Jin-Soo Kim

List of Publications by Year
in descending order

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	Production of <i>MSTN</i>â€mutated cattle without exogenous gene integration using CRISPRâ€Cas9. Biotechnology Journal, 2022, 17, e2100198.	1.8	23
2	Nuclear and mitochondrial DNA editing in human cells with zinc finger deaminases. Nature Communications, 2022, 13, 366.	5.8	43
3	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
4	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
5	Rationally designed nanoparticle delivery of Cas9 ribonucleoprotein for effective gene editing. Journal of Controlled Release, 2022, 345, 108-119.	4.8	9
6	Targeted A-to-G base editing in human mitochondrial DNA with programmable deaminases. Cell, 2022, 185, 1764-1776.e12.	13.5	102
7	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
8	Base editing in human cells with monomeric DddA-TALE fusion deaminases. Nature Communications, 2022, 13, .	5.8	17
9	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
10	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
11	Small-molecule inhibitors of histone deacetylase improve CRISPR-based adenine base editing. Nucleic Acids Research, 2021, 49, 2390-2399.	6.5	24
12	Mitochondrial DNA editing in mice with DddA-TALE fusion deaminases. Nature Communications, 2021, 12, 1190.	5.8	86
13	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
14	The efficacy of CRISPR-mediated cytosine base editing with the RPS5a promoter in Arabidopsis thaliana. Scientific Reports, 2021, 11, 8087.	1.6	20
15	Base Editing in Progeria. New England Journal of Medicine, 2021, 384, 1364-1366.	13.9	1
16	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
17	ISSCR Guidelines for Stem Cell Research and Clinical Translation: The 2021 update. Stem Cell Reports, 2021, 16, 1398-1408.	2.3	134
18	Chloroplast and mitochondrial DNA editing in plants. Nature Plants, 2021, 7, 899-905.	4.7	91

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19	Adenine base editor engineering reduces editing of bystander cytosines. Nature Biotechnology, 2021, 39, 1426-1433.	9.4	50
20	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
21	Profiling Genome-Wide Specificity of CRISPR-Cas9 Using Digenome-Seq. Methods in Molecular Biology, 2021, 2162, 233-242.	0.4	1
22	Web-Based CRISPR Toolkits: Cas-OFFinder, Cas-Designer, and Cas-Analyzer. Methods in Molecular Biology, 2021, 2162, 23-33.	0.4	14
23	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
24	<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
25	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
26	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
27	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
28	Genome-wide specificity of dCpf1 cytidine base editors. Nature Communications, 2020, 11, 4072.	5.8	17
29	The road ahead in genetics and genomics. Nature Reviews Genetics, 2020, 21, 581-596.	7.7	118
30	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
31	Recent advances in genome editing of stem cells for drug discovery and therapeutic application. , 2020, 209, 107501.		36
32	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
33	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
34	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
35	Adenine base editors catalyze cytosine conversions in human cells. Nature Biotechnology, 2019, 37, 1145-1148.	9.4	95
36	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

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37	CRISPR-Pass: Gene Rescue of Nonsense Mutations Using Adenine Base Editors. Molecular Therapy, 2019, 27, 1364-1371.	3.7	34
38	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
39	Visualizing Microglia with a Fluorescence Turnâ€On Ugt1a7c Substrate. Angewandte Chemie, 2019, 131, 8056-8060.	1.6	2
40	Evaluating and Enhancing Target Specificity of Gene-Editing Nucleases and Deaminases. Annual Review of Biochemistry, 2019, 88, 191-220.	5.0	120
41	Improving CRISPR Genome Editing by Engineering Guide RNAs. Trends in Biotechnology, 2019, 37, 870-881.	4.9	73
42	Genome-wide target specificity of CRISPR RNA-guided adenine base editors. Nature Biotechnology, 2019, 37, 430-435.	9.4	151
43	Imaging inflammation using an activated macrophage probe with Slc18b1 as the activation-selective gating target. Nature Communications, 2019, 10, 1111.	5.8	56
44	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells. PLoS ONE, 2019, 14, e0225740.	1.1	6
45	<scp>CRISPR</scp> /Cas9 searches for a protospacer adjacent motif by lateral diffusion. EMBO Journal, 2019, 38, .	3.5	80
46	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
47	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells. , 2019, 14, e0225740.		0
48	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells. , 2019, 14, e0225740.		0
49	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells. , 2019, 14, e0225740.		0
50	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells. , 2019, 14, e0225740.		0
51	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells. , 2019, 14, e0225740.		0
52	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells. , 2019, 14, e0225740.		0
53	CRISPR RNAs trigger innate immune responses in human cells. Genome Research, 2018, 28, 367-373.	2.4	177
54	Precision genome engineering through adenine and cytosine base editing. Nature Plants, 2018, 4, 148-151.	4.7	69

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55	Microbial warfare against viruses. Science, 2018, 359, 993-993.	6.0	7
56	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
57	Arrayed CRISPR screen with image-based assay reliably uncovers host genes required for coxsackievirus infection. Genome Research, 2018, 28, 859-868.	2.4	45
58	Adenine base editing in mouse embryos and an adult mouse model of Duchenne muscular dystrophy. Nature Biotechnology, 2018, 36, 536-539.	9.4	345
59	Response to â€œUnexpected mutations after CRISPRâ€"Cas9 editing in vivoâ€• Nature Methods, 2018, 15, 239-240.	9.0	22
60	Functional Rescue of Dystrophin Deficiency in Mice Caused by Frameshift Mutations Using Campylobacter jejuni Cas9. Molecular Therapy, 2018, 26, 1529-1538.	3.7	67
61	Structural insights into the apo-structure of Cpf1 protein from Francisella novicida. Biochemical and Biophysical Research Communications, 2018, 498, 775-781.	1.0	6
62	Long Terminal Repeat CRISPR-CAR-Coupled â€œUniversalâ€•T Cells Mediate Potent Anti-leukemic Effects. Molecular Therapy, 2018, 26, 1215-1227.	3.7	104
63	DIG-seq: a genome-wide CRISPR off-target profiling method using chromatin DNA. Genome Research, 2018, 28, 1894-1900.	2.4	84
64	dCas9-mediated Nanoelectrokinetic Direct Detection of Target Gene for Liquid Biopsy. Nano Letters, 2018, 18, 7642-7650.	4.5	50
65	Web-based design and analysis tools for CRISPR base editing. BMC Bioinformatics, 2018, 19, 542.	1.2	127
66	Machine learning finds Cas9-edited genotypes. Nature Biomedical Engineering, 2018, 2, 892-893.	11.6	5
67	Towards therapeutic base editing. Nature Medicine, 2018, 24, 1493-1495.	15.2	6
68	Unexpected CRISPR on-target effects. Nature Biotechnology, 2018, 36, 703-704.	9.4	36
69	Directed evolution of CRISPR-Cas9 to increase its specificity. Nature Communications, 2018, 9, 3048.	5.8	357
70	Direct observation of DNA target searching and cleavage by CRISPR-Cas12a. Nature Communications, 2018, 9, 2777.	5.8	148
71	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
72	CRISPR-LbCpf1 prevents choroidal neovascularization in a mouse model of age-related macular degeneration. Nature Communications, 2018, 9, 1855.	5.8	71

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73	Precision genome engineering through adenine base editing in plants. Nature Plants, 2018, 4, 427-431.	4.7	227
74	Ma et al. reply. Nature, 2018, 560, E10-E23.	13.7	37
75	Generation of a Nrf2 homozygous knockout human embryonic stem cell line using CRISPR/Cas9. Stem Cell Research, 2017, 19, 46-48.	0.3	7
76	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
77	In vivo genome editing with a small Cas9 orthologue derived from Campylobacter jejuni. Nature Communications, 2017, 8, 14500.	5.8	539
78	CRISPR/Cpf1-mediated DNA-free plant genome editing. Nature Communications, 2017, 8, 14406.	5.8	386
79	Genome surgery using Cas9 ribonucleoproteins for the treatment of age-related macular degeneration. Genome Research, 2017, 27, 419-426.	2.4	136
80	Highly efficient RNA-guided base editing in mouse embryos. Nature Biotechnology, 2017, 35, 435-437.	9.4	330
81	Generation of cloned adult muscular pigs withÂmyostatin gene mutation by genetic engineering. RSC Advances, 2017, 7, 12541-12549.	1.7	55
82	Myofibroblast in the ligamentum flavum hypertrophic activity. European Spine Journal, 2017, 26, 2021-2030.	1.0	32
83	Genome-wide target specificities of CRISPR RNA-guided programmable deaminases. Nature Biotechnology, 2017, 35, 475-480.	9.4	239
84	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
85	Selective disruption of an oncogenic mutant allele by CRISPR/Cas9 induces efficient tumor regression. Nucleic Acids Research, 2017, 45, 7897-7908.	6.5	87
86	Digenome-seq web tool for profiling CRISPR specificity. Nature Methods, 2017, 14, 548-549.	9.0	31
87	CUT-PCR: CRISPR-mediated, ultrasensitive detection of target DNA using PCR. Oncogene, 2017, 36, 6823-6829.	2.6	84
88	Genome editing reveals a role for OCT4 in human embryogenesis. Nature, 2017, 550, 67-73.	13.7	315
89	Correction of a pathogenic gene mutation in human embryos. Nature, 2017, 548, 413-419.	13.7	781
90	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

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91	In situ functional dissection of RNA cis-regulatory elements by multiplex CRISPR-Cas9 genome engineering. Nature Communications, 2017, 8, 2109.	5.8	11
92	Fusion guide RNAs for orthogonal gene manipulation with Cas9 and Cpf1. Nature Communications, 2017, 8, 1723.	5.8	36
93	Therapeutic applications of CRISPR RNA-guided genome editing. Briefings in Functional Genomics, 2017, 16, 38-45.	1.3	26
94	Cas-analyzer: an online tool for assessing genome editing results using NGS data. Bioinformatics, 2017, 33, 286-288.	1.8	313
95	Failure to detect DNA-guided genome editing using Natronobacterium gregoryi Argonaute. Nature Biotechnology, 2017, 35, 17-18.	9.4	50
96	Rescue of high-specificity Cas9 variants using sgRNAs with matched 5â€™ nucleotides. Genome Biology, 2017, 18, 218.	3.8	73
97	Apancreatic pigs cloned using Pdx1-disrupted fibroblasts created via TALEN-mediated mutagenesis. Oncotarget, 2017, 8, 115480-115489.	0.8	12
98	DNA-Free Genetically Edited Grapevine and Apple Protoplast Using CRISPR/Cas9 Ribonucleoproteins. Frontiers in Plant Science, 2016, 7, 1904.	1.7	550
99	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
100	Fine-Tuning Next-Generation Genome Editing Tools. Trends in Biotechnology, 2016, 34, 562-574.	4.9	60
101	Bypassing GMO regulations with CRISPR gene editing. Nature Biotechnology, 2016, 34, 1014-1015.	9.4	67
102	Genome editing comes of age. Nature Protocols, 2016, 11, 1573-1578.	5.5	85
103	Knockout of the Ribonuclease Inhibitor Gene Leaves Human Cells Vulnerable to Secretory Ribonucleases. Biochemistry, 2016, 55, 6359-6362.	1.2	21
104	CRISPR/Cas9-induced knockout and knock-in mutations in Chlamydomonas reinhardtii. Scientific Reports, 2016, 6, 27810.	1.6	315
105	DNA-free two-gene knockout in Chlamydomonas reinhardtii via CRISPR-Cas9 ribonucleoproteins. Scientific Reports, 2016, 6, 30620.	1.6	253
106	Structural roles of guide RNAs in the nuclease activity of Cas9 endonuclease. Nature Communications, 2016, 7, 13350.	5.8	94
107	Targeted mutagenesis in mice by electroporation of Cpf1 ribonucleoproteins. Nature Biotechnology, 2016, 34, 807-808.	9.4	191
108	Genome-wide analysis reveals specificities of Cpf1 endonucleases in human cells. Nature Biotechnology, 2016, 34, 863-868.	9.4	612

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109	Genome-wide target specificities of CRISPR-Cas9 nucleases revealed by multiplex Digenome-seq. Genome Research, 2016, 26, 406-415.	2.4	184
110	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
111	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
112	Voices of biotech. Nature Biotechnology, 2016, 34, 270-275.	9.4	4
113	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
114	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
115	Measuring and Reducing Off-Target Activities of Programmable Nucleases Including CRISPR-Cas9. Molecules and Cells, 2015, 38, 475-481.	1.0	181
116	Digenome-seq: genome-wide profiling of CRISPR-Cas9 off-target effects in human cells. Nature Methods, 2015, 12, 237-243.	9.0	850
117	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
118	Gene inactivation using the CRISPR/Cas9 system in the nematode Pristionchus pacificus. Development Genes and Evolution, 2015, 225, 55-62.	0.4	109
119	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
120	Hematopoietic Signaling Mechanism Revealed from a Stem/Progenitor Cell Cistrome. Molecular Cell, 2015, 59, 62-74.	4.5	40
121	CRISPR germline engineeringâ€”the community speaks. Nature Biotechnology, 2015, 33, 478-486.	9.4	110
122	Non-GMO genetically edited crop plants. Trends in Biotechnology, 2015, 33, 489-491.	4.9	66
123	Efficient delivery of nuclease proteins for genome editing in human stem cells and primary cells. Nature Protocols, 2015, 10, 1842-1859.	5.5	113
124	DNA-free genome editing in plants with preassembled CRISPR-Cas9 ribonucleoproteins. Nature Biotechnology, 2015, 33, 1162-1164.	9.4	975
125	Efficient<i>PRNP</i>deletion in bovine genome using gene-editing technologies in bovine cells. Prion, 2015, 9, 278-291.	0.9	16
126	Cas-Designer: a web-based tool for choice of CRISPR-Cas9 target sites. Bioinformatics, 2015, 31, 4014-4016.	1.8	306

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127	Targeted Genome Editing for Crop Improvement. Plant Breeding and Biotechnology, 2015, 3, 283-290.	0.3	21
128	Production of CMAH Knockout Preimplantation Embryos Derived From Immortalized Porcine Cells Via TALE Nucleases. Molecular Therapy - Nucleic Acids, 2014, 3, e166.	2.3	5
129	Genome Engineering in Human Cells. Methods in Enzymology, 2014, 546, 93-118.	0.4	13
130	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
131	RNA-Guided Genome Editing in <i>Drosophila</i> with the Purified Cas9 Protein. G3: Genes, Genomes, Genetics, 2014, 4, 1291-1295.	0.8	44
132	A guide to genome engineering with programmable nucleases. Nature Reviews Genetics, 2014, 15, 321-334.	7.7	990
133	Enrichment of cells with TALEN-induced mutations using surrogate reporters. Methods, 2014, 69, 108-117.	1.9	21
134	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
135	Genotyping with CRISPR-Cas-derived RNA-guided endonucleases. Nature Communications, 2014, 5, 3157.	5.8	117
136	Highly efficient gene knockout in mice and zebrafish with RNA-guided endonucleases. Genome Research, 2014, 24, 125-131.	2.4	249
137	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
138	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
139	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
140	Analysis of off-target effects of CRISPR/Cas-derived RNA-guided endonucleases and nickases. Genome Research, 2014, 24, 132-141.	2.4	1,195
141	Microhomology-based choice of Cas9 nuclease target sites. Nature Methods, 2014, 11, 705-706.	9.0	336
142	Surrogate reporter-based enrichment of cells containing RNA-guided Cas9 nuclease-induced mutations. Nature Communications, 2014, 5, 3378.	5.8	123
143	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
144	Knockout mice created by TALEN-mediated gene targeting. Nature Biotechnology, 2013, 31, 23-24.	9.4	326

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145	Artificial transcription regulator as a tool for improvement of cellular property in Saccharomyces cerevisiae. Chemical Engineering Science, 2013, 103, 42-49.	1.9	5
146	TALEN-based knockout library for human microRNAs. Nature Structural and Molecular Biology, 2013, 20, 1458-1464.	3.6	74
147	Targeted genome engineering in human cells with the Cas9 RNA-guided endonuclease. Nature Biotechnology, 2013, 31, 230-232.	9.4	1,653
148	A library of TAL effector nucleases spanning the human genome. Nature Biotechnology, 2013, 31, 251-258.	9.4	344
149	TALENs and ZFNs are associated with different mutation signatures. Nature Methods, 2013, 10, 185-185.	9.0	90
150	Heritable Gene Knockout in <i>Caenorhabditis elegans</i> by Direct Injection of Cas9â€“sgRNA Ribonucleoproteins. Genetics, 2013, 195, 1177-1180.	1.2	237
151	Magnetic Separation and Antibiotics Selection Enable Enrichment of Cells with ZFN/TALEN-Induced Mutations. PLoS ONE, 2013, 8, e56476.	1.1	55
152	Targeted chromosomal duplications and inversions in the human genome using zinc finger nucleases. Genome Research, 2012, 22, 539-548.	2.4	155
153	Precision genome engineering with programmable DNA-nicking enzymes. Genome Research, 2012, 22, 1327-1333.	2.4	127
154	Mouse genetics: Catalogue and scissors. BMB Reports, 2012, 45, 686-692.	1.1	28
155	Surrogate reporters for enrichment of cells with nuclease-induced mutations. Nature Methods, 2011, 8, 941-943.	9.0	192
156	Preassembled zinc-finger arrays for rapid construction of ZFNs. Nature Methods, 2011, 8, 7-7.	9.0	77
157	Targeted genome engineering via zinc finger nucleases. Plant Biotechnology Reports, 2011, 5, 9-17.	0.9	23
158	Analysis of Targeted Chromosomal Deletions Induced by Zinc Finger Nucleases. Cold Spring Harbor Protocols, 2010, 2010, pdb.prot5477.	0.2	10
159	Site-specific DNA excision via engineered zinc finger nucleases. Trends in Biotechnology, 2010, 28, 445-446.	4.9	9
160	Genome editing with modularly assembled zinc-finger nucleases. Nature Methods, 2010, 7, 91-91.	9.0	88
161	Cooperativity and Specificity of Cys2His2 Zinc Finger Proteinâˆ’DNA Interactions: A Molecular Dynamics Simulation Study. Journal of Physical Chemistry B, 2010, 114, 7662-7671.	1.2	35
162	Targeted chromosomal deletions in human cells using zinc finger nucleases. Genome Research, 2010, 20, 81-89.	2.4	234

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163	Construction of Combinatorial Libraries that Encode Zinc Finger-Based Transcription Factors. Methods in Molecular Biology, 2010, 649, 133-147.	0.4	4
164	Targeted genome editing in human cells with zinc finger nucleases constructed via modular assembly. Genome Research, 2009, 19, 1279-1288.	2.4	403
165	Lipidâ€“Goldâ€Nanoparticle Hybridâ€Based Gene Delivery. Small, 2008, 4, 1651-1655.	5.2	60
166	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
167	Transduction of artificial transcriptional regulatory proteins into human cells. Nucleic Acids Research, 2008, 36, e103.	6.5	14
168	Novel Cancer Antiangiotherapy Using the VEGF Promoter-targeted Artificial Zinc-finger Protein and Oncolytic Adenovirus. Molecular Therapy, 2008, 16, 1033-1040.	3.7	53
169	Engineering of GAL1 promoter-driven expression system with artificial transcription factors. Biochemical and Biophysical Research Communications, 2006, 351, 412-417.	1.0	5
170	Artificial Transcription Factors Increase Production of Recombinant Antibodies in Chinese Hamster Ovary Cells. Biotechnology Letters, 2006, 28, 9-15.	1.1	25
171	One-step selection of artificial transcription factors using an in vivo screening system. Molecules and Cells, 2006, 21, 376-80.	1.0	9
172	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
173	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
174	Suppression of vascular endothelial growth factor expression at the transcriptional and post-transcriptional levels. Nucleic Acids Research, 2005, 33, e74-e74.	6.5	30
175	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
176	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
177	Human zinc fingers as building blocks in the construction of artificial transcription factors. Nature Biotechnology, 2003, 21, 275-280.	9.4	184
178	Phenotypic alteration of eukaryotic cells using randomized libraries of artificial transcription factors. Nature Biotechnology, 2003, 21, 1208-1214.	9.4	144
179	Toward a Functional Annotation of the Human Genome Using Artificial Transcription Factors. Genome Research, 2003, 13, 2708-2716.	2.4	15
180	Custom DNA-Binding Proteins and Artificial Transcription Factors. Current Topics in Medicinal Chemistry, 2003, 3, 645-657.	1.0	30

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181	Zinc Finger Proteins as Designer Transcription Factors. Journal of Biological Chemistry, 2000, 275, 8742-8748.	1.6	57
182	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
183	Transcriptional Repression by Zinc Finger Peptides. Journal of Biological Chemistry, 1997, 272, 29795-29800.	1.6	51
184	Ribonucleases Endowed with Specific Toxicity for Spermatogenic Layers. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1997, 118, 881-888.	0.7	10
185	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
186	Dibromobimane as a Fluorescent Crosslinking Reagent. Analytical Biochemistry, 1995, 225, 174-176.	1.1	38
187	Mechanism of Ribonuclease Cytotoxicity. Journal of Biological Chemistry, 1995, 270, 31097-31102.	1.6	88
188	Structural Basis for the Biological Activities of Bovine Seminal Ribonuclease. Journal of Biological Chemistry, 1995, 270, 10525-10530.	1.6	66
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