

# Takashi Yamamoto

## List of Publications by Citations

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263  
papers

8,078  
citations

49  
h-index

80  
g-index

282  
ext. papers

9,648  
ext. citations

5.1  
avg. IF

5.92  
L-index

#	Paper	IF	Citations
263	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> , <b>2015</b> , 4, 143-154	8	388
262	Microhomology-mediated end-joining-dependent integration of donor DNA in cells and animals using TALENs and CRISPR/Cas9. <i>Nature Communications</i> , <b>2014</b> , 5, 5560	17.4	323
261	Robust In Vitro Induction of Human Germ Cell Fate from Pluripotent Stem Cells. <i>Cell Stem Cell</i> , <b>2015</b> , 17, 178-94	18	276
260	SREBPs suppress IRS-2-mediated insulin signalling in the liver. <i>Nature Cell Biology</i> , <b>2004</b> , 6, 351-7	23.4	260
259	Multiplex genome engineering in human cells using all-in-one CRISPR/Cas9 vector system. <i>Scientific Reports</i> , <b>2014</b> , 4, 5400	4.9	253
258	MMEJ-assisted gene knock-in using TALENs and CRISPR-Cas9 with the PITCh systems. <i>Nature Protocols</i> , <b>2016</b> , 11, 118-33	18.8	217
257	Cloning-free CRISPR/Cas system facilitates functional cassette knock-in in mice. <i>Genome Biology</i> , <b>2015</b> , 16, 87	18.3	197
256	Efficient TALEN construction and evaluation methods for human cell and animal applications. <i>Genes To Cells</i> , <b>2013</b> , 18, 315-26	2.3	171
255	Precise in-frame integration of exogenous DNA mediated by CRISPR/Cas9 system in zebrafish. <i>Scientific Reports</i> , <b>2015</b> , 5, 8841	4.9	167
254	Repeating pattern of non-RVD variations in DNA-binding modules enhances TALEN activity. <i>Scientific Reports</i> , <b>2013</b> , 3, 3379	4.9	165
253	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> , <b>2014</b> , 26, 3763-74	11.6	155
252	Human Induced Pluripotent Stem Cell-Derived Podocytes Mature into Vascularized Glomeruli upon Experimental Transplantation. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2016</b> , 27, 1778-91	12.7	135
251	Simple knockout by electroporation of engineered endonucleases into intact rat embryos. <i>Scientific Reports</i> , <b>2014</b> , 4, 6382	4.9	133
250	TFE3 transcriptionally activates hepatic IRS-2, participates in insulin signaling and ameliorates diabetes. <i>Nature Medicine</i> , <b>2006</b> , 12, 107-13	50.5	124
249	SREBP-1 interacts with hepatocyte nuclear factor-4 alpha and interferes with PGC-1 recruitment to suppress hepatic gluconeogenic genes. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 12027-35	5.4	120
248	Non-transgenic genome modifications in a hemimetabolous insect using zinc-finger and TAL effector nucleases. <i>Nature Communications</i> , <b>2012</b> , 3, 1017	17.4	109
247	Generation of a Nonhuman Primate Model of Severe Combined Immunodeficiency Using Highly Efficient Genome Editing. <i>Cell Stem Cell</i> , <b>2016</b> , 19, 127-38	18	109

246	Sexually dimorphic expression of a teleost homologue of M $\mu$ erian inhibiting substance during gonadal sex differentiation in Japanese flounder, <i>Paralichthys olivaceus</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 322, 508-13	3.4	107
245	EDEM2 initiates mammalian glycoprotein ERAD by catalyzing the first mannose trimming step. <i>Journal of Cell Biology</i> , <b>2014</b> , 206, 347-56	7.3	105
244	Polyunsaturated fatty acids selectively suppress sterol regulatory element-binding protein-1 through proteolytic processing and autoloop regulatory circuit. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 11681-91	5.4	103
243	Prognostic value of the atrial systolic mitral annular motion velocity in patients with left ventricular systolic dysfunction. <i>Journal of the American Society of Echocardiography</i> , <b>2003</b> , 16, 333-9	5.8	92
242	Efficient targeted mutagenesis in medaka using custom-designed transcription activator-like effector nucleases. <i>Genetics</i> , <b>2013</b> , 193, 739-49	4	89
241	Protein kinase A suppresses sterol regulatory element-binding protein-1C expression via phosphorylation of liver X receptor in the liver. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 11687-95	5.4	79
240	The Microtubule-Depolymerizing Activity of a Mitotic Kinesin Protein KIF2A Drives Primary Cilia Disassembly Coupled with Cell Proliferation. <i>Cell Reports</i> , <b>2015</b> , 10, 664-673	10.6	78
239	High efficiency TALENs enable F0 functional analysis by targeted gene disruption in <i>Xenopus laevis</i> embryos. <i>Biology Open</i> , <b>2013</b> , 2, 448-52	2.2	73
238	Organoids from Nephrotic Disease-Derived iPSCs Identify Impaired NEPHRIN Localization and Slit Diaphragm Formation in Kidney Podocytes. <i>Stem Cell Reports</i> , <b>2018</b> , 11, 727-740	8	72
237	Stochastic promoter activation affects Nanog expression variability in mouse embryonic stem cells. <i>Scientific Reports</i> , <b>2014</b> , 4, 7125	4.9	69
236	Simultaneous live imaging of the transcription and nuclear position of specific genes. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, e127	20.1	68
235	Efficient gene targeting by TAL effector nucleases coinjected with exonucleases in zygotes. <i>Scientific Reports</i> , <b>2013</b> , 3, 1253	4.9	67
234	Targeted mutagenesis in the sea urchin embryo using zinc-finger nucleases. <i>Genes To Cells</i> , <b>2010</b> , 15, 875-85	2.3	66
233	CRISPR-Cas3 induces broad and unidirectional genome editing in human cells. <i>Nature Communications</i> , <b>2019</b> , 10, 5302	17.4	66
232	Unliganded thyroid hormone receptor $\beta$ regulates developmental timing via gene repression in <i>Xenopus tropicalis</i> . <i>Endocrinology</i> , <b>2015</b> , 156, 735-44	4.8	64
231	Tissue-specific and ubiquitous gene knockouts by TALEN electroporation provide new approaches to investigating gene function in <i>Ciona</i> . <i>Development (Cambridge)</i> , <b>2014</b> , 141, 481-7	6.6	63
230	Single-Molecule Nanoscopy Elucidates RNA Polymerase II Transcription at Single Genes in Live Cells. <i>Cell</i> , <b>2019</b> , 178, 491-506.e28	56.2	60
229	Cas9, Cpf1 and C2c1/2/3-What's next?. <i>Bioengineered</i> , <b>2017</b> , 8, 265-273	5.7	58

228	Highly efficient biallelic genome editing of human ES/iPS cells using a CRISPR/Cas9 or TALEN system. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, 5198-5207	20.1	58
227	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> , <b>2015</b> , 16, 23849-66	6.3	56
226	T-brain homologue (HpTb) is involved in the archenteron induction signals of micromere descendant cells in the sea urchin embryo. <i>Development (Cambridge)</i> , <b>2002</b> , 129, 5205-5216	6.6	56
225	Systematic Cellular Disease Models Reveal Synergistic Interaction of Trisomy 21 and GATA1 Mutations in Hematopoietic Abnormalities. <i>Cell Reports</i> , <b>2016</b> , 15, 1228-41	10.6	56
224	KLF15 Enables Rapid Switching between Lipogenesis and Gluconeogenesis during Fasting. <i>Cell Reports</i> , <b>2016</b> , 16, 2373-86	10.6	56
223	Depdc5 knockout rat: A novel model of mTORopathy. <i>Neurobiology of Disease</i> , <b>2016</b> , 89, 180-9	7.5	55
222	Genome Editing in Mouse Spermatogonial Stem Cell Lines Using TALEN and Double-Nicking CRISPR/Cas9. <i>Stem Cell Reports</i> , <b>2015</b> , 5, 75-82	8	53
221	Establishment of In Vitro FUS-Associated Familial Amyotrophic Lateral Sclerosis Model Using Human Induced Pluripotent Stem Cells. <i>Stem Cell Reports</i> , <b>2016</b> , 6, 496-510	8	53
220	Scleraxis is a transcriptional activator that regulates the expression of Tenomodulin, a marker of mature tenocytes and ligamentocytes. <i>Scientific Reports</i> , <b>2018</b> , 8, 3155	4.9	50
219	Highly efficient targeted mutagenesis in one-cell mouse embryos mediated by the TALEN and CRISPR/Cas systems. <i>Scientific Reports</i> , <b>2014</b> , 4, 5705	4.9	50
218	C-Type Lectin Receptor DCAR Recognizes Mycobacterial Phosphatidyl-Inositol Mannosides to Promote a Th1 Response during Infection. <i>Immunity</i> , <b>2016</b> , 45, 1245-1257	32.3	49
217	Gene cassette knock-in in mammalian cells and zygotes by enhanced MMEJ. <i>BMC Genomics</i> , <b>2016</b> , 17, 979	4.5	49
216	Production of Sry knockout mouse using TALEN via oocyte injection. <i>Scientific Reports</i> , <b>2013</b> , 3, 3136	4.9	49
215	RSF governs silent chromatin formation via histone H2Av replacement. <i>PLoS Genetics</i> , <b>2008</b> , 4, e10000116		49
214	A high excision potential of TALENs for integrated DNA of HIV-based lentiviral vector. <i>PLoS ONE</i> , <b>2015</b> , 10, e0120047	3.7	44
213	Microhomology-assisted scarless genome editing in human iPSCs. <i>Nature Communications</i> , <b>2018</b> , 9, 939	17.4	43
212	Replication stress induces accumulation of FANCD2 at central region of large fragile genes. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 2932-2944	20.1	43
211	TALEN-mediated single-base-pair editing identification of an intergenic mutation upstream of BUB1B as causative of PCS (MVA) syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 1461-6	11.5	43

210	Highly multiplexed CRISPR-Cas9-nuclease and Cas9-nickase vectors for inactivation of hepatitis B virus. <i>Genes To Cells</i> , <b>2016</b> , 21, 1253-1262	2.3	41
209	Production of knockout mice by DNA microinjection of various CRISPR/Cas9 vectors into freeze-thawed fertilized oocytes. <i>BMC Biotechnology</i> , <b>2015</b> , 15, 33	3.5	39
208	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> , <b>2016</b> , 12, e1005802	6	39
207	Efficient modification of the myostatin gene in porcine somatic cells and generation of knockout piglets. <i>Molecular Reproduction and Development</i> , <b>2016</b> , 83, 61-70	2.6	39
206	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> , <b>2015</b> , 20, 1059-76	2.3	38
205	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> , <b>2012</b> , 109, 10915-20	11.5	37
204	Targeted gene correction of RUNX1 in induced pluripotent stem cells derived from familial platelet disorder with propensity to myeloid malignancy restores normal megakaryopoiesis. <i>Experimental Hematology</i> , <b>2015</b> , 43, 849-57	3.1	36
203	Efficient targeted mutagenesis of the chordate <i>Ciona intestinalis</i> genome with zinc-finger nucleases. <i>Development Growth and Differentiation</i> , <b>2012</b> , 54, 535-45	3	36
202	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> , <b>2014</b> , 56, 115-21	3	34
201	Functional analysis of thyroid hormone receptor beta in founders using CRISPR-Cas. <i>Biology Open</i> , <b>2018</b> , 7,	2.2	33
200	Quantitative assay for TALEN activity at endogenous genomic loci. <i>Biology Open</i> , <b>2013</b> , 2, 363-7	2.2	33
199	Generation of mutant mice via the CRISPR/Cas9 system using FokI-dCas9. <i>Scientific Reports</i> , <b>2015</b> , 5, 11221	1.9	32
198	Forcible destruction of severely misfolded mammalian glycoproteins by the non-glycoprotein ERAD pathway. <i>Journal of Cell Biology</i> , <b>2015</b> , 211, 775-84	7.3	32
197	Targeted disruption of exogenous EGFP gene in medaka using zinc-finger nucleases. <i>Development Growth and Differentiation</i> , <b>2012</b> , 54, 546-56	3	30
196	HpSulf, a heparan sulfate 6-O-endosulfatase, is involved in the regulation of VEGF signaling during sea urchin development. <i>Mechanisms of Development</i> , <b>2010</b> , 127, 235-45	1.7	30
195	Prolactin induces apoptosis in the penultimate spermatogonial stage of the testes in Japanese red-bellied newt ( <i>Cynops pyrrhogaster</i> ). <i>Endocrinology</i> , <b>2000</b> , 141, 2027-32	4.8	29
194	Tailor-made TALEN system for highly efficient targeted gene replacement in the rice blast fungus. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 1335-42	4.9	28
193	Smarcal1 promotes double-strand-break repair by nonhomologous end-joining. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, 6359-72	20.1	28

192	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> , <b>2014</b> , 56, 108-14 <sup>3</sup>		28
191	Lipopolysaccharide primes human alveolar macrophages for enhanced release of superoxide anion and leukotriene B4: self-limitations of the priming response with protein synthesis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>1993</b> , 8, 500-8	5.7	27
190	PLK1-mediated phosphorylation of WDR62/MCPH2 ensures proper mitotic spindle orientation. <i>Human Molecular Genetics</i> , <b>2017</b> , 26, 4429-4440	5.6	26
189	Genome-wide kinetic properties of transcriptional bursting in mouse embryonic stem cells. <i>Science Advances</i> , <b>2020</b> , 6, eaaz6699	14.3	26
188	Germ cell mutations of the ascidian <i>Ciona intestinalis</i> with TALE nucleases. <i>Genesis</i> , <b>2014</b> , 52, 431-9	1.9	26
187	Screening methods to identify TALEN-mediated knockout mice. <i>Experimental Animals</i> , <b>2014</b> , 63, 79-84	1.8	26
186	Protein kinase Cbeta mediates hepatic induction of sterol-regulatory element binding protein-1c by insulin. <i>Journal of Lipid Research</i> , <b>2010</b> , 51, 1859-70	6.3	26
185	Quadruple zebrafish mutant reveals different roles of Mesp genes in somite segmentation between mouse and zebrafish. <i>Development (Cambridge)</i> , <b>2016</b> , 143, 2842-52	6.6	26
184	Follicle-stimulating hormone is indispensable for the last spermatogonial mitosis preceding meiosis initiation in newts ( <i>Cynops pyrrhogaster</i> ). <i>Biology of Reproduction</i> , <b>2002</b> , 66, 14-20	3.9	25
183	ALC1/CHD1L, a chromatin-remodeling enzyme, is required for efficient base excision repair. <i>PLoS ONE</i> , <b>2017</b> , 12, e0188320	3.7	25
182	Single-gene imaging links genome topology, promoter-enhancer communication and transcription control. <i>Nature Structural and Molecular Biology</i> , <b>2020</b> , 27, 1032-1040	17.6	25
181	Hox10-regulated endodermal cell migration is essential for development of the ascidian intestine. <i>Developmental Biology</i> , <b>2015</b> , 403, 43-56	3.1	24
180	Ultra-superovulation for the CRISPR-Cas9-mediated production of gene-knockout, single-amino-acid-substituted, and floxed mice. <i>Biology Open</i> , <b>2016</b> , 5, 1142-8	2.2	24
179	Raman Spectroscopy Study of Charge Fluctuation in the Spin-Liquid Candidate [BEDT-TTF) <sub>2</sub> Cu <sub>2</sub> (CN) <sub>3</sub> . <i>Journal of the Physical Society of Japan</i> , <b>2015</b> , 84, 084711	1.5	23
178	Down syndrome-associated haematopoiesis abnormalities created by chromosome transfer and genome editing technologies. <i>Scientific Reports</i> , <b>2014</b> , 4, 6136	4.9	23
177	Efficient genome engineering using Platinum TALEN in potato. <i>Plant Biotechnology</i> , <b>2019</b> , 36, 167-173	1.3	22
176	PAX2 is dispensable for in vitro nephron formation from human induced pluripotent stem cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 4554	4.9	22
175	HpBase: A genome database of a sea urchin, <i>Hemicentrotus pulcherrimus</i> . <i>Development Growth and Differentiation</i> , <b>2018</b> , 60, 174-182	3	21

174	The 3'UTR of nanos2 directs enrichment in the germ cell lineage of the sea urchin. <i>Developmental Biology</i> , <b>2013</b> , 377, 275-83	3.1	21
173	Rapid and efficient analysis of gene function using CRISPR-Cas9 in <i>Xenopus tropicalis</i> founders. <i>Genes To Cells</i> , <b>2016</b> , 21, 755-71	2.3	21
172	Modification of single-nucleotide polymorphism in a fully humanized CYP3A mouse by genome editing technology. <i>Scientific Reports</i> , <b>2017</b> , 7, 15189	4.9	20
171	Cloning and Expression of a cDNA Encoding a Prolactin Receptor of the Japanese Red-Bellied Newt, <i>Cynops pyrrhogaster</i> . <i>Zoological Science</i> , <b>1998</b> , 15, 741-747	0.8	20
170	Cas9 ribonucleoprotein complex allows direct and rapid analysis of coding and noncoding regions of target genes in <i>Pleurodeles waltl</i> development and regeneration. <i>Developmental Biology</i> , <b>2018</b> , 443, 127-136	3.1	20
169	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> , <b>2017</b> , 8, 302-308	5.7	19
168	Chemical mechanism of homoisocitrate dehydrogenase from <i>Saccharomyces cerevisiae</i> . <i>Biochemistry</i> , <b>2008</b> , 47, 4169-80	3.2	19
167	Effect of cilnidipine on left ventricular diastolic function in hypertensive patients as assessed by pulsed Doppler echocardiography and pulsed tissue Doppler imaging. <i>Japanese Circulation Journal</i> , <b>2001</b> , 65, 305-9		19
166	In vivo tracking of histone H3 lysine 9 acetylation in <i>Xenopus laevis</i> during tail regeneration. <i>Genes To Cells</i> , <b>2016</b> , 21, 358-69	2.3	18
165	Structure-activity relationship study, target identification, and pharmacological characterization of a small molecular IL-12/23 inhibitor, APY0201. <i>Bioorganic and Medicinal Chemistry</i> , <b>2014</b> , 22, 3021-9	3.4	18
164	Detailed analysis of targeted gene mutations caused by the Platinum-Fungal TALENs in <i>Aspergillus oryzae</i> RIB40 strain and a ligD disruptant. <i>Journal of Bioscience and Bioengineering</i> , <b>2017</b> , 123, 287-293	3.3	18
163	Role of the nanos homolog during sea urchin development. <i>Developmental Dynamics</i> , <b>2009</b> , 238, 2511-21	2.9	18
162	Analysis of cis-regulatory elements controlling spatio-temporal expression of T-brain gene in sea urchin, <i>Hemicentrotus pulcherrimus</i> . <i>Mechanisms of Development</i> , <b>2008</b> , 125, 2-17	1.7	18
161	Organ-specific and age-dependent expression of insulin-like growth factor-I (IGF-I) mRNA variants: IGF-IA and IB mRNAs in the mouse. <i>Zoological Science</i> , <b>2005</b> , 22, 1011-21	0.8	18
160	Cloning of a cDNA for <i>Xenopus</i> prolactin receptor and its metamorphic expression profile. <i>Development Growth and Differentiation</i> , <b>2000</b> , 42, 167-74	3	18
159	Molecular cloning, functional characterization, and gene expression of a follicle-stimulating hormone receptor in the testis of newt <i>Cynops pyrrhogaster</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 275, 121-8	3.4	18
158	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> , <b>2017</b> , 423, 111-125	3.1	17
157	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> , <b>2018</b> , 125, 599-605	3.3	17

156	Functional consequence of fibulin-4 missense mutations associated with vascular and skeletal abnormalities and cutis laxa. <i>Matrix Biology</i> , <b>2016</b> , 56, 132-149	11.4	17
155	Abnormal spermatogenesis at low temperatures in the Japanese red-bellied newt, <i>Cynops pyrrhogaster</i> : possible biological significance of the cessation of spermatocytogenesis. <i>Molecular Reproduction and Development</i> , <b>2003</b> , 66, 60-6	2.6	17
154	Conversion from mitosis to meiosis: morphology and expression of proliferating cell nuclear antigen (PCNA) and Dmc1 during newt spermatogenesis. <i>Development Growth and Differentiation</i> , <b>2000</b> , 42, 603-11	3	17
153	Insufficiency of ciliary cholesterol in hereditary Zellweger syndrome. <i>EMBO Journal</i> , <b>2020</b> , 39, e103499	13	17
152	EDEM2 stably disulfide-bonded to TXNDC11 catalyzes the first mannose trimming step in mammalian glycoprotein ERAD. <i>ELife</i> , <b>2020</b> , 9,	8.9	17
151	Development of an integrated CRISPRi targeting Np63 for treatment of squamous cell carcinoma. <i>Oncotarget</i> , <b>2018</b> , 9, 29220-29232	3.3	17
150	T-brain homologue (HpTb) is involved in the archenteron induction signals of micromere descendant cells in the sea urchin embryo. <i>Development (Cambridge)</i> , <b>2002</b> , 129, 5205-16	6.6	17
149	Desmocollin-2 alone forms functional desmosomal plaques, with the plaque formation requiring the juxtamembrane region and plakophilins. <i>Journal of Biochemistry</i> , <b>2015</b> , 158, 339-53	3.1	16
148	Targeted mutagenesis in sea urchin embryos using TALENs. <i>Development Growth and Differentiation</i> , <b>2014</b> , 56, 92-7	3	16
147	Equarin is involved as an FGF signaling modulator in chick lens differentiation. <i>Developmental Biology</i> , <b>2012</b> , 368, 109-17	3.1	16
146	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> , <b>2019</b> , 116, 3072-3081	11.5	15
145	Biased genome editing using the local accumulation of DSB repair molecules system. <i>Nature Communications</i> , <b>2018</b> , 9, 3270	17.4	15
144	The importance of lone pair delocalizations: theoretical investigations on the stability of cis and trans isomers in 1,2-halodiazenes. <i>Journal of Organic Chemistry</i> , <b>2008</b> , 73, 5429-35	4.2	15
143	Mammalian follicle-stimulating hormone and insulin-like growth factor I (IGF-I) up-regulate IGF-I gene expression in organ culture of newt testis. <i>Molecular Reproduction and Development</i> , <b>2001</b> , 60, 56-64 <sup>6</sup>	2.6	15
142	Tailor-made gene silencing of Staphylococcus aureus clinical isolates by CRISPR interference. <i>PLoS ONE</i> , <b>2018</b> , 13, e0185987	3.7	15
141	TALEN-induced gene knock out in Drosophila. <i>Development Growth and Differentiation</i> , <b>2014</b> , 56, 86-91	3	14
140	Evaluation of ATM heterozygous mutations underlying individual differences in radiosensitivity using genome editing in human cultured cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 5996	4.9	14
139	Targeted gene disruption by use of transcription activator-like effector nuclease (TALEN) in the water flea <i>Daphnia pulex</i> . <i>BMC Biotechnology</i> , <b>2014</b> , 14, 95	3.5	14



138	Developmental expression of HpNanos, the Hemicentrotus pulcherrimus homologue of nanos. <i>Gene Expression Patterns</i> , <b>2006</b> , 6, 572-7	1.5	14
137	Involvement of aspartoacylase in tremor expression in rats. <i>Experimental Animals</i> , <b>2016</b> , 65, 293-301	1.8	14
136	Transcriptional regulation of a horizontally transferred gene from bacterium to chordate. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 283,	4.4	14
135	Electroporation-mediated genome editing in vitrified/warmed mouse zygotes created by IVF via ultra-superovulation. <i>Experimental Animals</i> , <b>2018</b> , 67, 535-543	1.8	13
134	Activin Is Superior to BMP7 for Efficient Maintenance of Human iPSC-Derived Nephron Progenitors. <i>Stem Cell Reports</i> , <b>2019</b> , 13, 322-337	8	13
133	The Expression of TALEN before Fertilization Provides a Rapid Knock-Out Phenotype in <i>Xenopus laevis</i> Founder Embryos. <i>PLoS ONE</i> , <b>2015</b> , 10, e0142946	3.7	13
132	The Ars insulator facilitates I-SceI meganuclease-mediated transgenesis in the sea urchin embryo. <i>Developmental Dynamics</i> , <b>2008</b> , 237, 2475-82	2.9	13
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127	Efficient and multiplexable genome editing using Platinum TALENs in oleaginous microalga, <i>Nannochloropsis oceanica</i> NIES-2145. <i>Genes To Cells</i> , <b>2020</b> , 25, 695-702	2.3	12
126	Loss of HCN1 subunits causes absence epilepsy in rats. <i>Brain Research</i> , <b>2019</b> , 1706, 209-217	3.7	12
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