

# Takashi Yamamoto

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Gene manipulation in the Mucorales fungus <i>Rhizopus oryzae</i> using TALENs with exonuclease overexpression.. <i>FEMS Microbiology Letters</i> , <b>2022</b> ,	2.9	2
262	Genome editing with removable TALEN vectors harboring a yeast centromere and an autonomous replication sequence in a flagellated microalga.. <i>Scientific Reports</i> , <b>2022</b> , 12, 2480	4.9	1
261	Panel of human cell lines with human/mouse artificial chromosomes.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3009	4.9	0
260	TrBase: A genome and transcriptome database of <i>Temnopleurus reevesii</i> .. <i>Development Growth and Differentiation</i> , <b>2022</b> ,	3	1
259	Establishment of CRFK cells for vaccine production by inactivating endogenous retrovirus with TALEN technology.. <i>Scientific Reports</i> , <b>2022</b> , 12, 6641	4.9	
258	Usage of the Sea Urchin <i>Hemicentrotus pulcherrimus</i> Database, HpBase. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2219, 267-275	1.4	
257	NBS1 I171V variant underlies individual differences in chromosomal radiosensitivity within human populations. <i>Scientific Reports</i> , <b>2021</b> , 11, 19661	4.9	0
256	TALEN-mediated generation of Nkx3.1 knockout rat model. <i>Prostate</i> , <b>2021</b> , 81, 182-193	4.2	1
255	CRISPR-Cas9 editing of non-coding genomic loci as a means of controlling gene expression in the sea urchin. <i>Developmental Biology</i> , <b>2021</b> , 472, 85-97	3.1	5
254	Improvement of fatty acid productivity of thraustochytrid, <i>Aurantiochytrium</i> sp. by genome editing. <i>Journal of Bioscience and Bioengineering</i> , <b>2021</b> , 131, 373-380	3.3	4
253	Down syndrome-related transient abnormal myelopoiesis is attributed to a specific erythro-megakaryocytic subpopulation with mutation. <i>Haematologica</i> , <b>2021</b> , 106, 635-640	6.6	6
252	PHF24 is expressed in the inhibitory interneurons in rats. <i>Experimental Animals</i> , <b>2021</b> , 70, 137-143	1.8	0
251	Murine neonatal ketogenesis preserves mitochondrial energetics by preventing protein hyperacetylation. <i>Nature Metabolism</i> , <b>2021</b> , 3, 196-210	14.6	6
250	Pou5f3.3 is involved in establishment and maintenance of hematopoietic cells during <i>Xenopus</i> development. <i>Tissue and Cell</i> , <b>2021</b> , 72, 101531	2.7	0
249	TALEN-Mediated Gene Editing of <i>slc24a5</i> (Solute Carrier Family 24, Member 5) in <i>Kawakawa</i> , <i>Euthynnus affinis</i> . <i>Journal of Marine Science and Engineering</i> , <b>2021</b> , 9, 1378	2.4	4
248	Establishment of homozygous knock-out sea urchins. <i>Current Biology</i> , <b>2020</b> , 30, R427-R429	6.3	10
247	Genome-wide kinetic properties of transcriptional bursting in mouse embryonic stem cells. <i>Science Advances</i> , <b>2020</b> , 6, eaaz6699	14.3	26

246	Various strategies of effector accumulation to improve the efficiency of genome editing and derivative methodologies. <i>In Vitro Cellular and Developmental Biology - Animal</i> , <b>2020</b> , 56, 359-366	2.6	4
245	DJ-1 is indispensable for the S-nitrosylation of Parkin, which maintains function of mitochondria. <i>Scientific Reports</i> , <b>2020</b> , 10, 4377	4.9	11
244	Regenerating islet-derived protein (Reg3β) plays a crucial role in attenuation of ileitis and colitis in mice. <i>Biochemistry and Biophysics Reports</i> , <b>2020</b> , 21, 100738	2.2	4
243	Three multi-allelic gene pairs are responsible for self-sterility in the ascidian <i>Ciona intestinalis</i> . <i>Scientific Reports</i> , <b>2020</b> , 10, 2514	4.9	6
242	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> , <b>2020</b> , 122, 823-834	8.7	4
241	Six1 is required for signaling center formation and labial-lingual asymmetry in developing lower incisors. <i>Developmental Dynamics</i> , <b>2020</b> , 249, 1098-1116	2.9	
240	A simple and practical workflow for genotyping of CRISPR-Cas9-based knockout phenotypes using multiplexed amplicon sequencing. <i>Genes To Cells</i> , <b>2020</b> , 25, 498-509	2.3	6
239	GABA-Induced GnRH Release Triggers Chordate Metamorphosis. <i>Current Biology</i> , <b>2020</b> , 30, 1555-1561.e4	6.3	10
238	Insufficiency of ciliary cholesterol in hereditary Zellweger syndrome. <i>EMBO Journal</i> , <b>2020</b> , 39, e103499	13	17
237	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
236	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> , <b>2020</b> , 458, 120-131	3.1	4
235	Reinvestigation of Disulfide-bonded Oligomeric Forms of the Unfolded Protein Response Transducer ATF6. <i>Cell Structure and Function</i> , <b>2020</b> , 45, 9-21	2.2	6
234	Amiodarone bioconcentration and suppression of metamorphosis in <i>Xenopus</i> . <i>Aquatic Toxicology</i> , <b>2020</b> , 228, 105623	5.1	1
233	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
232	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
231	Pathological characteristics of <i>Ccdc85c</i> knockout rats: a rat model of genetic hydrocephalus. <i>Experimental Animals</i> , <b>2020</b> , 69, 26-33	1.8	4
230	Role of dynamic nuclear deformation on genomic architecture reorganization. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1007289	5	11
229	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> , <b>2019</b> , 9, 13871	4.9	8

228	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> , <b>2019</b> , 518, 311-318	3.4	5
227	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
226	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
225	Anephrogenic phenotype induced by SALL1 gene knockout in pigs. <i>Scientific Reports</i> , <b>2019</b> , 9, 8016	4.9	4
224	Increased seizure sensitivity, emotional defects and cognitive impairment in PHD finger protein 24 (Phf24)-null rats. <i>Behavioural Brain Research</i> , <b>2019</b> , 369, 111922	3.4	7
223	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> , <b>2019</b> , 73, 25-37.e8	3.1	11
222	Differential transactivation of the upstream aggrecan enhancer regulated by PAX1/9 depends on SOX9-driven transactivation. <i>Scientific Reports</i> , <b>2019</b> , 9, 4605	4.9	7
221	PDIP38/PolDIP2 controls the DNA damage tolerance pathways by increasing the relative usage of translesion DNA synthesis over template switching. <i>PLoS ONE</i> , <b>2019</b> , 14, e0213383	3.7	9
220	Elucidation of secondary alcohol metabolism in <i>Starmerella bombicola</i> and contribution of primary alcohol oxidase FAO1. <i>FEMS Yeast Research</i> , <b>2019</b> , 19,	3.1	1
219	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
218	Establishment of knockout adult sea urchins by using a CRISPR-Cas9 system. <i>Development Growth and Differentiation</i> , <b>2019</b> , 61, 378-388	3	11
217	Efficient genome engineering using Platinum TALEN in potato. <i>Plant Biotechnology</i> , <b>2019</b> , 36, 167-173	1.3	22
216	CRISPR-Cas3 induces broad and unidirectional genome editing in human cells. <i>Nature Communications</i> , <b>2019</b> , 10, 5302	17.4	66
215	Loss of HCN1 subunits causes absence epilepsy in rats. <i>Brain Research</i> , <b>2019</b> , 1706, 209-217	3.7	12
214	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> , <b>2019</b> , 61, 186-197	3	4
213	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> , <b>2018</b> , 28, 100-104	1.6	9
212	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
211	Microhomology-assisted scarless genome editing in human iPSCs. <i>Nature Communications</i> , <b>2018</b> , 9, 939	17.4	43

210	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
209	PLEKHN1 promotes apoptosis by enhancing Bax-Bak hetero-oligomerization through interaction with Bid in human colon cancer. <i>Cell Death Discovery</i> , <b>2018</b> , 4, 11	6.9	10
208	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
207	Unexpected heterogeneity derived from Cas9 ribonucleoprotein-introduced clonal cells at the HPRT1 locus. <i>Genes To Cells</i> , <b>2018</b> , 23, 255-263	2.3	6
206	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
205	Exploration of genetic basis underlying individual differences in radiosensitivity within human populations using genome editing technology. <i>Journal of Radiation Research</i> , <b>2018</b> , 59, ii75-ii82	2.4	7
204	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
203	Biased genome editing using the local accumulation of DSB repair molecules system. <i>Nature Communications</i> , <b>2018</b> , 9, 3270	17.4	15
202	Functional analysis of thyroid hormone receptor beta in founders using CRISPR-Cas. <i>Biology Open</i> , <b>2018</b> , 7,	2.2	33
201	Tailor-made gene silencing of <i>Staphylococcus aureus</i> clinical isolates by CRISPR interference. <i>PLoS ONE</i> , <b>2018</b> , 13, e0185987	3.7	15
200	Cancer induction and suppression with transcriptional control and epigenome editing technologies. <i>Journal of Human Genetics</i> , <b>2018</b> , 63, 187-194	4.3	5
199	Development of an integrated CRISPRi targeting p53 for treatment of squamous cell carcinoma. <i>Oncotarget</i> , <b>2018</b> , 9, 29220-29232	3.3	17
198	MET Activation by a Macrocytic Peptide Agonist that Couples to Biological Responses Differently from HGF in a Context-Dependent Manner. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	5
197	Generation of and characterization of anti-IL-11 antibodies using newly established IL11-deficient mice. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 505, 453-459	3.4	6
196	Acceleration of cancer science with genome editing and related technologies. <i>Cancer Science</i> , <b>2018</b> , 109, 3679-3685	6.9	13
195	Three-Component Repurposed Technology for Enhanced Expression: Highly Accumulable Transcriptional Activators via Branched Tag Arrays. <i>CRISPR Journal</i> , <b>2018</b> , 1, 337-347	2.5	13
194	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
193	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

192	A Simple Knock-In System for <i>Xenopus</i> via Microhomology Mediated End Joining Repair. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1865, 91-103	1.4	2
191	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> , <b>2018</b> , 59, 529-538	3.2	6
190	Identification of a cell-penetrating peptide applicable to a protein-based transcription activator-like effector expression system for cell engineering. <i>Biomaterials</i> , <b>2018</b> , 173, 11-21	15.6	10
189	Cas9, Cpf1 and C2c1/2/3-What's next?. <i>Bioengineered</i> , <b>2017</b> , 8, 265-273	5.7	58
188	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
187	Culture time of vitrified/warmed zygotes before microinjection affects the production efficiency of CRISPR-Cas9-mediated knock-in mice. <i>Biology Open</i> , <b>2017</b> , 6, 706-713	2.2	8
186	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
185	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
184	Hox-mediated endodermal identity patterns pharyngeal muscle formation in the chordate pharynx. <i>Development (Cambridge)</i> , <b>2017</b> , 144, 1629-1634	6.6	11
183	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
182	TALEN-mediated targeted editing of the GDE5 gene suppresses fibroblastic cell proliferation. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2017</b> , 81, 2164-2167	2.1	
181	Establishment of pten knockout medaka with transcription activator-like effector nucleases (TALENs) as a model of PTEN deficiency disease. <i>PLoS ONE</i> , <b>2017</b> , 12, e0186878	3.7	2
180	Developmental changes in drug-metabolizing enzyme expression during metamorphosis of <i>Xenopus tropicalis</i> . <i>Journal of Toxicological Sciences</i> , <b>2017</b> , 42, 605-613	1.9	1
179	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
178	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
177	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
176	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> , <b>2017</b> , 1622, 269-292	1.4	1
175	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

174	Clustered <i>Xenopus</i> keratin genes: A genomic, transcriptomic, and proteomic analysis. <i>Developmental Biology</i> , <b>2017</b> , 426, 384-392	3.1	10
173	All-in-One CRISPR-Cas9/FokI-dCas9 Vector-Mediated Multiplex Genome Engineering in Cultured Cells. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1498, 41-56	1.4	10
172	Dynamic changes in the interchromosomal interaction of early histone gene loci during development of sea urchin. <i>Journal of Cell Science</i> , <b>2017</b> , 130, 4097-4107	5.3	3
171	Participation of androgen and its receptor in sex determination of an amphibian species. <i>PLoS ONE</i> , <b>2017</b> , 12, e0178067	3.7	11
170	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
169	Construction and Evaluation of Zinc Finger Nucleases. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1630, 1-24	1.4	2
168	A Simple Protocol for Loss-of-Function Analysis in <i>Xenopus tropicalis</i> Founders Using the CRISPR-Cas System. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1630, 189-203	1.4	6
167	Current Overview of TALEN Construction Systems. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1630, 25-36	1.4	8
166	Influence of Corrosion Distribution on Estimation of Flexural Loading Capacity of Corroded RC Beams. <i>Journal of Disaster Research</i> , <b>2017</b> , 12, 478-486	0.8	
165	Engineering Customized TALENs Using the Platinum Gate TALEN Kit. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1338, 61-70	1.4	11
164	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
163	Gene cassette knock-in in mammalian cells and zygotes by enhanced MMEJ. <i>BMC Genomics</i> , <b>2016</b> , 17, 979	4.5	49
162	Cilia play a role in breaking left-right symmetry of the sea urchin embryo. <i>Genes To Cells</i> , <b>2016</b> , 21, 568-72	3	6
161	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
160	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
159	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
158	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
157	Depdc5 knockout rat: A novel model of mTORopathy. <i>Neurobiology of Disease</i> , <b>2016</b> , 89, 180-9	7.5	55

156	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> , <b>2016</b> , 27, 436-50	4.8	9
155	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
154	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
153	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
152	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
151	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
150	Single-Cell-State Culture of Human Pluripotent Stem Cells Increases Transfection Efficiency. <i>BioResearch Open Access</i> , <b>2016</b> , 5, 127-36	2.4	6
149	Temporal effects of Notch signaling and potential cooperation with multiple downstream effectors on adenohypophysis cell specification in zebrafish. <i>Genes To Cells</i> , <b>2016</b> , 21, 492-504	2.3	3
148	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
147	Involvement of aspartoacylase in tremor expression in rats. <i>Experimental Animals</i> , <b>2016</b> , 65, 293-301	1.8	14
146	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> , <b>2016</b> , 6, 37887	4.9	7
145	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
144	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
143	KLF15 Enables Rapid Switching between Lipogenesis and Gluconeogenesis during Fasting. <i>Cell Reports</i> , <b>2016</b> , 16, 2373-86	10.6	56
142	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
141	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
140	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
139	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



138	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
137	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
136	Generation of mutant mice via the CRISPR/Cas9 system using FokI-dCas9. <i>Scientific Reports</i> , <b>2015</b> , 5, 11221	32	
135	Genome Editing Using Zinc-Finger Nucleases (ZFNs) and Transcription Activator-Like Effector Nucleases (TALENs) <b>2015</b> , 3-24		2
134	Cloning-free CRISPR/Cas system facilitates functional cassette knock-in in mice. <i>Genome Biology</i> , <b>2015</b> , 16, 87	18.3	197
133	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
132	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
131	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
130	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
129	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
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2	Genome-wide analysis of transcriptional bursting-induced noise in mammalian cells		2
1	A non-human primate model of familial Alzheimer's disease		5