Jin-Soo Kim

List of Publications by Year in Descending Order

188 papers	18,872 citations	62 h-index	136 g-index
208 ext. papers	22,760 ext. citations	14.8 avg, IF	7.23 L-index

#	Paper	IF	Citations
188	Nuclear and mitochondrial DNA editing in human cells with zinc finger deaminases.. *Nature Communications*, **2022**, 13, 366	17.4	1
187	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,	11.5	3
186	The efficacy of CRISPR-mediated cytosine base editing with the RPS5a promoter in Arabidopsis thaliana. *Scientific Reports*, **2021**, 11, 8087	4.9	5
185	Base Editing in Progeria. *New England Journal of Medicine*, **2021**, 384, 1364-1366	59.2	0
184	PE-Designer and PE-Analyzer: web-based design and analysis tools for CRISPR prime editing. *Nucleic Acids Research*, **2021**, 49, W499-W504	20.1	14
183	ISSCR Guidelines for Stem Cell Research and Clinical Translation: The 2021 update. *Stem Cell Reports*, **2021**, 16, 1398-1408	8	27
182	Chloroplast and mitochondrial DNA editing in plants. *Nature Plants*, **2021**, 7, 899-905	11.5	16
181	Adenine base editor engineering reduces editing of bystander cytosines. *Nature Biotechnology*, **2021**, 39, 1426-1433	44.5	7
180	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	3	0
179	Identifying genome-wide off-target sites of CRISPR RNA-guided nucleases and deaminases with Digenome-seq. *Nature Protocols*, **2021**, 16, 1170-1192	18.8	4
178	Small-molecule inhibitors of histone deacetylase improve CRISPR-based adenine base editing. *Nucleic Acids Research*, **2021**, 49, 2390-2399	20.1	6
177	Mitochondrial DNA editing in mice with DddA-TALE fusion deaminases. *Nature Communications*, **2021**, 12, 1190	17.4	25
176	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	2.5	7
175	Production of MSTN-mutated cattle without exogenous gene integration using CRISPR-Cas9. *Biotechnology Journal*, **2021**, e2100198	5.6	3
174	Off-the-Shelf, Immune-Compatible Human Embryonic Stem Cells Generated Via CRISPR-Mediated Genome Editing. *Stem Cell Reviews and Reports*, **2021**, 17, 1053-1067	7.3	0
173	Profiling Genome-Wide Specificity of CRISPR-Cas9 Using Digenome-Seq. *Methods in Molecular Biology*, **2021**, 2162, 233-242	1.4	1
172	Web-Based CRISPR Toolkits: Cas-OFFinder, Cas-Designer, and Cas-Analyzer. *Methods in Molecular Biology*, **2021**, 2162, 23-33	1.4	5

171	Protein Kinase A Catalytic Subunit Is a Molecular Switch that Promotes the Pro-tumoral Function of Macrophages. *Cell Reports*, **2020**, 31, 107643	10.6	5
170	Recent advances in genome editing of stem cells for drug discovery and therapeutic application. *Pharmacology & Therapeutics*, **2020**, 209, 107501	13.9	31
169	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	9.5	28
168	CRISPR-Cas12a with an oAd Induces Precise and Cancer-Specific Genomic Reprogramming of EGFR and Efficient Tumor Regression. *Molecular Therapy*, **2020**, 28, 2286-2296	11.7	5
167	CRISPR-sub: Analysis of DNA substitution mutations caused by CRISPR-Cas9 in human cells. *Computational and Structural Biotechnology Journal*, **2020**, 18, 1686-1694	6.8	7
166	Genome-wide specificity of dCpf1 cytidine base editors. *Nature Communications*, **2020**, 11, 4072	17.4	7
165	The road ahead in genetics and genomics. *Nature Reviews Genetics*, **2020**, 21, 581-596	30.1	43
164	CRISPR/Cas9-mediated editing of 1-aminocyclopropane-1-carboxylate oxidase1 enhances Petunia flower longevity. *Plant Biotechnology Journal*, **2020**, 18, 287-297	11.6	46
163	Generation of early-flowering Chinese cabbage (Brassica rapa spp. pekinensis) through CRISPR/Cas9-mediated genome editing. *Plant Biotechnology Reports*, **2019**, 13, 491-499	2.5	16
162	Adenine base editors catalyze cytosine conversions in human cells. *Nature Biotechnology*, **2019**, 37, 1145-1148	44.5	51
161	A zero-background CRISPR binary vector system for construction of sgRNA libraries in plant functional genomics applications. *Plant Biotechnology Reports*, **2019**, 13, 543-551	2.5	2
160	CRISPR-Pass: Gene Rescue of Nonsense Mutations Using Adenine Base Editors. *Molecular Therapy*, **2019**, 27, 1364-1371	11.7	21
159	CRISPR-Cas9 Screening of Kaposi's Sarcoma-Associated Herpesvirus-Transformed Cells Identifies XPO1 as a Vulnerable Target of Cancer Cells. *MBio*, **2019**, 10,	7.8	12
158	Visualizing Microglia with a Fluorescence Turn-On Ugt1a7c Substrate. *Angewandte Chemie*, **2019**, 131, 8056-8060	3.6	2
157	Evaluating and Enhancing Target Specificity of Gene-Editing Nucleases and Deaminases. *Annual Review of Biochemistry*, **2019**, 88, 191-220	29.1	69
156	Improving CRISPR Genome Editing by Engineering Guide RNAs. *Trends in Biotechnology*, **2019**, 37, 870-881	15.1	52
155	Genome-wide target specificity of CRISPR RNA-guided adenine base editors. *Nature Biotechnology*, **2019**, 37, 430-435	44.5	98
154	Imaging inflammation using an activated macrophage probe with Slc18b1 as the activation-selective gating target. *Nature Communications*, **2019**, 10, 1111	17.4	32

153	CRISPR-Cas9-mediated therapeutic editing of ameliorates the disease phenotypes in a mouse model of Leber congenital amaurosis. *Science Advances*, **2019**, 5, eaax1210	14.3	44
152	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	2.5	1
151	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells. *PLoS ONE*, **2019**, 14, e0225740	3.7	5
150	CRISPR/Cas9 searches for a protospacer adjacent motif by lateral diffusion. *EMBO Journal*, **2019**, 38,	13	45
149	Long-Term Effects of In Vivo Genome Editing in the Mouse Retina Using Campylobacter jejuni Cas9 Expressed via Adeno-Associated Virus. *Molecular Therapy*, **2019**, 27, 130-136	11.7	32
148	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells **2019**, 14, e0225740		
147	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells **2019**, 14, e0225740		
146	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells **2019**, 14, e0225740		
145	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells **2019**, 14, e0225740		
144	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells **2019**, 14, e0225740		
143	Generation of targeted homozygosity in the genome of human induced pluripotent stem cells **2019**, 14, e0225740		
142	CRISPR RNAs trigger innate immune responses in human cells. *Genome Research*, **2018**,	9.7	113
141	Precision genome engineering through adenine and cytosine base editing. *Nature Plants*, **2018**, 4, 148-151	11.5	47
140	Microbial warfare against viruses. *Science*, **2018**, 359, 993	33.3	4
139	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	11.5	24
138	Arrayed CRISPR screen with image-based assay reliably uncovers host genes required for coxsackievirus infection. *Genome Research*, **2018**, 28, 859-868	9.7	26
137	Adenine base editing in mouse embryos and an adult mouse model of Duchenne muscular dystrophy. *Nature Biotechnology*, **2018**, 36, 536-539	44.5	238
136	Response to "Unexpected mutations after CRISPR-Cas9 editing in vivo". *Nature Methods*, **2018**, 15, 239-240	25.6	22

135	Functional Rescue of Dystrophin Deficiency in Mice Caused by Frameshift Mutations Using Campylobacter jejuni Cas9. *Molecular Therapy*, **2018**, 26, 1529-1538	11.7	45
134	Structural insights into the apo-structure of Cpf1 protein from Francisella novicida. *Biochemical and Biophysical Research Communications*, **2018**, 498, 775-781	3.4	4
133	Long Terminal Repeat CRISPR-CAR-Coupled "Universal" T Cells Mediate Potent Anti-leukemic Effects. *Molecular Therapy*, **2018**, 26, 1215-1227	11.7	68
132	Directed evolution of CRISPR-Cas9 to increase its specificity. *Nature Communications*, **2018**, 9, 3048	17.4	220
131	Direct observation of DNA target searching and cleavage by CRISPR-Cas12a. *Nature Communications*, **2018**, 9, 2777	17.4	72
130	Sometimes you see the scooper, and sometimes you get scooped: How to turn both into something good. *PLoS Biology*, **2018**, 16, e2006843	9.7	3
129	CRISPR-LbCpf1 prevents choroidal neovascularization in a mouse model of age-related macular degeneration. *Nature Communications*, **2018**, 9, 1855	17.4	52
128	Precision genome engineering through adenine base editing in plants. *Nature Plants*, **2018**, 4, 427-431	11.5	158
127	Ma et al. reply. *Nature*, **2018**, 560, E10-E23	50.4	27
126	DIG-seq: a genome-wide CRISPR off-target profiling method using chromatin DNA. *Genome Research*, **2018**, 28, 1894-1900	9.7	47
125	dCas9-mediated Nanoelectrokinetic Direct Detection of Target Gene for Liquid Biopsy. *Nano Letters*, **2018**, 18, 7642-7650	11.5	32
124	Web-based design and analysis tools for CRISPR base editing. *BMC Bioinformatics*, **2018**, 19, 542	3.6	70
123	Machine learning finds Cas9-edited genotypes. *Nature Biomedical Engineering*, **2018**, 2, 892-893	19	3
122	Towards therapeutic base editing. *Nature Medicine*, **2018**, 24, 1493-1495	50.5	6
121	Generation of a Nrf2 homozygous knockout human embryonic stem cell line using CRISPR/Cas9. *Stem Cell Research*, **2017**, 19, 46-48	1.6	4
120	A homozygous Keap1-knockout human embryonic stem cell line generated using CRISPR/Cas9 mediates gene targeting. *Stem Cell Research*, **2017**, 19, 52-54	1.6	7
119	In vivo genome editing with a small Cas9 orthologue derived from Campylobacter jejuni. *Nature Communications*, **2017**, 8, 14500	17.4	368
118	CRISPR/Cpf1-mediated DNA-free plant genome editing. *Nature Communications*, **2017**, 8, 14406	17.4	274

117	Genome surgery using Cas9 ribonucleoproteins for the treatment of age-related macular degeneration. *Genome Research*, **2017**, 27, 419-426	9.7	100
116	Highly efficient RNA-guided base editing in mouse embryos. *Nature Biotechnology*, **2017**, 35, 435-437	44.5	269
115	Generation of cloned adult muscular pigs with myostatin gene mutation by genetic engineering. *RSC Advances*, **2017**, 7, 12541-12549	3.7	39
114	Myofibroblast in the ligamentum flavum hypertrophic activity. *European Spine Journal*, **2017**, 26, 2021-2030	2.7	20
113	Genome-wide target specificities of CRISPR RNA-guided programmable deaminases. *Nature Biotechnology*, **2017**, 35, 475-480	44.5	168
112	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	5.4	27
111	Selective disruption of an oncogenic mutant allele by CRISPR/Cas9 induces efficient tumor regression. *Nucleic Acids Research*, **2017**, 45, 7897-7908	20.1	54
110	Digenome-seq web tool for profiling CRISPR specificity. *Nature Methods*, **2017**, 14, 548-549	21.6	18
109	CUT-PCR: CRISPR-mediated, ultrasensitive detection of target DNA using PCR. *Oncogene*, **2017**, 36, 6823-6829	6.8	55
108	Genome editing reveals a role for OCT4 in human embryogenesis. *Nature*, **2017**, 550, 67-73	50.4	210
107	Correction of a pathogenic gene mutation in human embryos. *Nature*, **2017**, 548, 413-419	50.4	567
106	GATA Factor-Regulated Samd14 Enhancer Confers Red Blood Cell Regeneration and Survival in Severe Anemia. *Developmental Cell*, **2017**, 42, 213-225.e4	10.2	17
105	In situ functional dissection of RNA cis-regulatory elements by multiplex CRISPR-Cas9 genome engineering. *Nature Communications*, **2017**, 8, 2109	17.4	7
104	Fusion guide RNAs for orthogonal gene manipulation with Cas9 and Cpf1. *Nature Communications*, **2017**, 8, 1723	17.4	31
103	Therapeutic applications of CRISPR RNA-guided genome editing. *Briefings in Functional Genomics*, **2017**, 16, 38-45	4.9	16
102	Cas-analyzer: an online tool for assessing genome editing results using NGS data. *Bioinformatics*, **2017**, 33, 286-288	7.2	198
101	Rescue of high-specificity Cas9 variants using sgRNAs with matched 5Snucleotides. *Genome Biology*, **2017**, 18, 218	18.3	52
100	Apancreatic pigs cloned using Pdx1-disrupted fibroblasts created via TALEN-mediated mutagenesis. *Oncotarget*, **2017**, 8, 115480-115489	3.3	11

99	Knockout of the Ribonuclease Inhibitor Gene Leaves Human Cells Vulnerable to Secretory Ribonucleases. *Biochemistry*, **2016**, 55, 6359-6362	3.2	14
98	CRISPR/Cas9-induced knockout and knock-in mutations in Chlamydomonas reinhardtii. *Scientific Reports*, **2016**, 6, 27810	4.9	227
97	DNA-free two-gene knockout in Chlamydomonas reinhardtii via CRISPR-Cas9 ribonucleoproteins. *Scientific Reports*, **2016**, 6, 30620	4.9	188
96	Structural roles of guide RNAs in the nuclease activity of Cas9 endonuclease. *Nature Communications*, **2016**, 7, 13350	17.4	68
95	Targeted mutagenesis in mice by electroporation of Cpf1 ribonucleoproteins. *Nature Biotechnology* , **2016**, 34, 807-8	44.5	151
94	Genome-wide analysis reveals specificities of Cpf1 endonucleases in human cells. *Nature Biotechnology*, **2016**, 34, 863-8	44.5	445
93	Genome-wide target specificities of CRISPR-Cas9 nucleases revealed by multiplex Digenome-seq. *Genome Research*, **2016**, 26, 406-15	9.7	141
92	Site-directed mutagenesis in Petunia□hybrida protoplast system using direct delivery of purified recombinant Cas9 ribonucleoproteins. *Plant Cell Reports*, **2016**, 35, 1535-44	5.1	131
91	Cas-Database: web-based genome-wide guide RNA library design for gene knockout screens using CRISPR-Cas9. *Bioinformatics*, **2016**, 32, 2017-23	7.2	28
90	Voices of biotech. *Nature Biotechnology*, **2016**, 34, 270-5	44.5	3
89	Failure to detect DNA-guided genome editing using Natronobacterium gregoryi Argonaute. *Nature Biotechnology*, **2016**, 35, 17-18	44.5	35
88	SIRT1-mediated downregulation of p27Kip1 is essential for overcoming contact inhibition of Kaposi's sarcoma-associated herpesvirus transformed cells. *Oncotarget*, **2016**, 7, 75698-75711	3.3	12
87	DNA-Free Genetically Edited Grapevine and Apple Protoplast Using CRISPR/Cas9 Ribonucleoproteins. *Frontiers in Plant Science*, **2016**, 7, 1904	6.2	351
86	A simple, flexible and high-throughput cloning system for plant genome editing via CRISPR-Cas system. *Journal of Integrative Plant Biology*, **2016**, 58, 705-12	8.3	44
85	Fine-Tuning Next-Generation Genome Editing Tools. *Trends in Biotechnology*, **2016**, 34, 562-574	15.1	43
84	Bypassing GMO regulations with CRISPR gene editing. *Nature Biotechnology*, **2016**, 34, 1014-1015	44.5	49
83	Genome editing comes of age. *Nature Protocols*, **2016**, 11, 1573-8	18.8	60
82	Site-directed mutagenesis in Arabidopsis thaliana using dividing tissue-targeted RGEN of the CRISPR/Cas system to generate heritable null alleles. *Planta*, **2015**, 241, 271-84	4.7	121

81	Gene inactivation using the CRISPR/Cas9 system in the nematode Pristionchus pacificus. *Development Genes and Evolution*, **2015**, 225, 55-62	1.8	88
80	Functional Correction of Large Factor VIII Gene Chromosomal Inversions in Hemophilia A Patient-Derived iPSCs Using CRISPR-Cas9. *Cell Stem Cell*, **2015**, 17, 213-20	18	214
79	Hematopoietic Signaling Mechanism Revealed from a Stem/Progenitor Cell Cistrome. *Molecular Cell*, **2015**, 59, 62-74	17.6	29
78	CRISPR germline engineering--the community speaks. *Nature Biotechnology*, **2015**, 33, 478-86	44.5	91
77	Non-GMO genetically edited crop plants. *Trends in Biotechnology*, **2015**, 33, 489-91	15.1	56
76	Efficient delivery of nuclease proteins for genome editing in human stem cells and primary cells. *Nature Protocols*, **2015**, 10, 1842-59	18.8	88
75	DNA-free genome editing in plants with preassembled CRISPR-Cas9 ribonucleoproteins. *Nature Biotechnology*, **2015**, 33, 1162-4	44.5	709
74	Efficient PRNP deletion in bovine genome using gene-editing technologies in bovine cells. *Prion*, **2015**, 9, 278-91	2.3	8
73	Cas-Designer: a web-based tool for choice of CRISPR-Cas9 target sites. *Bioinformatics*, **2015**, 31, 4014-6	7.2	149
72	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**, 1, 14057	6.4	41
71	Measuring and Reducing Off-Target Activities of Programmable Nucleases Including CRISPR-Cas9. *Molecules and Cells*, **2015**, 38, 475-81	3.5	144
70	Digenome-seq: genome-wide profiling of CRISPR-Cas9 off-target effects in human cells. *Nature Methods*, **2015**, 12, 237-43, 1 p following 243	21.6	652
69	Targeted Genome Editing for Crop Improvement. *Plant Breeding and Biotechnology*, **2015**, 3, 283-290	1.2	18
68	A guide to genome engineering with programmable nucleases. *Nature Reviews Genetics*, **2014**, 15, 321-34	30.1	853
67	Enrichment of cells with TALEN-induced mutations using surrogate reporters. *Methods*, **2014**, 69, 108-17	4.6	17
66	Cas-OFFinder: a fast and versatile algorithm that searches for potential off-target sites of Cas9 RNA-guided endonucleases. *Bioinformatics*, **2014**, 30, 1473-5	7.2	1015
65	Genotyping with CRISPR-Cas-derived RNA-guided endonucleases. *Nature Communications*, **2014**, 5, 3157	17.4	100
64	Highly efficient gene knockout in mice and zebrafish with RNA-guided endonucleases. *Genome Research*, **2014**, 24, 125-31	9.7	215

63	Hepatitis C virus entry is impaired by claudin-1 downregulation in diacylglycerol acyltransferase-1-deficient cells. *Journal of Virology*, **2014**, 88, 9233-44	6.6	26
62	Highly efficient RNA-guided genome editing in human cells via delivery of purified Cas9 ribonucleoproteins. *Genome Research*, **2014**, 24, 1012-9	9.7	1085
61	Targeted gene knockout in chickens mediated by TALENs. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 12716-21	11.5	113
60	Analysis of off-target effects of CRISPR/Cas-derived RNA-guided endonucleases and nickases. *Genome Research*, **2014**, 24, 132-41	9.7	966
59	Microhomology-based choice of Cas9 nuclease target sites. *Nature Methods*, **2014**, 11, 705-6	21.6	258
58	Surrogate reporter-based enrichment of cells containing RNA-guided Cas9 nuclease-induced mutations. *Nature Communications*, **2014**, 5, 3378	17.4	92
57	Production of CMAH Knockout Preimplantation Embryos Derived From Immortalized Porcine Cells Via TALE Nucleases. *Molecular Therapy - Nucleic Acids*, **2014**, 3, e166	10.7	3
56	Genome engineering in human cells. *Methods in Enzymology*, **2014**, 546, 93-118	1.7	10
55	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, 9253-8	11.5	113
54	RNA-guided genome editing in Drosophila with the purified Cas9 protein. *G3: Genes, Genomes, Genetics*, **2014**, 4, 1291-5	3.2	36
53	Production of Mutated Porcine Embryos Using Zinc Finger Nucleases and a Reporter-based Cell Enrichment System. *Asian-Australasian Journal of Animal Sciences*, **2014**, 27, 324-9	2.4	3
52	Knockout mice created by TALEN-mediated gene targeting. *Nature Biotechnology*, **2013**, 31, 23-4	44.5	295
51	Artificial transcription regulator as a tool for improvement of cellular property in Saccharomyces cerevisiae. *Chemical Engineering Science*, **2013**, 103, 42-49	4.4	5
50	TALEN-based knockout library for human microRNAs. *Nature Structural and Molecular Biology*, **2013** , 20, 1458-64	17.6	64
49	Targeted genome engineering in human cells with the Cas9 RNA-guided endonuclease. *Nature Biotechnology*, **2013**, 31, 230-2	44.5	1369
48	A library of TAL effector nucleases spanning the human genome. *Nature Biotechnology*, **2013**, 31, 251-8	44.5	289
47	TALENs and ZFNs are associated with different mutation signatures. *Nature Methods*, **2013**, 10, 185	21.6	80
46	Heritable gene knockout in Caenorhabditis elegans by direct injection of Cas9-sgRNA ribonucleoproteins. *Genetics*, **2013**, 195, 1177-80	4	199

45	Magnetic separation and antibiotics selection enable enrichment of cells with ZFN/TALEN-induced mutations. *PLoS ONE*, **2013**, 8, e56476	3.7	50
44	Precision genome engineering with programmable DNA-nicking enzymes. *Genome Research*, **2012**, 22, 1327-33	9.7	117
43	Targeted chromosomal duplications and inversions in the human genome using zinc finger nucleases. *Genome Research*, **2012**, 22, 539-48	9.7	137
42	Mouse genetics: catalogue and scissors. *BMB Reports*, **2012**, 45, 686-92	5.5	25
41	Surrogate reporters for enrichment of cells with nuclease-induced mutations. *Nature Methods*, **2011**, 8, 941-3	21.6	164
40	Preassembled zinc-finger arrays for rapid construction of ZFNs. *Nature Methods*, **2011**, 8, 7	21.6	71
39	Targeted genome engineering via zinc finger nucleases. *Plant Biotechnology Reports*, **2011**, 5, 9-17	2.5	19
38	Genome editing with modularly assembled zinc-finger nucleases. *Nature Methods*, **2010**, 7, 91; author reply 91-2	21.6	79
37	Cooperativity and specificity of Cys2His2 zinc finger protein-DNA interactions: a molecular dynamics simulation study. *Journal of Physical Chemistry B*, **2010**, 114, 7662-71	3.4	33
36	Targeted chromosomal deletions in human cells using zinc finger nucleases. *Genome Research*, **2010**, 20, 81-9	9.7	206
35	Analysis of targeted chromosomal deletions induced by zinc finger nucleases. *Cold Spring Harbor Protocols*, **2010**, 2010, pdb.prot5477	1.2	9
34	Site-specific DNA excision via engineered zinc finger nucleases. *Trends in Biotechnology*, **2010**, 28, 445-6	15.1	7
33	Construction of combinatorial libraries that encode zinc finger-based transcription factors. *Methods in Molecular Biology*, **2010**, 649, 133-47	1.4	2
32	Targeted genome editing in human cells with zinc finger nucleases constructed via modular assembly. *Genome Research*, **2009**, 19, 1279-88	9.7	344
31	Transduction of artificial transcriptional regulatory proteins into human cells. *Nucleic Acids Research*, **2008**, 36, e103	20.1	14
30	Novel cancer antiangiotherapy using the VEGF promoter-targeted artificial zinc-finger protein and oncolytic adenovirus. *Molecular Therapy*, **2008**, 16, 1033-40	11.7	47
29	Lipid-gold-nanoparticle hybrid-based gene delivery. *Small*, **2008**, 4, 1651-5	11	57
28	Engineering of GAL1 promoter-driven expression system with artificial transcription factors. *Biochemical and Biophysical Research Communications*, **2006**, 351, 412-7	3.4	5

27	Artificial transcription factors increase production of recombinant antibodies in Chinese hamster ovary cells. *Biotechnology Letters*, **2006**, 28, 9-15	3	19
26	One-step selection of artificial transcription factors using an in vivo screening system. *Molecules and Cells*, **2006**, 21, 376-80	3.5	8
25	Identification and use of zinc finger transcription factors that increase production of recombinant proteins in yeast and mammalian cells. *Biotechnology Progress*, **2005**, 21, 664-70	2.8	22
24	Suppression of vascular endothelial growth factor expression at the transcriptional and post-transcriptional levels. *Nucleic Acids Research*, **2005**, 33, e74	20.1	26
23	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, 21545-52	5.4	20
22	Phenotypic alteration and target gene identification using combinatorial libraries of zinc finger proteins in prokaryotic cells. *Journal of Bacteriology*, **2005**, 187, 5496-9	3.5	41
21	Induction and characterization of taxol-resistance phenotypes with a transiently expressed artificial transcriptional activator library. *Nucleic Acids Research*, **2004**, 32, e116	20.1	17
20	Custom DNA-binding proteins and artificial transcription factors. *Current Topics in Medicinal Chemistry*, **2003**, 3, 645-57	3	25
19	Analysis of the effect of aging on the response to hypoxia by cDNA microarray. *Mechanisms of Ageing and Development*, **2003**, 124, 941-9	5.6	25
18	Human zinc fingers as building blocks in the construction of artificial transcription factors. *Nature Biotechnology*, **2003**, 21, 275-80	44.5	163
17	Phenotypic alteration of eukaryotic cells using randomized libraries of artificial transcription factors. *Nature Biotechnology*, **2003**, 21, 1208-14	44.5	127
16	Toward a functional annotation of the human genome using artificial transcription factors. *Genome Research*, **2003**, 13, 2708-16	9.7	13
15	Zinc finger proteins as designer transcription factors. *Journal of Biological Chemistry*, **2000**, 275, 8742-8	5.4	48
14	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, 2812-7	11.5	209
13	Transcriptional repression by zinc finger peptides. Exploring the potential for applications in gene therapy. *Journal of Biological Chemistry*, **1997**, 272, 29795-800	5.4	45
12	Ribonucleases endowed with specific toxicity for spermatogenic layers. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1997**, 118, 881-888	2.3	8
11	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, 3616-20	11.5	56
10	Mechanism of ribonuclease cytotoxicity. *Journal of Biological Chemistry*, **1995**, 270, 31097-102	5.4	72

9	Structural basis for the biological activities of bovine seminal ribonuclease. *Journal of Biological Chemistry*, **1995**, 270, 10525-30	5.4	59
8	Dibromobimane as a fluorescent crosslinking reagent. *Analytical Biochemistry*, **1995**, 225, 174-6	3.1	30
7	Peptide tags for a dual affinity fusion system. *Analytical Biochemistry*, **1994**, 219, 165-6	3.1	24
6	A misfolded but active dimer of bovine seminal ribonuclease. *FEBS Journal*, **1994**, 224, 109-14		16
5	Ribonuclease S-peptide as a carrier in fusion proteins. *Protein Science*, **1993**, 2, 348-56	6.3	154
4	DNA-dependent RNA cleavage by the Natronobacterium gregoryi Argonaute		9
3	Questioning unexpected CRISPR off-target mutations in vivo		5
2	FREQUENT GENE CONVERSION IN HUMAN EMBRYOS INDUCED BY DOUBLE STRAND BREAKS		12
1	Web-based design and analysis tools for CRISPR base editing		2