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List of Articles by Year in descending order

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104

PR articles

30,898

PR citations

20596

57

PR h-index

32680

99

g-index

114

documents

37093

doc citations

17579

64

h-index

44251

citing authors

#	ARTICLE	IF	CITATIONS
1	Gene editing without exÂvivo culture evades genotoxicity in human hematopoietic stem cells. Cell Stem Cell, 2025, 32, 191-208.e11.	16.4	20
2	High-resolution CTCF footprinting reveals impact of chromatin state on cohesin extrusion. Nature Communications, 2025, 16, .	13.7	5
3	Genetic predisposition to neuroblastoma results from a regulatory polymorphism that promotes the adrenergic cell state. Journal of Clinical Investigation, 2023, 133, .	10.6	11
4	Enhancing CRISPR prime editing by reducing misfolded pegRNA interactions. ELife, 2023, 12, .	1.6	11
5	CRISPR-Cas9 treatment partially restores amyloid-Î² 42/40 in human fibroblasts with the Alzheimerâ€™s disease PSEN1 M146L mutation. Molecular Therapy - Nucleic Acids, 2022, 28, 450-461.	5.5	43
6	Genome-wide functional perturbation of human microsatellite repeats using engineered zinc finger transcription factors. Cell Genomics, 2022, 2, 100119.	6.8	9
7	Engineered CRISPR prime editors with compact, untethered reverse transcriptases. Nature Biotechnology, 2022, 41, 337-343.	29.8	81
8	A Code of Ethics for Gene Drive Research. CRISPR Journal, 2021, 4, 19-24.	3.5	38
9	PrimeDesign software for rapid and simplified design of prime editing guide RNAs. Nature Communications, 2021, 12, .	13.7	165
10	Scalable characterization of the PAM requirements of CRISPRâ€™Cas enzymes using HT-PAMDA. Nature Protocols, 2021, 16, 1511-1547.	14.4	46
11	Analysis of off-target effects in CRISPR-based gene drives in the human malaria mosquito. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.5	34
12	CRISPR prime editing with ribonucleoprotein complexes in zebrafish and primary human cells. Nature Biotechnology, 2021, 40, 189-193.	29.8	189
13	Augmenting and directing long-range CRISPR-mediated activation in human cells. Nature Methods, 2021, 18, 1075-1081.	24.6	29
14	Defining genome-wide CRISPRâ€™Cas genome-editing nuclease activity with GUIDE-seq. Nature Protocols, 2021, 16, 5592-5615.	14.4	76
15	Zebrafish <i>dscaml1</i> Deficiency Impairs Retinal Patterning and Oculomotor Function. Journal of Neuroscience, 2020, 40, 143-158.	3.7	25
16	Cell-based artificial APC resistant to lentiviral transduction for efficient generation of CAR-T cells from various cell sources. , 2020, 8, e000990.		25
17	Mutant Allele-Specific CRISPR Disruption in DYT1 Dystonia Fibroblasts Restores Cell Function. Molecular Therapy - Nucleic Acids, 2020, 21, 1-12.	5.5	13
18	A dual-deaminase CRISPR base editor enables concurrent adenine and cytosine editing. Nature Biotechnology, 2020, 38, 861-864.	29.8	228

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19	Therapeutic base editing of human hematopoietic stem cells. <i>Nature Medicine</i> , 2020, 26, 535-541.	33.0	269
20	Disruption of the kringle 1 domain of prothrombin leads to late onset mortality in zebrafish. <i>Scientific Reports</i> , 2020, 10, .	3.4	20
21	Technologies and Computational Analysis Strategies for CRISPR Applications. <i>Molecular Cell</i> , 2020, 79, 11-29.	13.3	41
22	Optimization of AsCas12a for combinatorial genetic screens in human cells. <i>Nature Biotechnology</i> , 2020, 39, 94-104.	29.8	199
23	CRISPR C-to-G base editors for inducing targeted DNA transversions in human cells. <i>Nature Biotechnology</i> , 2020, 39, 41-46.	29.8	498
24	Activities and specificities of <sc>CRISPR</sc>/Cas9 and Cas12a nucleases for targeted mutagenesis in maize. <i>Plant Biotechnology Journal</i> , 2019, 17, 362-372.	8.8	237
25	Allele-specific gene editing prevents deafness in a model of dominant progressive hearing loss. <i>Nature Medicine</i> , 2019, 25, 1123-1130.	33.0	186
26	CRISPR DNA base editors with reduced RNA off-target and self-editing activities. <i>Nature Biotechnology</i> , 2019, 37, 1041-1048.	29.8	312
27	High levels of AAV vector integration into CRISPR-induced DNA breaks. <i>Nature Communications</i> , 2019, 10, .	13.7	386
28	Transcriptome-wide off-target RNA editing induced by CRISPR-guided DNA base editors. <i>Nature</i> , 2019, 569, 433-437.	37.9	582
29	Engineered CRISPRâ€Cas12a variants with increased activities and improved targeting ranges for gene, epigenetic and base editing. <i>Nature Biotechnology</i> , 2019, 37, 276-282.	29.8	634
30	CRISPResso2 provides accurate and rapid genome editing sequence analysis. <i>Nature Biotechnology</i> , 2019, 37, 224-226.	29.8	1,541
31	Allele-Specific CRISPR-Cas9 Genome Editing of the Single-Base P23H Mutation for Rhodopsin-Associated Dominant Retinitis Pigmentosa. <i>CRISPR Journal</i> , 2018, 1, 55-64.	3.5	114
32	Impact of Genetic Variation on CRISPR-Cas Targeting. <i>CRISPR Journal</i> , 2018, 1, 159-170.	3.5	33
33	Gene therapy comes of age. <i>Science</i> , 2018, 359, .	36.2	1,269
34	Prediction of off-target activities for the end-to-end design of CRISPR guide RNAs. <i>Nature Biomedical Engineering</i> , 2018, 2, 38-47.	22.4	305
35	Response to â€œUnexpected mutations after CRISPRâ€Cas9 editing in vivoâ€: <i>Nature Methods</i> , 2018, 15, 238-239.	24.6	26
36	CRISPR/Cas9 Mediated Disruption of the Swedish APP Allele as a Therapeutic Approach for Early-Onset Alzheimerâ€™s Disease. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 11, 429-440.	5.5	169

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37	CRISPR-SURF: discovering regulatory elements by deconvolution of CRISPR tiling screen data. <i>Nature Methods</i> , 2018, 15, 992-993.	24.6	42
38	In vivo CRISPR editing with no detectable genome-wide off-target mutations. <i>Nature</i> , 2018, 561, 416-419.	37.9	303
39	Efficient CRISPR/Cas9-mediated editing of trinucleotide repeat expansion in myotonic dystrophy patient-derived iPS and myogenic cells. <i>Nucleic Acids Research</i> , 2018, 46, 8275-8298.	15.5	93
40	An APOBEC3A-Cas9 base editor with minimized bystander and off-target activities. <i>Nature Biotechnology</i> , 2018, 36, 977-982.	29.8	413
41	Temporal and Spatial Post-Transcriptional Regulation of Zebrafish <i>tie1</i> mRNA by Long Noncoding RNA During Brain Vascular Assembly. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 1562-1575.	6.0	20
42	CIRCLE-seq: a highly sensitive in vitro screen for genome-wide CRISPR-Cas9 nuclease off-targets. <i>Nature Methods</i> , 2017, 14, 607-614.	24.6	765
43	Genome editing of factor X in zebrafish reveals unexpected tolerance of severe defects in the common pathway. <i>Blood</i> , 2017, 130, 666-676.	4.2	32
44	Inducible and multiplex gene regulation using CRISPR-Cpf1-based transcription factors. <i>Nature Methods</i> , 2017, 14, 1163-1166.	24.6	200
45	Enhanced proofreading governs CRISPR-Cas9 targeting accuracy. <i>Nature</i> , 2017, 550, 407-410.	37.9	1,115
46	Isocitrate Dehydrogenase Mutations Confer Dasatinib Hypersensitivity and SRC Dependence in Intrahepatic Cholangiocarcinoma. <i>Cancer Discovery</i> , 2016, 6, 727-739.	25.1	152
47	Defining and improving the genome-wide specificities of CRISPR-Cas9 nucleases. <i>Nature Reviews Genetics</i> , 2016, 17, 300-312.	47.0	457
48	Open-source guideseq software for analysis of GUIDE-seq data. <i>Nature Biotechnology</i> , 2016, 34, 483-483.	29.8	71
49	Genome-wide specificities of CRISPR-Cas Cpf1 nucleases in human cells. <i>Nature Biotechnology</i> , 2016, 34, 869-874.	29.8	659
50	High-fidelity CRISPR-Cas9 nucleases with no detectable genome-wide off-target effects. <i>Nature</i> , 2016, 529, 490-495.	37.9	2,517
51	Genome Editing in Human Cells Using CRISPR/Cas Nucleases. <i>Current Protocols in Molecular Biology</i> , 2015, 112, .	0.0	12
52	Accelerating research through reagent repositories: the genome editing example. <i>Genome Biology</i> , 2015, 16, .	8.1	7
53	Dimeric CRISPR RNA-Guided FokI-dCas9 Nucleases Directed by Truncated gRNAs for Highly Specific Genome Editing. <i>Human Gene Therapy</i> , 2015, 26, 425-431.	3.2	133
54	Fanconi Anemia Gene Editing by the CRISPR/Cas9 System. <i>Human Gene Therapy</i> , 2015, 26, 114-126.	3.2	107

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55	Chromatin regulation at the frontier of synthetic biology. <i>Nature Reviews Genetics</i> , 2015, 16, 159-171.	47.0	99
56	Standards needed for gene-editing errors. <i>Nature</i> , 2015, 523, 158-158.	37.9	19
57	Engineered CRISPR-Cas9 nucleases with altered PAM specificities. <i>Nature</i> , 2015, 523, 481-485.	37.9	1,597
58	Context influences on TALE DNA binding revealed by quantitative profiling. <i>Nature Communications</i> , 2015, 6, .	13.7	33
59	Rescue of DNA-PK Signaling and T-Cell Differentiation by Targeted Genome Editing in a <i>prkdc</i> Deficient iPSC Disease Model. <i>PLoS Genetics</i> , 2015, 11, e1005239.	3.2	17
60	Targeted disruption of DNMT1, DNMT3A and DNMT3B in human embryonic stem cells. <i>Nature Genetics</i> , 2015, 47, 469-478.	25.2	466
61	Broadening the targeting range of <i>Staphylococcus aureus</i> CRISPR-Cas9 by modifying PAM recognition. <i>Nature Biotechnology</i> , 2015, 33, 1293-1298.	29.8	590
62	Continuous directed evolution of DNA-binding proteins to improve TALEN specificity. <i>Nature Methods</i> , 2015, 12, 939-942.	24.6	108
63	Hypoxia drives transient site-specific copy gain and drug-resistant gene expression. <i>Genes and Development</i> , 2015, 29, 1018-1031.	4.6	82
64	A Zebrafish Model of Myelodysplastic Syndrome Produced through <i>tet2</i> Genomic Editing. <i>Molecular and Cellular Biology</i> , 2015, 35, 789-804.	2.5	62
65	Factor X Mutant Zebrafish Tolerate a Severe Hemostatic Defect in Early Development Yet Develop Lethal Hemorrhage in Adulthood. <i>Blood</i> , 2015, 126, 426-426.	4.2	1
66	Correction of the <i>Crb1rd8</i> Allele and Retinal Phenotype in C57BL/6N Mice Via TALEN-Mediated Homology-Directed Repair. , 2014, 55, 387.		66
67	Systematic screening reveals a role for BRCA1 in the response to transcription-associated DNA damage. <i>Genes and Development</i> , 2014, 28, 1957-1975.	4.6	95
68	Broad specificity profiling of TALENs results in engineered nucleases with improved DNA-cleavage specificity. <i>Nature Methods</i> , 2014, 11, 429-435.	24.6	204
69	CRISPR-Cas systems for editing, regulating and targeting genomes. <i>Nature Biotechnology</i> , 2014, 32, 347-355.	29.8	2,951
70	Pathways Disrupted in Human ALS Motor Neurons Identified through Genetic Correction of Mutant SOD1. <i>Cell Stem Cell</i> , 2014, 14, 781-795.	16.4	444
71	Dimeric CRISPR RNA-guided FokI nucleases for highly specific genome editing. <i>Nature Biotechnology</i> , 2014, 32, 569-576.	29.8	909
72	Improving CRISPR-Cas nuclease specificity using truncated guide RNAs. <i>Nature Biotechnology</i> , 2014, 32, 279-284.	29.8	1,899

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73	I κ B Kinase $\hat{1}^2$ (IKBKB) Mutations in Lymphomas That Constitutively Activate Canonical Nuclear Factor $\hat{1}^B$ (NF $\hat{1}^B$) Signaling. <i>Journal of Biological Chemistry</i> , 2014, 289, 26960-26972.	2.2	24
74	Targeted mutagenesis of zebrafish antithrombin III triggers disseminated intravascular coagulation and thrombosis, revealing insight into function. <i>Blood</i> , 2014, 124, 142-150.	4.2	65
75	GUIDE-seq enables genome-wide profiling of off-target cleavage by CRISPR-Cas nucleases. <i>Nature Biotechnology</i> , 2014, 33, 187-197.	29.8	2,128
76	Cationic lipid-mediated delivery of proteins enables efficient protein-based genome editing in vitro and in vivo. <i>Nature Biotechnology</i> , 2014, 33, 73-80.	29.8	1,369
77	Genome and Epigenome Editing: A Revolution in Science and Medicine. <i>Blood</i> , 2014, 124, SCI-10-SCI-10.	4.2	0
78	CRISPR RNAâ€“guided activation of endogenous human genes. <i>Nature Methods</i> , 2013, 10, 977-979.	24.6	1,166
79	Interactome Maps of Mouse Gene Regulatory Domains Reveal Basic Principles of Transcriptional Regulation. <i>Cell</i> , 2013, 155, 1507-1520.	33.7	318
80	Engineering Customized TALE Nucleases (TALENs) and TALE Transcription Factors by Fast Ligationâ€“Based Automatable Solidâ€“Phase Highâ€“Throughput (FLASH) Assembly. <i>Current Protocols in Molecular Biology</i> , 2013, 103, .	0.0	29
81	Locus-specific editing of histone modifications at endogenous enhancers. <i>Nature Biotechnology</i> , 2013, 31, 1133-1136.	29.8	356
82	Efficient genome editing in zebrafish using a CRISPR-Cas system. <i>Nature Biotechnology</i> , 2013, 31, 227-229.	29.8	2,899
83	Translating the Genomics Revolution: The Need for an International Gene Therapy Consortium for Monogenic Diseases. <i>Molecular Therapy</i> , 2013, 21, 266-268.	10.2	12
84	High-frequency off-target mutagenesis induced by CRISPR-Cas nucleases in human cells. <i>Nature Biotechnology</i> , 2013, 31, 822-826.	29.8	3,110
85	piggyBac transposase tools for genome engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, .	7.5	210
86	Targeted Deletion and Inversion of Tandemly Arrayed Genes in <i>Arabidopsis thaliana</i> Using Zinc Finger Nucleases. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 1707-1715.	1.9	86
87	A Zebrafish Model Of Antithrombin III Deficiency Displays Bleeding and Thrombosis Secondary To Disseminated Intravascular Coagulation. <i>Blood</i> , 2013, 122, 200-200.	4.2	1
88	A Synthetic Biology Framework for Programming Eukaryotic Transcription Functions. <i>Cell</i> , 2012, 150, 647-658.	33.7	318
89	Engineering Designer Transcription Activatorâ€“Like Effector Nucleases (TALENs) by REAL or REALâ€“Fast Assembly. <i>Current Protocols in Molecular Biology</i> , 2012, 100, .	0.0	71
90	FLASH assembly of TALENs for high-throughput genome editing. <i>Nature Biotechnology</i> , 2012, 30, 460-465.	29.8	1,174

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91	TALENs: a widely applicable technology for targeted genome editing. <i>Nature Reviews Molecular Cell Biology</i> , 2012, 14, 49-55.	78.2	1,536
92	Targeted gene disruption in somatic zebrafish cells using engineered TALENs. <i>Nature Biotechnology</i> , 2011, 29, 697-698.	29.8	602
93	Engineering Designer Nucleases with Customized Cleavage Specificities. <i>Current Protocols in Molecular Biology</i> , 2011, 96, .	0.0	16
94	ZFNGenome: A comprehensive resource for locating zinc finger nuclease target sites in model organisms. <i>BMC Genomics</i> , 2011, 12, .	3.3	50
95	Reply to "Genome editing with modularly assembled zinc-finger nucleases", <i>Nature Methods</i> , 2010, 7, 91-92.	24.6	72
96	Gene Targeting of a Disease-Related Gene in Human Induced Pluripotent Stem and Embryonic Stem Cells. <i>Cell Stem Cell</i> , 2009, 5, 97-110.	16.4	513
97	Zinc-finger Nucleases: The Next Generation Emerges. <i>Molecular Therapy</i> , 2008, 16, 1200-1207.	10.2	324
98	Synthetic protein-protein interaction domains created by shuffling Cys ₂ His ₂ zinc-fingers. <i>Molecular Systems Biology</i> , 2006, 2, .	6.7	21
99	A Combined Yeast/Bacteria Two-hybrid System. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 819-826.	3.0	21
100	Repression of phase-variable cup gene expression by H-NS-like proteins in <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11082-11087.	7.5	109
101	Identifying and modifying protein-DNA and protein-protein interactions using a bacterial two-hybrid selection system. <i>Journal of Cellular Biochemistry</i> , 2001, 84, 53-57.	3.0	13
102	Activation of prokaryotic transcription through arbitrary protein-protein contacts. <i>Nature</i> , 1997, 386, 627-630.	37.9	290
103	Nodal patterning without Lefty inhibitory feedback is functional but fragile. <i>ELife</i> , 0, 6, .	1.6	62
104	Enhancing CRISPR prime editing by reducing misfolded pegRNA interactions. <i>ELife</i> , 0, 12, .	1.6	17