

Benjamin P Kleinstiver

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

5,999
citations

22
h-index

63
g-index

63
ext. papers

7,810
ext. citations

20.3
avg, IF

6.04
L-index

#	Paper	IF	Citations
52	CRISPR-Cas knockout of miR21 reduces glioma growth.. <i>Molecular Therapy - Oncolytics</i> , 2022 , 25, 121-136.	6.4	0
51	Genome editing in animals with minimal PAM CRISPR-Cas9 enzymes.. <i>Nature Communications</i> , 2022 , 13, 2601	17.4	1
50	Lack of Cas13a inhibition by anti-CRISPR proteins from <i>Leptotrichia</i> prophages. <i>Molecular Cell</i> , 2022 , 82, 2161-2166.e3	17.6	0
49	Whole-genome sequencing association analysis of quantitative red blood cell phenotypes: The NHLBI TOPMed program. <i>American Journal of Human Genetics</i> , 2021 , 108, 874-893	11	5
48	Enhanced homology-directed repair for highly efficient gene editing in hematopoietic stem/progenitor cells. <i>Blood</i> , 2021 , 137, 2598-2608	2.2	13
47	CRISPR-targeted MAGT1 insertion restores XMEN patient hematopoietic stem cells and lymphocytes. <i>Blood</i> , 2021 ,	2.2	1
46	Astrocytic interleukin-3 programs microglia and limits Alzheimer's disease. <i>Nature</i> , 2021 , 595, 701-706	50.4	41
45	Optimization of AsCas12a for combinatorial genetic screens in human cells. <i>Nature Biotechnology</i> , 2021 , 39, 94-104	44.5	34
44	Scalable characterization of the PAM requirements of CRISPR-Cas enzymes using HT-PAMDA. <i>Nature Protocols</i> , 2021 , 16, 1511-1547	18.8	4
43	NNT mediates redox-dependent pigmentation via a UVB- and MITF-independent mechanism. <i>Cell</i> , 2021 , 184, 4268-4283.e20	56.2	5
42	Making the cut with PAMless CRISPR-Cas enzymes. <i>Trends in Genetics</i> , 2021 , 37, 1053-1055	8.5	0
41	enAsCas12a Enables CRISPR-Directed Evolution to Screen for Functional Drug Resistance Mutations in Sequences Inaccessible to SpCas9. <i>Molecular Therapy</i> , 2021 , 29, 208-224	11.7	4
40	Plant genome editing branches out. <i>Nature Plants</i> , 2021 , 7, 4-5	11.5	3
39	Mutant Allele-Specific CRISPR Disruption in DYT1 Dystonia Fibroblasts Restores Cell Function. <i>Molecular Therapy - Nucleic Acids</i> , 2020 , 21, 1-12	10.7	3
38	In vivo engineering of lymphocytes after systemic exosome-associated AAV delivery. <i>Scientific Reports</i> , 2020 , 10, 4544	4.9	10
37	Broad-spectrum anti-CRISPR proteins facilitate horizontal gene transfer. <i>Nature Microbiology</i> , 2020 , 5, 620-629	26.6	29
36	Unconstrained genome targeting with near-PAMless engineered CRISPR-Cas9 variants. <i>Science</i> , 2020 , 368, 290-296	33.3	325

35	Cell-based artificial APC resistant to lentiviral transduction for efficient generation of CAR-T cells from various cell sources 2020 , 8,		4
34	Listeria Phages Induce Cas9 Degradation to Protect Lysogenic Genomes. <i>Cell Host and Microbe</i> , 2020 , 28, 31-40.e9	23.4	30
33	High levels of AAV vector integration into CRISPR-induced DNA breaks. <i>Nature Communications</i> , 2019 , 10, 4439	17.4	119
32	Engineered CRISPR-Cas12a variants with increased activities and improved targeting ranges for gene, epigenetic and base editing. <i>Nature Biotechnology</i> , 2019 , 37, 276-282	44.5	235
31	Activities and specificities of CRISPR/Cas9 and Cas12a nucleases for targeted mutagenesis in maize. <i>Plant Biotechnology Journal</i> , 2019 , 17, 362-372	11.6	125
30	Allele-specific gene editing prevents deafness in a model of dominant progressive hearing loss. <i>Nature Medicine</i> , 2019 , 25, 1123-1130	50.5	84
29	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	2.5	60
28	Prediction of off-target activities for the end-to-end design of CRISPR guide RNAs. <i>Nature Biomedical Engineering</i> , 2018 , 2, 38-47	19	127
27	CRISPR/Cas9 Mediated Disruption of the Swedish APP Allele as a Therapeutic Approach for Early-Onset Alzheimer's Disease. <i>Molecular Therapy - Nucleic Acids</i> , 2018 , 11, 429-440	10.7	71
26	Temporal and Spatial Post-Transcriptional Regulation of Zebrafish mRNA by Long Noncoding RNA During Brain Vascular Assembly. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 1562-1575	9.4	12
25	Discovery of widespread type I and type V CRISPR-Cas inhibitors. <i>Science</i> , 2018 , 362, 240-242	33.3	129
24	Inducible and multiplex gene regulation using CRISPR-Cpf1-based transcription factors. <i>Nature Methods</i> , 2017 , 14, 1163-1166	21.6	132
23	Enhanced proofreading governs CRISPR-Cas9 targeting accuracy. <i>Nature</i> , 2017 , 550, 407-410	50.4	619
22	Camptothecin resistance is determined by the regulation of topoisomerase I degradation mediated by ubiquitin proteasome pathway. <i>Oncotarget</i> , 2017 , 8, 43733-43751	3.3	15
21	Genome-wide specificities of CRISPR-Cas Cpf1 nucleases in human cells. <i>Nature Biotechnology</i> , 2016 , 34, 869-74	44.5	415
20	High-fidelity CRISPR-Cas9 nucleases with no detectable genome-wide off-target effects. <i>Nature</i> , 2016 , 529, 490-5	50.4	1600
19	Isocitrate Dehydrogenase Mutations Confer Dasatinib Hypersensitivity and SRC Dependence in Intrahepatic Cholangiocarcinoma. <i>Cancer Discovery</i> , 2016 , 6, 727-39	24.4	94
18	Engineered CRISPR-Cas9 nucleases with altered PAM specificities. <i>Nature</i> , 2015 , 523, 481-5	50.4	1061

17	Broadening the targeting range of <i>Staphylococcus aureus</i> CRISPR-Cas9 by modifying PAM recognition. <i>Nature Biotechnology</i> , 2015 , 33, 1293-1298	44.5	381
16	Hypoxia drives transient site-specific copy gain and drug-resistant gene expression. <i>Genes and Development</i> , 2015 , 29, 1018-31	12.6	55
15	Rapid screening of endonuclease target site preference using a modified bacterial two-plasmid selection. <i>Methods in Molecular Biology</i> , 2014 , 1123, 97-104	1.4	1
14	The I-TevI nuclease and linker domains contribute to the specificity of monomeric TALENs. <i>G3: Genes, Genomes, Genetics</i> , 2014 , 4, 1155-65	3.2	17
13	The monomeric GIY-YIG homing endonuclease I-Bmol uses a molecular anchor and a flexible tether to sequentially nick DNA. <i>Nucleic Acids Research</i> , 2013 , 41, 5413-27	20.1	11
12	Monomeric site-specific nucleases for genome editing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8061-6	11.5	47
11	Divalent metal ion differentially regulates the sequential nicking reactions of the GIY-YIG homing endonuclease I-Bmol. <i>PLoS ONE</i> , 2011 , 6, e23804	3.7	6
10	A unified genetic, computational and experimental framework identifies functionally relevant residues of the homing endonuclease I-Bmol. <i>Nucleic Acids Research</i> , 2010 , 38, 2411-27	20.1	13
9	Estimating the evidence of selection and the reliability of inference in unigenic evolution. <i>Algorithms for Molecular Biology</i> , 2010 , 5, 35	1.8	1
8	Strand-specific contacts and divalent metal ion regulate double-strand break formation by the GIY-YIG homing endonuclease I-Bmol. <i>Journal of Molecular Biology</i> , 2007 , 374, 306-21	6.5	15
7	Genome-wide specificity profiles of CRISPR-Cas Cpf1 nucleases in human cells		2
6	Enhanced proofreading governs CRISPR-Cas9 targeting accuracy		5
5	Allele-specific CRISPR/Cas9 genome editing of the single-base P23H mutation for rhodopsin associated dominant retinitis pigmentosa		2
4	Whole genome sequencing association analysis of quantitative red blood cell phenotypes: the NHLBI TOPMed program		1
3	Optimization of AsCas12a for combinatorial genetic screens in human cells		11
2	Listeriophages induce Cas9 degradation to protect lysogenic genomes		11
1	Inducible, tunable and multiplex human gene regulation using CRISPR-Cpf1-based transcription factors		1