Philip D Gregory

List of Publications by Year
in descending order

99 papers	30,870 citations	11651 70 h-index	33894 99 g-index
99 all docs	99 docs citations	99 times ranked	25026 citing authors

#	Article	IF	Citations
1	Genome editing with engineered zinc finger nucleases. Nature Reviews Genetics, 2010, 11, 636-646.	16.3	1,863
2	A TALE nuclease architecture for efficient genome editing. Nature Biotechnology, 2011, 29, 143-148.	17.5	1,855
3	Highly efficient endogenous human gene correction using designed zinc-finger nucleases. Nature, 2005, 435, 646-651.	27.8	1,512
4	Gene Editing of<i>CCR5</i>in Autologous CD4 T Cells of Persons Infected with HIV. New England Journal of Medicine, 2014, 370, 901-910.	27.0	1,227
5	Genetic engineering of human pluripotent cells using TALE nucleases. Nature Biotechnology, 2011, 29, 731-734.	17.5	1,082
6	Distinct Factors Control Histone Variant H3.3 Localization at Specific Genomic Regions. Cell, 2010, 140, 678-691.	28.9	1,069
7	Efficient targeting of expressed and silent genes in human ESCs and iPSCs using zinc-finger nucleases. Nature Biotechnology, 2009, 27, 851-857.	17.5	990
8	An improved zinc-finger nuclease architecture for highly specific genome editing. Nature Biotechnology, 2007, 25, 778-785.	17.5	967
9	Establishment of HIV-1 resistance in CD4+ T cells by genome editing using zinc-finger nucleases. Nature Biotechnology, 2008, 26, 808-816.	17.5	916
10	Precise genome modification in the crop species Zea mays using zinc-finger nucleases. Nature, 2009, 459, 437-441.	27.8	862
11	Heritable targeted gene disruption in zebrafish using designed zinc-finger nucleases. Nature Biotechnology, 2008, 26, 702-708.	17.5	842
12	Knockout Rats via Embryo Microinjection of Zinc-Finger Nucleases. Science, 2009, 325, 433-433.	12.6	836
13	Gene editing in human stem cells using zinc finger nucleases and integrase-defective lentiviral vector delivery. Nature Biotechnology, 2007, 25, 1298-1306.	17.5	797
14	Histone Deimination Antagonizes Arginine Methylation. Cell, 2004, 118, 545-553.	28.9	744
15	Generation of Isogenic Pluripotent Stem Cells Differing Exclusively at Two Early Onset Parkinson Point Mutations. Cell, 2011, 146, 318-331.	28.9	703
16	Human hematopoietic stem/progenitor cells modified by zinc-finger nucleases targeted to CCR5 control HIV-1 in vivo. Nature Biotechnology, 2010, 28, 839-847.	17.5	618
17	Controlling Long-Range Genomic Interactions at a Native Locus by Targeted Tethering of a Looping Factor. Cell, 2012, 149, 1233-1244.	28.9	615
18	K13-propeller mutations confer artemisinin resistance in <i>Plasmodium falciparum</i> clinical isolates. Science, 2015, 347, 428-431.	12.6	563

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19	Targeted Genome Editing Across Species Using ZFNs and TALENs. Science, 2011, 333, 307-307.	12.6	556
20	Knockout rats generated by embryo microinjection of TALENs. Nature Biotechnology, 2011, 29, 695-696.	17.5	556
21	In vivo genome editing restores haemostasis in a mouse model of haemophilia. Nature, 2011, 475, 217-221.	27.8	523
22	Targeted genome editing in human repopulating haematopoietic stem cells. Nature, 2014, 510, 235-240.	27.8	517
23	An unbiased genome-wide analysis of zinc-finger nuclease specificity. Nature Biotechnology, 2011, 29, 816-823.	17.5	488
24	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. Blood, 2012, 119, 5697-5705.	1.4	437
25	Editing T cell specificity towards leukemia by zinc finger nucleases and lentiviral gene transfer. Nature Medicine, 2012, 18, 807-815.	30.7	398
26	Enhancing zinc-finger-nuclease activity with improved obligate heterodimeric architectures. Nature Methods, 2011, 8, 74-79.	19.0	376
27	Reactivation of Developmentally Silenced Globin Genes by Forced Chromatin Looping. Cell, 2014, 158, 849-860.	28.9	370
28	Targeted gene addition into a specified location in the human genome using designed zinc finger nucleases. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3055-3060.	7.1	352
29	Targeted gene knockout in mammalian cells by using engineered zinc-finger nucleases. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5809-5814.	7.1	347
30	Efficient generation of a biallelic knockout in pigs using zinc-finger nucleases. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12013-12017.	7.1	329
31	Site-specific integration and tailoring of cassette design for sustainable gene transfer. Nature Methods, 2011, 8, 861-869.	19.0	300
32	Correction of the sickle cell disease mutation in human hematopoietic stem/progenitor cells. Blood, 2015, 125, 2597-2604.	1.4	292
33	Translating dosage compensation to trisomy 21. Nature, 2013, 500, 296-300.	27.8	282
34	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. Genome Research, 2010, 20, 1133-1142.	5.5	280
35	In vivo genome editing of the albumin locus as a platform for protein replacement therapy. Blood, 2015, 126, 1777-1784.	1.4	256
36	DNA Ligase III Promotes Alternative Nonhomologous End-Joining during Chromosomal Translocation Formation. PLoS Genetics, 2011, 7, e1002080.	3.5	250

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37	Homology-driven genome editing in hematopoietic stem and progenitor cells using ZFN mRNA and AAV6 donors. Nature Biotechnology, 2015, 33, 1256-1263.	17.5	250
38	Histone Acetylation and Chromatin Remodeling. Experimental Cell Research, 2001, 265, 195-202.	2.6	243
39	Toward eliminating HLA class I expression to generate universal cells from allogeneic donors. Blood, 2013, 122, 1341-1349.	1.4	243
40	Rapid and efficient clathrin-mediated endocytosis revealed in genome-edited mammalian cells. Nature Cell Biology, 2011, 13, 331-337.	10.3	233
41	Gene-Specific Targeting of H3K9 Methylation Is Sufficient for Initiating Repression In Vivo. Current Biology, 2002, 12, 2159-2166.	3.9	223
42	Targeted transgene integration in plant cells using designed zinc finger nucleases. Plant Molecular Biology, 2009, 69, 699-709.	3.9	213
43	Zinc-finger nuclease-driven targeted integration into mammalian genomes using donors with limited chromosomal homology. Nucleic Acids Research, 2010, 38, e152-e152.	14.5	177
44	Targeted Correction and Restored Function of the CFTR Gene in Cystic Fibrosis Induced Pluripotent Stem Cells. Stem Cell Reports, 2015, 4, 569-577.	4.8	168
45	Genomic Editing of the HIV-1 Coreceptor CCR5 in Adult Hematopoietic Stem and Progenitor Cells Using Zinc Finger Nucleases. Molecular Therapy, 2013, 21, 1259-1269.	8.2	167
46	In vivo cleavage of transgene donors promotes nucleaseâ€mediated targeted integration. Biotechnology and Bioengineering, 2013, 110, 871-880.	3.3	167
47	Targeted gene addition in human CD34+ hematopoietic cells for correction of X-linked chronic granulomatous disease. Nature Biotechnology, 2016, 34, 424-429.	17.5	166
48	Highly efficient deletion of <i>FUT8</i> in CHO cell lines using zincâ€finger nucleases yields cells that produce completely nonfucosylated antibodies. Biotechnology and Bioengineering, 2010, 106, 774-783.	3.3	163
49	Robust ZFN-mediated genome editing in adult hemophilic mice. Blood, 2013, 122, 3283-3287.	1.4	159
50	Efficient Immunoglobulin Gene Disruption and Targeted Replacement in Rabbit Using Zinc Finger Nucleases. PLoS ONE, 2011, 6, e21045.	2.5	151
51	Site-specific genome editing in Plasmodium falciparum using engineered zinc-finger nucleases. Nature Methods, 2012, 9, 993-998.	19.0	149
52	<i>BAK</i> and <i>BAX</i> deletion using zincâ€finger nucleases yields apoptosisâ€resistant CHO cells. Biotechnology and Bioengineering, 2010, 105, 330-340.	3.3	146
53	Zinc-finger protein-targeted gene regulation: Genomewide single-gene specificity. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11997-12002.	7.1	142
54	Allele-selective transcriptional repression of mutant HTT for the treatment of Huntingtonâ€™s disease. Nature Medicine, 2019, 25, 1131-1142.	30.7	139

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55	Transient cold shock enhances zinc-finger nucleaseâ€“mediated gene disruption. Nature Methods, 2010, 7, 459-460.	19.0	137
56	Efficient targeted gene disruption in the soma and germ line of the frog <i>Xenopus tropicalis</i> using engineered zinc-finger nucleases. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7052-7057.	7.1	135
57	Engineering HIV-Resistant Human CD4+ T Cells with CXCR4-Specific Zinc-Finger Nucleases. PLoS Pathogens, 2011, 7, e1002020.	4.7	130
58	Functional footprinting of regulatory DNA. Nature Methods, 2015, 12, 927-930.	19.0	123
59	Targeted gene addition to a predetermined site in the human genome using a ZFN-based nicking enzyme. Genome Research, 2012, 22, 1316-1326.	5.5	121
60	Chromatin remodelling at the PHO8 promoter requires SWIâ€“SNF and SAGA at a step subsequent to activator binding. EMBO Journal, 1999, 18, 6407-6414.	7.8	117
61	Highly efficient homology-driven genome editing in human T cells by combining zinc-finger nuclease mRNA and AAV6 donor delivery. Nucleic Acids Research, 2016, 44, e30-e30.	14.5	109
62	Absence of Gcn5 HAT Activity Defines a Novel State in the Opening of Chromatin at the PHO5 Promoter in Yeast. Molecular Cell, 1998, 1, 495-505.	9.7	103
63	Genetic and molecular identification of three human TPP1 functions in telomerase action: recruitment, activation, and homeostasis set point regulation. Genes and Development, 2014, 28, 1885-1899.	5.9	101
64	Zinc-finger Nuclease Editing of Human cxcr4 Promotes HIV-1 CD4+ T Cell Resistance and Enrichment. Molecular Therapy, 2012, 20, 849-859.	8.2	100
65	A Transient Histone Hyperacetylation Signal Marks Nucleosomes for Remodeling at the PHO8 Promoter In Vivo. Molecular Cell, 2001, 7, 529-538.	9.7	96
66	Improved specificity of TALE-based genome editing using an expanded RVD repertoire. Nature Methods, 2015, 12, 465-471.	19.0	91
67	Preclinical development and qualification of ZFN-mediated CCR5 disruption in human hematopoietic stem/progenitor cells. Molecular Therapy - Methods and Clinical Development, 2016, 3, 16067.	4.1	91
68	Generation of a tripleâ€gene knockout mammalian cell line using engineered zincâ€finger nucleases. Biotechnology and Bioengineering, 2010, 106, 97-105.	3.3	90
69	Clinical Scale Zinc Finger Nuclease-mediated Gene Editing of PD-1 in Tumor Infiltrating Lymphocytes for the Treatment of Metastatic Melanoma. Molecular Therapy, 2015, 23, 1380-1390.	8.2	88
70	Human Intestinal Tissue with Adult Stem Cell Properties Derived from Pluripotent Stem Cells. Stem Cell Reports, 2014, 2, 838-852.	4.8	83
71	Targeted gene therapy and cell reprogramming in <scp>F</scp>anconi anemia. EMBO Molecular Medicine, 2014, 6, 835-848.	6.9	66
72	Prostaglandin E2 Increases Lentiviral Vector Transduction Efficiency of Adult Human Hematopoietic Stem and Progenitor Cells. Molecular Therapy, 2018, 26, 320-328.	8.2	63

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73	Long-term multilineage engraftment of autologous genome-edited hematopoietic stem cells in nonhuman primates. Blood, 2016, 127, 2416-2426.	1.4	62
74	An Engineered Zinc Finger Protein Activator of the Endogenous Glial Cell Line-Derived Neurotrophic Factor Gene Provides Functional Neuroprotection in a Rat Model of Parkinson's Disease. Journal of Neuroscience, 2010, 30, 16469-16474.	3.6	61
75	Repression of vascular endothelial growth factor A in glioblastoma cells using engineered zinc finger transcription factors. Cancer Research, 2003, 63, 8968-76.	0.9	60
76	Transcriptional activation of <i>Brassica napus</i> Î²â€ketoacylâ€ACP synthase II with an engineered zinc finger protein transcription factor. Plant Biotechnology Journal, 2012, 10, 783-791.	8.3	57
77	Targeted gene addition to human mesenchymal stromal cells as a cell-based plasma-soluble protein delivery platform. Cytotherapy, 2010, 12, 394-399.	0.7	55
78	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.	4.1	49
79	Life with nucleosomes: chromatin remodelling in gene regulation. Current Opinion in Cell Biology, 1998, 10, 339-345.	5.4	45
80	Potent and Broad Inhibition of HIV-1 by a Peptide from the gp41 Heptad Repeat-2 Domain Conjugated to the CXCR4 Amino Terminus. PLoS Pathogens, 2016, 12, e1005983.	4.7	43
81	Activation domains for controlling plant gene expression using designed transcription factors. Plant Biotechnology Journal, 2013, 11, 671-680.	8.3	33
82	Genetic editing of HLA expression in hematopoietic stem cells to broaden their human application. Scientific Reports, 2016, 6, 21757.	3.3	33
83	Off-the-shelf, steroid-resistant, IL13RÎ±2-specific CAR T cells for treatment of glioblastoma. Neuro-Oncology, 2022, 24, 1318-1330.	1.2	32
84	Mapping chromatin structure in yeast. Methods in Enzymology, 1999, 304, 365-376.	1.0	22
85	Biotechnologies and therapeutics: chromatin as a target. Current Opinion in Genetics and Development, 2002, 12, 233-242.	3.3	22
86	Transcription and chromatin converge: lessons from yeast genetics. Current Opinion in Genetics and Development, 2001, 11, 142-147.	3.3	19
87	Enhanced protein production by engineered zinc finger proteins. Biotechnology and Bioengineering, 2007, 97, 1180-1189.	3.3	19
88	A Designed Zinc-finger Transcriptional Repressor of Phospholamban Improves Function of the Failing Heart. Molecular Therapy, 2012, 20, 1508-1515.	8.2	18
89	Gene Transfer of An Engineered Zinc Finger Protein Enhances the Anti-angiogenic Defense System. Molecular Therapy, 2007, 15, 1917-1923.	8.2	17
90	CRISPR technology for gene therapy. Nature Medicine, 2014, 20, 476-477.	30.7	17

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91	Gene regulation in planta by plant-derived engineered zinc finger protein transcription factors. Plant Molecular Biology, 2005, 57, 411-423.	3.9	16
92	Use of zinc-finger nucleases to knock out the<i>WAS</i>gene in K562 cells: a human cellular model for Wiskott-Aldrich syndrome. DMM Disease Models and Mechanisms, 2013, 6, 544-54.	2.4	16
93	Isogenic Human Cell Lines for Drug Discovery: Regulation of Target Gene Expression by Engineered Zinc-Finger Protein Transcription Factors. Journal of Biomolecular Screening, 2005, 10, 304-313.	2.6	15
94	Analyzing Chromatin Structure and Transcription Factor Binding in Yeast. Methods, 1998, 15, 295-302.	3.8	14
95	Dissection of Splicing Regulation at an Endogenous Locus by Zinc-Finger Nuclease-Mediated Gene Editing. PLoS ONE, 2011, 6, e16961.	2.5	8
96	Absence of WASp Enhances Hematopoietic and Megakaryocytic Differentiation in a Human Embryonic Stem Cell Model. Molecular Therapy, 2016, 24, 342-353.	8.2	8
97	Genome Editing in Neuroepithelial Stem Cells to Generate Human Neurons with High Adenosine-Releasing Capacity. Stem Cells Translational Medicine, 2018, 7, 477-486.	3.3	8
98	Controlling gene expression in Drosophila using engineered zinc finger protein transcription factors. Biochemical and Biophysical Research Communications, 2006, 348, 873-879.	2.1	7
99	A Southern Blot Protocol to Detect Chimeric Nuclease-Mediated Gene Repair. Methods in Molecular Biology, 2014, 1114, 325-338.	0.9	1