Jin-Soo Kim

List of Publications by Year
in descending order

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191 papers	25,872 citations	13332 70 h-index	8433 152 g-index
208 all docs	208 docs citations	208 times ranked	24059 citing authors

#	Article	IF	Citations
1	Targeted genome engineering in human cells with the Cas9 RNA-guided endonuclease. Nature Biotechnology, 2013, 31, 230-232.	9.4	1,653
2	Cas-OFFinder: a fast and versatile algorithm that searches for potential off-target sites of Cas9 RNA-guided endonucleases. Bioinformatics, 2014, 30, 1473-1475.	1.8	1,651
3	Highly efficient RNA-guided genome editing in human cells via delivery of purified Cas9 ribonucleoproteins. Genome Research, 2014, 24, 1012-1019.	2.4	1,470
4	Analysis of off-target effects of CRISPR/Cas-derived RNA-guided endonucleases and nickases. Genome Research, 2014, 24, 132-141.	2.4	1,195
5	A guide to genome engineering with programmable nucleases. Nature Reviews Genetics, 2014, 15, 321-334.	7.7	990
6	DNA-free genome editing in plants with preassembled CRISPR-Cas9 ribonucleoproteins. Nature Biotechnology, 2015, 33, 1162-1164.	9.4	975
7	Digenome-seq: genome-wide profiling of CRISPR-Cas9 off-target effects in human cells. Nature Methods, 2015, 12, 237-243.	9.0	850
8	Correction of a pathogenic gene mutation in human embryos. Nature, 2017, 548, 413-419.	13.7	781
9	Genome-wide analysis reveals specificities of Cpf1 endonucleases in human cells. Nature Biotechnology, 2016, 34, 863-868.	9.4	612
10	DNA-Free Genetically Edited Grapevine and Apple Protoplast Using CRISPR/Cas9 Ribonucleoproteins. Frontiers in Plant Science, 2016, 7, 1904.	1.7	550
11	In vivo genome editing with a small Cas9 orthologue derived from Campylobacter jejuni. Nature Communications, 2017, 8, 14500.	5.8	539
12	Targeted genome editing in human cells with zinc finger nucleases constructed via modular assembly. Genome Research, 2009, 19, 1279-1288.	2.4	403
13	CRISPR/Cpf1-mediated DNA-free plant genome editing. Nature Communications, 2017, 8, 14406.	5.8	386
14	Directed evolution of CRISPR-Cas9 to increase its specificity. Nature Communications, 2018, 9, 3048.	5.8	357
15	Adenine base editing in mouse embryos and an adult mouse model of Duchenne muscular dystrophy. Nature Biotechnology, 2018, 36, 536-539.	9.4	345
16	A library of TAL effector nucleases spanning the human genome. Nature Biotechnology, 2013, 31, 251-258.	9.4	344
17	Microhomology-based choice of Cas9 nuclease target sites. Nature Methods, 2014, 11, 705-706.	9.0	336
18	Highly efficient RNA-guided base editing in mouse embryos. Nature Biotechnology, 2017, 35, 435-437.	9.4	330

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19	Knockout mice created by TALEN-mediated gene targeting. Nature Biotechnology, 2013, 31, 23-24.	9.4	326
20	CRISPR/Cas9-induced knockout and knock-in mutations in Chlamydomonas reinhardtii. Scientific Reports, 2016, 6, 27810.	1.6	315
21	Genome editing reveals a role for OCT4 in human embryogenesis. Nature, 2017, 550, 67-73.	13.7	315
22	Cas-analyzer: an online tool for assessing genome editing results using NGS data. Bioinformatics, 2017, 33, 286-288.	1.8	313
23	Cas-Designer: a web-based tool for choice of CRISPR-Cas9 target sites. Bioinformatics, 2015, 31, 4014-4016.	1.8	306
24	Functional Correction of Large Factor VIII Gene Chromosomal Inversions in Hemophilia A Patient-Derived iPSCs Using CRISPR-Cas9. Cell Stem Cell, 2015, 17, 213-220.	5.2	263
25	DNA-free two-gene knockout in Chlamydomonas reinhardtii via CRISPR-Cas9 ribonucleoproteins. Scientific Reports, 2016, 6, 30620.	1.6	253
26	Highly efficient gene knockout in mice and zebrafish with RNA-guided endonucleases. Genome Research, 2014, 24, 125-131.	2.4	249
27	Genome-wide target specificities of CRISPR RNA-guided programmable deaminases. Nature Biotechnology, 2017, 35, 475-480.	9.4	239
28	Heritable Gene Knockout in <i>Caenorhabditis elegans</i> by Direct Injection of Cas9â€“sgRNA Ribonucleoproteins. Genetics, 2013, 195, 1177-1180.	1.2	237
29	Targeted chromosomal deletions in human cells using zinc finger nucleases. Genome Research, 2010, 20, 81-89.	2.4	234
30	Precision genome engineering through adenine base editing in plants. Nature Plants, 2018, 4, 427-431.	4.7	227
31	Getting a handhold on DNA: Design of poly-zinc finger proteins with femtomolar dissociation constants. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 2812-2817.	3.3	226
32	Surrogate reporters for enrichment of cells with nuclease-induced mutations. Nature Methods, 2011, 8, 941-943.	9.0	192
33	Targeted mutagenesis in mice by electroporation of Cpf1 ribonucleoproteins. Nature Biotechnology, 2016, 34, 807-808.	9.4	191
34	Site-directed mutagenesis in PetuniaÂÃ—Âhybrida protoplast system using direct delivery of purified recombinant Cas9 ribonucleoproteins. Plant Cell Reports, 2016, 35, 1535-1544.	2.8	186
35	Human zinc fingers as building blocks in the construction of artificial transcription factors. Nature Biotechnology, 2003, 21, 275-280.	9.4	184
36	Genome-wide target specificities of CRISPR-Cas9 nucleases revealed by multiplex Digenome-seq. Genome Research, 2016, 26, 406-415.	2.4	184

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37	Measuring and Reducing Off-Target Activities of Programmable Nucleases Including CRISPR-Cas9. Molecules and Cells, 2015, 38, 475-481.	1.0	181
38	Ribonuclease Sâ€peptide as a carrier in fusion proteins. Protein Science, 1993, 2, 348-356.	3.1	178
39	CRISPR RNAs trigger innate immune responses in human cells. Genome Research, 2018, 28, 367-373.	2.4	177
40	Site-directed mutagenesis in Arabidopsis thaliana using dividing tissue-targeted RGEN of the CRISPR/Cas system to generate heritable null alleles. Planta, 2015, 241, 271-284.	1.6	159
41	Targeted chromosomal duplications and inversions in the human genome using zinc finger nucleases. Genome Research, 2012, 22, 539-548.	2.4	155
42	Genome-wide target specificity of CRISPR RNA-guided adenine base editors. Nature Biotechnology, 2019, 37, 430-435.	9.4	151
43	Direct observation of DNA target searching and cleavage by CRISPR-Cas12a. Nature Communications, 2018, 9, 2777.	5.8	148
44	Phenotypic alteration of eukaryotic cells using randomized libraries of artificial transcription factors. Nature Biotechnology, 2003, 21, 1208-1214.	9.4	144
45	Genome surgery using Cas9 ribonucleoproteins for the treatment of age-related macular degeneration. Genome Research, 2017, 27, 419-426.	2.4	136
46	Targeted gene knockout in chickens mediated by TALENs. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12716-12721.	3.3	135
47	ISSCR Guidelines for Stem Cell Research and Clinical Translation: The 2021 update. Stem Cell Reports, 2021, 16, 1398-1408.	2.3	134
48	Targeted inversion and reversion of the blood coagulation factor 8 gene in human iPS cells using TALENs. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9253-9258.	3.3	129
49	Precision genome engineering with programmable DNA-nicking enzymes. Genome Research, 2012, 22, 1327-1333.	2.4	127
50	Web-based design and analysis tools for CRISPR base editing. BMC Bioinformatics, 2018, 19, 542.	1.2	127
51	Surrogate reporter-based enrichment of cells containing RNA-guided Cas9 nuclease-induced mutations. Nature Communications, 2014, 5, 3378.	5.8	123
52	Evaluating and Enhancing Target Specificity of Gene-Editing Nucleases and Deaminases. Annual Review of Biochemistry, 2019, 88, 191-220.	5.0	120
53	The road ahead in genetics and genomics. Nature Reviews Genetics, 2020, 21, 581-596.	7.7	118
54	Genotyping with CRISPR-Cas-derived RNA-guided endonucleases. Nature Communications, 2014, 5, 3157.	5.8	117

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55	Efficient delivery of nuclease proteins for genome editing in human stem cells and primary cells. Nature Protocols, 2015, 10, 1842-1859.	5.5	113
56	CRISPR germline engineeringâ€"the community speaks. Nature Biotechnology, 2015, 33, 478-486.	9.4	110
57	Gene inactivation using the CRISPR/Cas9 system in the nematode Pristionchus pacificus. Development Genes and Evolution, 2015, 225, 55-62.	0.4	109
58	Long Terminal Repeat CRISPR-CAR-Coupled â€œUniversalâ€• T Cells Mediate Potent Anti-leukemic Effects. Molecular Therapy, 2018, 26, 1215-1227.	3.7	104
59	Targeted A-to-G base editing in human mitochondrial DNA with programmable deaminases. Cell, 2022, 185, 1764-1776.e12.	13.5	102
60	Adenine base editors catalyze cytosine conversions in human cells. Nature Biotechnology, 2019, 37, 1145-1148.	9.4	95
61	Structural roles of guide RNAs in the nuclease activity of Cas9 endonuclease. Nature Communications, 2016, 7, 13350.	5.8	94
62	Chloroplast and mitochondrial DNA editing in plants. Nature Plants, 2021, 7, 899-905.	4.7	91
63	TALENs and ZFNs are associated with different mutation signatures. Nature Methods, 2013, 10, 185-185.	9.0	90
64	<scp>CRISPR</scp>/Cas9â€mediated editing of 1â€aminocyclopropaneâ€1â€carboxylate oxidase1 enhances <i>Petunia</i> flower longevity. Plant Biotechnology Journal, 2020, 18, 287-297.	4.1	90
65	Mechanism of Ribonuclease Cytotoxicity. Journal of Biological Chemistry, 1995, 270, 31097-31102.	1.6	88
66	Genome editing with modularly assembled zinc-finger nucleases. Nature Methods, 2010, 7, 91-91.	9.0	88
67	Selective disruption of an oncogenic mutant allele by CRISPR/Cas9 induces efficient tumor regression. Nucleic Acids Research, 2017, 45, 7897-7908.	6.5	87
68	Mitochondrial DNA editing in mice with DddA-TALE fusion deaminases. Nature Communications, 2021, 12, 1190.	5.8	86
69	Genome editing comes of age. Nature Protocols, 2016, 11, 1573-1578.	5.5	85
70	CUT-PCR: CRISPR-mediated, ultrasensitive detection of target DNA using PCR. Oncogene, 2017, 36, 6823-6829.	2.6	84
71	DIG-seq: a genome-wide CRISPR off-target profiling method using chromatin DNA. Genome Research, 2018, 28, 1894-1900.	2.4	84
72	<scp>CRISPR</scp> /Cas9 searches for a protospacer adjacent motif by lateral diffusion. EMBO Journal, 2019, 38, .	3.5	80

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73	Preassembled zinc-finger arrays for rapid construction of ZFNs. Nature Methods, 2011, 8, 7-7.	9.0	77
74	TALEN-based knockout library for human microRNAs. Nature Structural and Molecular Biology, 2013, 20, 1458-1464.	3.6	74
75	Rescue of high-specificity Cas9 variants using sgRNAs with matched 5â€™ nucleotides. Genome Biology, 2017, 18, 218.	3.8	73
76	Improving CRISPR Genome Editing by Engineering Guide RNAs. Trends in Biotechnology, 2019, 37, 870-881.	4.9	73
77	CRISPR-Cas9â€“mediated therapeutic editing of <i>Rpe65</i> ameliorates the disease phenotypes in a mouse model of Leber congenital amaurosis. Science Advances, 2019, 5, eaax1210.	4.7	72
78	CRISPR-LbCpf1 prevents choroidal neovascularization in a mouse model of age-related macular degeneration. Nature Communications, 2018, 9, 1855.	5.8	71
79	Precision genome engineering through adenine and cytosine base editing. Nature Plants, 2018, 4, 148-151.	4.7	69
80	Bypassing GMO regulations with CRISPR gene editing. Nature Biotechnology, 2016, 34, 1014-1015.	9.4	67
81	Functional Rescue of Dystrophin Deficiency in Mice Caused by Frameshift Mutations Using Campylobacter jejuni Cas9. Molecular Therapy, 2018, 26, 1529-1538.	3.7	67
82	Structural Basis for the Biological Activities of Bovine Seminal Ribonuclease. Journal of Biological Chemistry, 1995, 270, 10525-10530.	1.6	66
83	Non-GMO genetically edited crop plants. Trends in Biotechnology, 2015, 33, 489-491.	4.9	66
84	A simple, flexible and highâ€throughput cloning system for plant genome editing via CRISPRâ€Cas system. Journal of Integrative Plant Biology, 2016, 58, 705-712.	4.1	61
85	Cyclase-associated protein 1 is a binding partner of proprotein convertase subtilisin/kexin type-9 and is required for the degradation of low-density lipoprotein receptors by proprotein convertase subtilisin/kexin type-9. European Heart Journal, 2020, 41, 239-252.	1.0	61
86	Lipidâ€“Goldâ€Nanoparticle Hybridâ€Based Gene Delivery. Small, 2008, 4, 1651-1655.	5.2	60
87	Fine-Tuning Next-Generation Genome Editing Tools. Trends in Biotechnology, 2016, 34, 562-574.	4.9	60
88	Zinc Finger Proteins as Designer Transcription Factors. Journal of Biological Chemistry, 2000, 275, 8742-8748.	1.6	57
89	PE-Designer and PE-Analyzer: web-based design and analysis tools for CRISPR prime editing. Nucleic Acids Research, 2021, 49, W499-W504.	6.5	57
90	Design of TATA box-binding protein/zinc finger fusions for targeted regulation of gene expression. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 3616-3620.	3.3	56

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91	Imaging inflammation using an activated macrophage probe with Slc18b1 as the activation-selective gating target. Nature Communications, 2019, 10, 1111.	5.8	56
92	Generation of cloned adult muscular pigs withÂmyostatin gene mutation by genetic engineering. RSC Advances, 2017, 7, 12541-12549.	1.7	55
93	Magnetic Separation and Antibiotics Selection Enable Enrichment of Cells with ZFN/TALEN-Induced Mutations. PLoS ONE, 2013, 8, e56476.	1.1	55
94	Novel Cancer Antiangiotherapy Using the VEGF Promoter-targeted Artificial Zinc-finger Protein and Oncolytic Adenovirus. Molecular Therapy, 2008, 16, 1033-1040.	3.7	53
95	Transcriptional Repression by Zinc Finger Peptides. Journal of Biological Chemistry, 1997, 272, 29795-29800.	1.6	51
96	Failure to detect DNA-guided genome editing using Natronobacterium gregoryi Argonaute. Nature Biotechnology, 2017, 35, 17-18.	9.4	50
97	dCas9-mediated Nanoelectrokinetic Direct Detection of Target Gene for Liquid Biopsy. Nano Letters, 2018, 18, 7642-7650.	4.5	50
98	Adenine base editor engineering reduces editing of bystander cytosines. Nature Biotechnology, 2021, 39, 1426-1433.	9.4	50
99	Efficient genome editing in hematopoietic stem cells with helper-dependent Ad5/35 vectors expressing site-specific endonucleases under microRNA regulation. Molecular Therapy - Methods and Clinical Development, 2015, 2, 14057.	1.8	49
100	Phenotypic Alteration and Target Gene Identification Using Combinatorial Libraries of Zinc Finger Proteins in Prokaryotic Cells. Journal of Bacteriology, 2005, 187, 5496-5499.	1.0	48
101	Long-Term Effects of InÂVivo Genome Editing in the Mouse Retina Using Campylobacter jejuni Cas9 Expressed via Adeno-Associated Virus. Molecular Therapy, 2019, 27, 130-136.	3.7	48
102	Cas-Database: web-based genome-wide guide RNA library design for gene knockout screens using CRISPR-Cas9. Bioinformatics, 2016, 32, 2017-2023.	1.8	46
103	Arrayed CRISPR screen with image-based assay reliably uncovers host genes required for coxsackievirus infection. Genome Research, 2018, 28, 859-868.	2.4	45
104	RNA-Guided Genome Editing in <i>Drosophila</i> with the Purified Cas9 Protein. G3: Genes, Genomes, Genetics, 2014, 4, 1291-1295.	0.8	44
105	Nuclear and mitochondrial DNA editing in human cells with zinc finger deaminases. Nature Communications, 2022, 13, 366.	5.8	43
106	Hematopoietic Signaling Mechanism Revealed from a Stem/Progenitor Cell Cistrome. Molecular Cell, 2015, 59, 62-74.	4.5	40
107	Targeted knockout of a chemokine-like gene increases anxiety and fear responses. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1041-E1050.	3.3	39
108	Dibromobimane as a Fluorescent Crosslinking Reagent. Analytical Biochemistry, 1995, 225, 174-176.	1.1	38

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109	Ma et al. reply. Nature, 2018, 560, E10-E23.	13.7	37
110	Fusion guide RNAs for orthogonal gene manipulation with Cas9 and Cpf1. Nature Communications, 2017, 8, 1723.	5.8	36
111	Unexpected CRISPR on-target effects. Nature Biotechnology, 2018, 36, 703-704.	9.4	36
112	Recent advances in genome editing of stem cells for drug discovery and therapeutic application. , 2020, 209, 107501.		36
113	Cooperativity and Specificity of Cys2His2 Zinc Finger Proteinâ˘DNA Interactions: A Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2010, 114, 7662-7671.	1.2	35
114	CRISPR-Pass: Gene Rescue of Nonsense Mutations Using Adenine Base Editors. Molecular Therapy, 2019, 27, 1364-1371.	3.7	34
115	CRISPR/Cas9-mediated gene knockout screens and target identification via whole-genome sequencing uncover host genes required for picornavirus infection. Journal of Biological Chemistry, 2017, 292, 10664-10671.	1.6	33
116	Myofibroblast in the ligamentum flavum hypertrophic activity. European Spine Journal, 2017, 26, 2021-2030.	1.0	32
117	Generation of early-flowering Chinese cabbage (Brassica rapa spp. pekinensis) through CRISPR/Cas9-mediated genome editing. Plant Biotechnology Reports, 2019, 13, 491-499.	0.9	32
118	Digenome-seq web tool for profiling CRISPR specificity. Nature Methods, 2017, 14, 548-549.	9.0	31
119	Peptide Tags for a Dual Affinity Fusion System. Analytical Biochemistry, 1994, 219, 165-166.	1.1	30
120	Custom DNA-Binding Proteins and Artificial Transcription Factors. Current Topics in Medicinal Chemistry, 2003, 3, 645-657.	1.0	30
121	Suppression of vascular endothelial growth factor expression at the transcriptional and post-transcriptional levels. Nucleic Acids Research, 2005, 33, e74-e74.	6.5	30
122	Hepatitis C Virus Entry Is Impaired by Claudin-1 Downregulation in Diacylglycerol Acyltransferase-1-Deficient Cells. Journal of Virology, 2014, 88, 9233-9244.	1.5	30
123	GATA Factor-Regulated Samd14 Enhancer Confers Red Blood Cell Regeneration and Survival in Severe Anemia. Developmental Cell, 2017, 42, 213-225.e4.	3.1	29
124	Mouse genetics: Catalogue and scissors. BMB Reports, 2012, 45, 686-692.	1.1	28
125	Analysis of the effect of aging on the response to hypoxia by cDNA microarray. Mechanisms of Ageing and Development, 2003, 124, 941-949.	2.2	27
126	Identification and Use of Zinc Finger Transcription Factors That Increase Production of Recombinant Proteins in Yeast and Mammalian Cells. Biotechnology Progress, 2008, 21, 664-670.	1.3	26

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127	Therapeutic applications of CRISPR RNA-guided genome editing. Briefings in Functional Genomics, 2017, 16, 38-45.	1.3	26
128	ISM1 protects lung homeostasis via cell-surface GRP78-mediated alveolar macrophage apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	26
129	Artificial Transcription Factors Increase Production of Recombinant Antibodies in Chinese Hamster Ovary Cells. Biotechnology Letters, 2006, 28, 9-15.	1.1	25
130	Small-molecule inhibitors of histone deacetylase improve CRISPR-based adenine base editing. Nucleic Acids Research, 2021, 49, 2390-2399.	6.5	24
131	Adenine Base Editor Ribonucleoproteins Delivered by Lentivirus-Like Particles Show High On-Target Base Editing and Undetectable RNA Off-Target Activities. CRISPR Journal, 2021, 4, 69-81.	1.4	24
132	Targeted genome engineering via zinc finger nucleases. Plant Biotechnology Reports, 2011, 5, 9-17.	0.9	23
133	Production of <i>MSTN</i>â€mutated cattle without exogenous gene integration using CRISPRâ€Cas9. Biotechnology Journal, 2022, 17, e2100198.	1.8	23
134	Response to â€œUnexpected mutations after CRISPRâ€“Cas9 editing in vivoâ€• Nature Methods, 2018, 15, 239-240.	9.0	22
135	Enrichment of cells with TALEN-induced mutations using surrogate reporters. Methods, 2014, 69, 108-117.	1.9	21
136	Knockout of the Ribonuclease Inhibitor Gene Leaves Human Cells Vulnerable to Secretory Ribonucleases. Biochemistry, 2016, 55, 6359-6362.	1.2	21
137	Targeted Genome Editing for Crop Improvement. Plant Breeding and Biotechnology, 2015, 3, 283-290.	0.3	21
138	Artificial Zinc Finger Fusions Targeting Sp1-binding Sites and the trans-Activator-responsive Element Potently Repress Transcription and Replication of HIV-1. Journal of Biological Chemistry, 2005, 280, 21545-21552.	1.6	20
139	CRISPR-Cas9 Screening of Kaposiâ€™s Sarcoma-Associated Herpesvirus-Transformed Cells Identifies XPO1 as a Vulnerable Target of Cancer Cells. MBio, 2019, 10, .	1.8	20
140	The efficacy of CRISPR-mediated cytosine base editing with the RPS5a promoter in Arabidopsis thaliana. Scientific Reports, 2021, 11, 8087.	1.6	20
141	A Misfolded but Active Dimer of Bovine Seminal Ribonuclease. FEBS Journal, 1994, 224, 109-114.	0.2	19
142	Induction and characterization of taxol-resistance phenotypes with a transiently expressed artificial transcriptional activator library. Nucleic Acids Research, 2004, 32, e116-e116.	6.5	19
143	SIRT1-mediated downregulation of p27Kip1 is essential for overcoming contact inhibition of Kaposi's sarcoma-associated herpesvirus transformed cells. Oncotarget, 2016, 7, 75698-75711.	0.8	18
144	CRISPR-sub: Analysis of DNA substitution mutations caused by CRISPR-Cas9 in human cells. Computational and Structural Biotechnology Journal, 2020, 18, 1686-1694.	1.9	17

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145	Genome-wide specificity of dCpf1 cytidine base editors. Nature Communications, 2020, 11, 4072.	5.8	17
146	The Functional Association of ACQOS/VICTR with Salt Stress Resistance in Arabidopsis thaliana Was Confirmed by CRISPR-Mediated Mutagenesis. International Journal of Molecular Sciences, 2021, 22, 11389.	1.8	17
147	Base editing in human cells with monomeric DddA-TALE fusion deaminases. Nature Communications, 2022, 13, .	5.8	17
148	Efficient<i>PRNP</i>deletion in bovine genome using gene-editing technologies in bovine cells. Prion, 2015, 9, 278-291.	0.9	16
149	Protein Kinase A Catalytic Subunit Is a Molecular Switch that Promotes the Pro-tumoral Function of Macrophages. Cell Reports, 2020, 31, 107643.	2.9	16
150	Identifying genome-wide off-target sites of CRISPR RNAâ€“guided nucleases and deaminases with Digenome-seq. Nature Protocols, 2021, 16, 1170-1192.	5.5	16
151	Toward a Functional Annotation of the Human Genome Using Artificial Transcription Factors. Genome Research, 2003, 13, 2708-2716.	2.4	15
152	Transduction of artificial transcriptional regulatory proteins into human cells. Nucleic Acids Research, 2008, 36, e103.	6.5	14
153	Web-Based CRISPR Toolkits: Cas-OFFinder, Cas-Designer, and Cas-Analyzer. Methods in Molecular Biology, 2021, 2162, 23-33.	0.4	14
154	Genome Engineering in Human Cells. Methods in Enzymology, 2014, 546, 93-118.	0.4	13
155	Apancreatic pigs cloned using Pdx1-disrupted fibroblasts created via TALEN-mediated mutagenesis. Oncotarget, 2017, 8, 115480-115489.	0.8	12
156	In situ functional dissection of RNA cis-regulatory elements by multiplex CRISPR-Cas9 genome engineering. Nature Communications, 2017, 8, 2109.	5.8	11
157	CRISPR-Cas12a with an oAd Induces Precise and Cancer-Specific Genomic Reprogramming of EGFR and Efficient Tumor Regression. Molecular Therapy, 2020, 28, 2286-2296.	3.7	11
158	Ribonucleases Endowed with Specific Toxicity for Spermatogenic Layers. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1997, 118, 881-888.	0.7	10
159	Analysis of Targeted Chromosomal Deletions Induced by Zinc Finger Nucleases. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5477.	0.2	10
160	A homozygous Keap1-knockout human embryonic stem cell line generated using CRISPR/Cas9 mediates gene targeting. Stem Cell Research, 2017, 19, 52-54.	0.3	10
161	Site-specific DNA excision via engineered zinc finger nucleases. Trends in Biotechnology, 2010, 28, 445-446.	4.9	9
162	One-step selection of artificial transcription factors using an in vivo screening system. Molecules and Cells, 2006, 21, 376-80.	1.0	9

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163	Rationally designed nanoparticle delivery of Cas9 ribonucleoprotein for effective gene editing. Journal of Controlled Release, 2022, 345, 108-119.	4.8	9
164	Generation of a Nrf2 homozygous knockout human embryonic stem cell line using CRISPR/Cas9. Stem Cell Research, 2017, 19, 46-48.	0.3	7
165	Microbial warfare against viruses. Science, 2018, 359, 993-993.	6.0	7
166	Off-the-Shelf, Immune-Compatible Human Embryonic Stem Cells Generated Via CRISPR-Mediated Genome Editing. Stem Cell Reviews and Reports, 2021, 17, 1053-1067.	1.7	7
167	Transient expression of an adenine base editor corrects the Hutchinson-Gilford progeria syndrome mutation and improves the skin phenotype in mice. Nature Communications, 2022, 13, .	5.8	7
168	Structural insights into the apo-structure of Cpf1 protein from Francisella novicida. Biochemical and Biophysical Research Communications, 2018, 498, 775-781.	1.0	6
169	Towards therapeutic base editing. Nature Medicine, 2018, 24, 1493-1495.	15.2	6
170	Guidelines for C to T base editing in plants: base-editing window, guide RNA length, and efficient promoter. Plant Biotechnology Reports, 2019, 13, 533-541.	0.9	6
171	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells. PLoS ONE, 2019, 14, e0225740.	1.1	6
172	Engineering of GAL1 promoter-driven expression system with artificial transcription factors. Biochemical and Biophysical Research Communications, 2006, 351, 412-417.	1.0	5
173	Artificial transcription regulator as a tool for improvement of cellular property in Saccharomyces cerevisiae. Chemical Engineering Science, 2013, 103, 42-49.	1.9	5
174	Production of CMAH Knockout Preimplantation Embryos Derived From Immortalized Porcine Cells Via TALE Nucleases. Molecular Therapy - Nucleic Acids, 2014, 3, e166.	2.3	5
175	Machine learning finds Cas9-edited genotypes. Nature Biomedical Engineering, 2018, 2, 892-893.	11.6	5
176	Production of Mutated Porcine Embryos Using Zinc Finger Nucleases and a Reporter-based Cell Enrichment System. Asian-Australasian Journal of Animal Sciences, 2014, 27, 324-329.	2.4	5
177	Voices of biotech. Nature Biotechnology, 2016, 34, 270-275.	9.4	4
178	A zero-background CRISPR binary vector system for construction of sgRNA libraries in plant functional genomics applications. Plant Biotechnology Reports, 2019, 13, 543-551.	0.9	4
179	Construction of Combinatorial Libraries that Encode Zinc Finger-Based Transcription Factors. Methods in Molecular Biology, 2010, 649, 133-147.	0.4	4
180	Sometimes youâ€™re the scooper, and sometimes you get scooped: How to turn both into something good. PLoS Biology, 2018, 16, e2006843.	2.6	3

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181	Target identification of mouse stem cell probe CDy1 as ALDH2 and Abcb1b through live-cell affinity-matrix and ABC CRISPRa library. RSC Chemical Biology, 2021, 2, 1590-1593.	2.0	3
182	Generation of a Dystrophin Mutant in Dog by Nuclear Transfer Using CRISPR/Cas9-Mediated Somatic Cells: A Preliminary Study. International Journal of Molecular Sciences, 2022, 23, 2898.	1.8	3
183	Visualizing Microglia with a Fluorescence Turnâ€On Ugt1a7c Substrate. Angewandte Chemie, 2019, 131, 8056-8060.	1.6	2
184	Base Editing in Progeria. New England Journal of Medicine, 2021, 384, 1364-1366.	13.9	1
185	Profiling Genome-Wide Specificity of CRISPR-Cas9 Using Digenome-Seq. Methods in Molecular Biology, 2021, 2162, 233-242.	0.4	1
186	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells. , 2019, 14, e0225740.		0
187	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells. , 2019, 14, e0225740.		0
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