenesis preserves mitochondrial energetics by preventing protein hyperacetylation. <i>Nature Metabolism</i> , 2021, 3, 196-210.	5.1	29
63	Germ cell mutations of the ascidian <i>Ciona intestinalis</i> with TALE nucleases. <i>Genesis</i> , 2014, 52, 431-439.	0.8	28
64	Screening Methods to Identify TALEN-Mediated Knockout Mice. <i>Experimental Animals</i> , 2014, 63, 79-84.	0.7	28
65	Down syndrome-associated haematopoiesis abnormalities created by chromosome transfer and genome editing technologies. <i>Scientific Reports</i> , 2014, 4, 6136.	1.6	28
66	Hox10-regulated endodermal cell migration is essential for development of the ascidian intestine. <i>Developmental Biology</i> , 2015, 403, 43-56.	0.9	28
67	Ultra-superovulation for the CRISPR-Cas9-mediated production of gene-knockout, single-amino-acid-substituted, and floxed mice. <i>Biology Open</i> , 2016, 5, 1142-1148.	0.6	28
68	Establishment of expanded and streamlined pipeline of PITCh knock-in – a web-based design tool for MMEJ-mediated gene knock-in, PITCh designer, and the variations of PITCh, PITCh-TG and PITCh-KIKO. <i>Bioengineered</i> , 2017, 8, 302-308.	1.4	28
69	Tailor-made gene silencing of <i>Staphylococcus aureus</i> clinical isolates by CRISPR interference. <i>PLoS ONE</i> , 2018, 13, e0185987.	1.1	28
70	Magic wands of CRISPR – lots of choices for gene knock-in. <i>Cell Biology and Toxicology</i> , 2017, 33, 501-505.	2.4	27
71	DJ-1 is indispensable for the S-nitrosylation of Parkin, which maintains function of mitochondria. <i>Scientific Reports</i> , 2020, 10, 4377.	1.6	27
72	The 3'UTR of nanos2 directs enrichment in the germ cell lineage of the sea urchin. <i>Developmental Biology</i> , 2013, 377, 275-283.	0.9	26

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73	Detailed analysis of targeted gene mutations caused by the Platinum-Fungal TALENs in <i>Aspergillus oryzae</i> RIB40 strain and a <i>ligD</i> disruptant. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 287-293.	1.1	26
74	Humanized UGT2 and CYP3A transchromosomal rats for improved prediction of human drug metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3072-3081.	3.3	26
75	Electroporation-mediated genome editing in vitrified/warmed mouse zygotes created by IVF via ultra-superovulation. <i>Experimental Animals</i> , 2018, 67, 535-543.	0.7	25
76	Modification of single-nucleotide polymorphism in a fully humanized CYP3A mouse by genome editing technology. <i>Scientific Reports</i> , 2017, 7, 15189.	1.6	24
77	Biased genome editing using the local accumulation of DSB repair molecules system. <i>Nature Communications</i> , 2018, 9, 3270.	5.8	23
78	Activin Is Superior to BMP7 for Efficient Maintenance of Human iPSC-Derived Nephron Progenitors. <i>Stem Cell Reports</i> , 2019, 13, 322-337.	2.3	23
79	Differential transactivation of the upstream aggrecan enhancer regulated by PAX1/9 depends on SOX9-driven transactivation. <i>Scientific Reports</i> , 2019, 9, 4605.	1.6	23
80	Loss of HCN1 subunits causes absence epilepsy in rats. <i>Brain Research</i> , 2019, 1706, 209-217.	1.1	23
81	Efficient and multiplexable genome editing using Platinum TALENs in oleaginous microalga, <i>Nannochloropsis oceanica</i> . <i>Genes To Cells</i> , 2020, 25, 695-702.	0.5	23
82	Targeted mutagenesis in sea urchin embryos using TALENs. <i>Development Growth and Differentiation</i> , 2014, 56, 92-97.	0.6	21
83	Transcriptional regulation of a horizontally transferred gene from bacterium to chordate. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161712.	1.2	20
84	Germ cell regeneration-mediated, enhanced mutagenesis in the ascidian <i>Ciona intestinalis</i> reveals flexible germ cell formation from different somatic cells. <i>Developmental Biology</i> , 2017, 423, 111-125.	0.9	20
85	Acceleration of cancer science with genome editing and related technologies. <i>Cancer Science</i> , 2018, 109, 3679-3685.	1.7	20
86	TALEN-induced gene knock out in <i>Drosophila</i> . <i>Development Growth and Differentiation</i> , 2014, 56, 86-91.	0.6	19
87	Desmocollin-2 alone forms functional desmosomal plaques, with the plaque formation requiring the juxtamembrane region and plakophilins. <i>Journal of Biochemistry</i> , 2015, 158, 339-353.	0.9	19
88	Functional consequence of fibulin-4 missense mutations associated with vascular and skeletal abnormalities and cutis laxa. <i>Matrix Biology</i> , 2016, 56, 132-149.	1.5	19
89	GABA-Induced GnRH Release Triggers Chordate Metamorphosis. <i>Current Biology</i> , 2020, 30, 1555-1561.e4.	1.8	19
90	The third type III module of human fibronectin mediates cell adhesion and migration. <i>Journal of Biochemistry</i> , 2010, 147, 327-335.	0.9	18

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91	KLF1 mutation E325K induces cell cycle arrest in erythroid cells differentiated from congenital dyserythropoietic anemia patient-specific induced pluripotent stem cells. <i>Experimental Hematology</i> , 2019, 73, 25-37.e8.	0.2	17
92	Targeted gene disruption by use of transcription activator-like effector nuclease (TALEN) in the water flea <i>Daphnia pulex</i> . <i>BMC Biotechnology</i> , 2014, 14, 95.	1.7	16
93	Involvement of aspartoacylase in tremor expression in rats. <i>Experimental Animals</i> , 2016, 65, 293-301.	0.7	16
94	The Expression of TALEN before Fertilization Provides a Rapid Knock-Out Phenotype in <i>Xenopus laevis</i> Founder Embryos. <i>PLoS ONE</i> , 2015, 10, e0142946.	1.1	15
95	Hox-mediated endodermal identity patterns the pharyngeal muscle formation in the chordate pharynx. <i>Development (Cambridge)</i> , 2017, 144, 1629-1634.	1.2	15
96	Generation of D1-1 TALEN isogenic control cell line from Dravet syndrome patient iPSCs using TALEN-mediated editing of the SCN1A gene. <i>Stem Cell Research</i> , 2018, 28, 100-104.	0.3	15
97	PDIP38/PolDIP2 controls the DNA damage tolerance pathways by increasing the relative usage of translesion DNA synthesis over template switching. <i>PLoS ONE</i> , 2019, 14, e0213383.	1.1	15
98	Culture time of vitrified/warmed zygotes before microinjection affects the production efficiency of CRISPR-Cas9-mediated knock-in mice. <i>Biology Open</i> , 2017, 6, 706-713.	0.6	14
99	PLEKHN1 promotes apoptosis by enhancing Bax-Bak hetero-oligomerization through interaction with Bid in human colon cancer. <i>Cell Death Discovery</i> , 2018, 4, 11.	2.0	14
100	Targeted mutagenesis of the ryanodine receptor by Platinum TALENs causes slow swimming behaviour in Pacific bluefin tuna ( <i>Thunnus orientalis</i> ). <i>Scientific Reports</i> , 2019, 9, 13871.	1.6	14
101	Engineering Customized TALENs Using the Platinum Gate TALEN Kit. <i>Methods in Molecular Biology</i> , 2016, 1338, 61-70.	0.4	13
102	Identification of a cell-penetrating peptide applicable to a protein-based transcription activator-like effector expression system for cell engineering. <i>Biomaterials</i> , 2018, 173, 11-21.	5.7	13
103	Three multi-allelic gene pairs are responsible for self-sterility in the ascidian <i>Ciona intestinalis</i> . <i>Scientific Reports</i> , 2020, 10, 2514.	1.6	13
104	Versatile strategy for isolating transcription activator-like effector nuclease-mediated knockout mutants in <i>Caenorhabditis elegans</i> . <i>Development Growth and Differentiation</i> , 2014, 56, 78-85.	0.6	12
105	Application of Oocyte Cryopreservation Technology in TALEN-Mediated Mouse Genome Editing. <i>Experimental Animals</i> , 2014, 63, 349-355.	0.7	12
106	All-in-One CRISPR-Cas9/FokI-dCas9 Vector-Mediated Multiplex Genome Engineering in Cultured Cells. <i>Methods in Molecular Biology</i> , 2017, 1498, 41-56.	0.4	12
107	Establishment of Functional Genomics Pipeline in Mouse Epiblast-Like Tissue by Combining Transcriptomic Analysis and Gene Knockdown/Knockin/Knockout, Using RNA Interference and CRISPR/Cas9. <i>Human Gene Therapy</i> , 2016, 27, 436-450.	1.4	11
108	Generation of and characterization of anti-IL-11 antibodies using newly established Il11-deficient mice. <i>Biochemical and Biophysical Research Communications</i> , 2018, 505, 453-459.	1.0	11

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109	Reinvestigation of Disulfide-bonded Oligomeric Forms of the Unfolded Protein Response Transducer ATF6. <i>Cell Structure and Function</i> , 2020, 45, 9-21.	0.5	11
110	Regenerating islet-derived protein (Reg)3Î² plays a crucial role in attenuation of ileitis and colitis in mice. <i>Biochemistry and Biophysics Reports</i> , 2020, 21, 100738.	0.7	11
111	Enhancer activity sensitive to the orientation of the gene it regulates in the chordate genome. <i>Developmental Biology</i> , 2013, 375, 79-91.	0.9	10
112	Cancer induction and suppression with transcriptional control and epigenome editing technologies. <i>Journal of Human Genetics</i> , 2018, 63, 187-194.	1.1	10
113	Differential micronucleus frequency in isogenic human cells deficient in DNA repair pathways is a valuable indicator for evaluating genotoxic agents and their genotoxic mechanisms. <i>Environmental and Molecular Mutagenesis</i> , 2018, 59, 529-538.	0.9	10
114	Anephrogenic phenotype induced by SALL1 gene knockout in pigs. <i>Scientific Reports</i> , 2019, 9, 8016.	1.6	10
115	Current Overview of TALEN Construction Systems. <i>Methods in Molecular Biology</i> , 2017, 1630, 25-36.	0.4	10
116	Non-RVD mutations that enhance the dynamics of the TAL repeat array along the superhelical axis improve TALEN genome editing efficacy. <i>Scientific Reports</i> , 2016, 6, 37887.	1.6	9
117	TAp63 represses transcription of MYCN/NCYM gene and its high levels of expression are associated with favorable outcome in neuroblastoma. <i>Biochemical and Biophysical Research Communications</i> , 2019, 518, 311-318.	1.0	9
118	Pathological characteristics of <i>Ccdc85</i> knockout rats: a rat model of genetic hydrocephalus. <i>Experimental Animals</i> , 2020, 69, 26-33.	0.7	9
119	TALEN-Mediated Gene Editing of slc24a5 (Solute Carrier Family 24, Member 5) in Kawakawa, <i>Euthynnus affinis</i> . <i>Journal of Marine Science and Engineering</i> , 2021, 9, 1378.	1.2	8
120	Single-Cell-State Culture of Human Pluripotent Stem Cells Increases Transfection Efficiency. <i>BioResearch Open Access</i> , 2016, 5, 127-136.	2.6	7
121	Unexpected heterogeneity derived from Cas9 ribonucleoproteinâ€ introduced clonal cells at the <i>HPRT</i> locus. <i>Genes To Cells</i> , 2018, 23, 255-263.	0.5	7
122	MET Activation by a Macrocyclic Peptide Agonist that Couples to Biological Responses Differently from HGF in a Context-Dependent Manner. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3141.	1.8	6
123	Development of a protein-based system for transient epigenetic repression of immune checkpoint molecule and enhancement of antitumour activity of natural killer cells. <i>British Journal of Cancer</i> , 2020, 122, 823-834.	2.9	6
124	Epithelial DLD-1 Cells with Disrupted E-cadherin Gene Retain the Ability to Form Cell Junctions and Apico-basal Polarity. <i>Cell Structure and Function</i> , 2015, 40, 79-94.	0.5	5
125	Homeolog-specific targeted mutagenesis in <i>Xenopus laevis</i> using TALENs. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2015, 51, 879-884.	0.7	5
126	Hox13 is essential for formation of a sensory organ at the terminal end of the sperm duct in <i>Ciona</i> . <i>Developmental Biology</i> , 2020, 458, 120-131.	0.9	5



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127	Various strategies of effector accumulation to improve the efficiency of genome editing and derivative methodologies. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2020, 56, 359-366.	0.7	5
128	FAST&CRISPR system for enrichment of cells with TALEN-induced mutations and large deletions. <i>Genes To Cells</i> , 2014, 19, 419-431.	0.5	4
129	Nucleotide receptor P2RY4 is required for head formation via induction and maintenance of head organizer in <i>Xenopus laevis</i> . <i>Development Growth and Differentiation</i> , 2019, 61, 186-197.	0.6	4
130	Temporal effects of Notch signaling and potential cooperation with multiple downstream effectors on adeno-hypophysis cell specification in zebrafish. <i>Genes To Cells</i> , 2016, 21, 492-504.	0.5	3
131	Establishment of pten knockout medaka with transcription activator-like effector nucleases (TALENs) as a model of PTEN deficiency disease. <i>PLoS ONE</i> , 2017, 12, e0186878.	1.1	3
132	HpSumf1 is involved in the activation of sulfatases responsible for regulation of skeletogenesis during sea urchin development. <i>Development Genes and Evolution</i> , 2011, 221, 157-166.	0.4	2
133	TALEN-mediated targeted editing of the GDE5 gene suppresses fibroblastic cell proliferation. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 2164-2167.	0.6	1
134	Genetic Tools for Self-Organizing Culture of Mouse Embryonic Stem Cells via Small Regulatory RNA-Mediated Technologies, CRISPR/Cas9, and Inducible RNAi. <i>Methods in Molecular Biology</i> , 2017, 1622, 269-292.	0.4	1
135	Six1 is required for signaling center formation and labial-lingual asymmetry in developing lower incisors. <i>Developmental Dynamics</i> , 2020, 249, 1098-1116.	0.8	1
136	Genome editing for dissecting and curing human genetic diseases. <i>Journal of Human Genetics</i> , 2018, 63, 105-105.	1.1	0