

Jeffrey C Miller

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

16,867
citations

94269

37
h-index

288905

40
g-index

40
all docs

40
docs citations

40
times ranked

15063
citing authors

#	ARTICLE	IF	CITATIONS
1	A TALE nuclease architecture for efficient genome editing. <i>Nature Biotechnology</i> , 2011, 29, 143-148.	9.4	1,855
2	Highly efficient endogenous human gene correction using designed zinc-finger nucleases. <i>Nature</i> , 2005, 435, 646-651.	13.7	1,512
3	Genetic engineering of human pluripotent cells using TALE nucleases. <i>Nature Biotechnology</i> , 2011, 29, 731-734.	9.4	1,082
4	Distinct Factors Control Histone Variant H3.3 Localization at Specific Genomic Regions. <i>Cell</i> , 2010, 140, 678-691.	13.5	1,069
5	Efficient targeting of expressed and silent genes in human ESCs and iPSCs using zinc-finger nucleases. <i>Nature Biotechnology</i> , 2009, 27, 851-857.	9.4	990
6	An improved zinc-finger nuclease architecture for highly specific genome editing. <i>Nature Biotechnology</i> , 2007, 25, 778-785.	9.4	967
7	Establishment of HIV-1 resistance in CD4+ T cells by genome editing using zinc-finger nucleases. <i>Nature Biotechnology</i> , 2008, 26, 808-816.	9.4	916
8	Precise genome modification in the crop species <i>Zea mays</i> using zinc-finger nucleases. <i>Nature</i> , 2009, 459, 437-441.	13.7	862
9	Heritable targeted gene disruption in zebrafish using designed zinc-finger nucleases. <i>Nature Biotechnology</i> , 2008, 26, 702-708.	9.4	842
10	Knockout Rats via Embryo Microinjection of Zinc-Finger Nucleases. <i>Science</i> , 2009, 325, 433-433.	6.0	836
11	Targeted Genome Editing Across Species Using ZFNs and TALENs. <i>Science</i> , 2011, 333, 307-307.	6.0	556
12	An unbiased genome-wide analysis of zinc-finger nuclease specificity. <i>Nature Biotechnology</i> , 2011, 29, 816-823.	9.4	488
13	A Rapid and General Assay for Monitoring Endogenous Gene Modification. <i>Methods in Molecular Biology</i> , 2010, 649, 247-256.	0.4	453
14	A foundation for universal T-cell based immunotherapy: T cells engineered to express a CD19-specific chimeric-antigen-receptor and eliminate expression of endogenous TCR. <i>Blood</i> , 2012, 119, 5697-5705.	0.6	437
15	Enhancing zinc-finger-nuclease activity with improved obligate heterodimeric architectures. <i>Nature Methods</i> , 2011, 8, 74-79.	9.0	376
16	Targeted gene knockout in mammalian cells by using engineered zinc-finger nucleases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 5809-5814.	3.3	347
17	Functional genomics, proteomics, and regulatory DNA analysis in isogenic settings using zinc finger nuclease-driven transgenesis into a safe harbor locus in the human genome. <i>Genome Research</i> , 2010, 20, 1133-1142.	2.4	280
18	In vivo genome editing of the albumin locus as a platform for protein replacement therapy. <i>Blood</i> , 2015, 126, 1777-1784.	0.6	256

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19	Toward eliminating HLA class I expression to generate universal cells from allogeneic donors. <i>Blood</i> , 2013, 122, 1341-1349.	0.6	243
20	Drug discovery with engineered zinc-finger proteins. <i>Nature Reviews Drug Discovery</i> , 2003, 2, 361-368.	21.5	237
21	Rapid and efficient clathrin-mediated endocytosis revealed in genome-edited mammalian cells. <i>Nature Cell Biology</i> , 2011, 13, 331-337.	4.6	233
22	Targeted transgene integration in plant cells using designed zinc finger nucleases. <i>Plant Molecular Biology</i> , 2009, 69, 699-709.	2.0	213
23	Development of a single-chain, quasi-dimeric zinc-finger nuclease for the selective degradation of mutated human mitochondrial DNA. <i>Nucleic Acids Research</i> , 2008, 36, 3926-3938.	6.5	195
24	Zinc-finger nuclease-driven targeted integration into mammalian genomes using donors with limited chromosomal homology. <i>Nucleic Acids Research</i> , 2010, 38, e152-e152.	6.5	177
25	Highly efficient deletion of <i>FUT8</i> in CHO cell lines using zinc-finger nucleases yields cells that produce completely nonfucosylated antibodies. <i>Biotechnology and Bioengineering</i> , 2010, 106, 774-783.	1.7	163
26	Robust ZFN-mediated genome editing in adult hemophilic mice. <i>Blood</i> , 2013, 122, 3283-3287.	0.6	159
27	<i>BAK</i> and <i>BAX</i> deletion using zinc-finger nucleases yields apoptosis-resistant CHO cells. <i>Biotechnology and Bioengineering</i> , 2010, 105, 330-340.	1.7	146
28	Efficient targeted gene disruption in the soma and germ line of the frog <i>Xenopus tropicalis</i> using engineered zinc-finger nucleases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7052-7057.	3.3	135
29	Engineering HIV-Resistant Human CD4+ T Cells with CXCR4-Specific Zinc-Finger Nucleases. <i>PLoS Pathogens</i> , 2011, 7, e1002020.	2.1	130
30	Targeted gene addition to a predetermined site in the human genome using a ZFN-based nicking enzyme. <i>Genome Research</i> , 2012, 22, 1316-1326.	2.4	121
31	Improved specificity of TALE-based genome editing using an expanded RVD repertoire. <i>Nature Methods</i> , 2015, 12, 465-471.	9.0	91
32	Generation of a triple-gene knockout mammalian cell line using engineered zinc-finger nucleases. <i>Biotechnology and Bioengineering</i> , 2010, 106, 97-105.	1.7	90
33	Diversifying the structure of zinc finger nucleases for high-precision genome editing. <i>Nature Communications</i> , 2019, 10, 1133.	5.8	79
34	Rearrangement of side-chains in a zif268 mutant highlights the complexities of zinc finger-DNA recognition. <i>Journal of Molecular Biology</i> , 2001, 313, 309-315.	2.0	66
35	Non-viral Delivery of Zinc Finger Nuclease mRNA Enables Highly Efficient In Vivo Genome Editing of Multiple Therapeutic Gene Targets. <i>Molecular Therapy</i> , 2019, 27, 866-877.	3.7	64
36	Transcriptional activation of <i>Brassica napus</i> <i>2-alkenyl-CoA synthase II</i> with an engineered zinc finger protein transcription factor. <i>Plant Biotechnology Journal</i> , 2012, 10, 783-791.	4.1	57

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37	Engineered Zinc Finger Proteins for Controlling Stem Cell Fate. <i>Stem Cells</i> , 2003, 21, 632-637.	1.4	54
38	Enhancing gene editing specificity by attenuating DNA cleavage kinetics. <i>Nature Biotechnology</i> , 2019, 37, 945-952.	9.4	39
39	Engineering altered protein-DNA recognition specificity. <i>Nucleic Acids Research</i> , 2018, 46, 4845-4871.	6.5	36
40	Multi-reporter selection for the design of active and more specific zinc-finger nucleases for genome editing. <i>Nature Communications</i> , 2016, 7, 10194.	5.8	15