

Gregory A Newby

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

7,095
citations

279798

23
h-index

414414

32
g-index

35
all docs

35
docs citations

35
times ranked

5492
citing authors

#	ARTICLE	IF	CITATIONS
1	Search-and-replace genome editing without double-strand breaks or donor DNA. <i>Nature</i> , 2019, 576, 149-157.	27.8	2,662
2	Improving cytidine and adenine base editors by expression optimization and ancestral reconstruction. <i>Nature Biotechnology</i> , 2018, 36, 843-846.	17.5	644
3	Phage-assisted evolution of an adenine base editor with improved Cas domain compatibility and activity. <i>Nature Biotechnology</i> , 2020, 38, 883-891.	17.5	502
4	Enhanced prime editing systems by manipulating cellular determinants of editing outcomes. <i>Cell</i> , 2021, 184, 5635-5652.e29.	28.9	332
5	Engineered pegRNAs improve prime editing efficiency. <i>Nature Biotechnology</i> , 2022, 40, 402-410.	17.5	293
6	In vivo base editing rescues Hutchinsonâ€“Gilford progeria syndrome in mice. <i>Nature</i> , 2021, 589, 608-614.	27.8	275
7	Evaluation and minimization of Cas9-independent off-target DNA editing by cytosine base editors. <i>Nature Biotechnology</i> , 2020, 38, 620-628.	17.5	272
8	Engineered virus-like particles for efficient in vivo delivery of therapeutic proteins. <i>Cell</i> , 2022, 185, 250-265.e16.	28.9	251
9	Continuous evolution of SpCas9 variants compatible with non-G PAMs. <i>Nature Biotechnology</i> , 2020, 38, 471-481.	17.5	234
10	Continuous evolution of base editors with expanded target compatibility and improved activity. <i>Nature Biotechnology</i> , 2019, 37, 1070-1079.	17.5	215
11	Base editing of haematopoietic stem cells rescues sickle cell disease in mice. <i>Nature</i> , 2021, 595, 295-302.	27.8	175
12	Cross-Kingdom Chemical Communication Drives a Heritable, Mutually Beneficial Prion-Based Transformation of Metabolism. <i>Cell</i> , 2014, 158, 1083-1093.	28.9	158
13	Blessings in disguise: biological benefits of prion-like mechanisms. <i>Trends in Cell Biology</i> , 2013, 23, 251-259.	7.9	130
14	Efficient C-to-G base editors developed using CRISPRi screens, target-library analysis, and machine learning. <i>Nature Biotechnology</i> , 2021, 39, 1414-1425.	17.5	118
15	In vivo base editing restores sensory transduction and transiently improves auditory function in a mouse model of recessive deafness. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	114
16	Restoration of visual function in adult mice with an inherited retinal disease via adenine base editing. <i>Nature Biomedical Engineering</i> , 2021, 5, 169-178.	22.5	90
17	Precision genome editing using cytosine and adenine base editors in mammalian cells. <i>Nature Protocols</i> , 2021, 16, 1089-1128.	12.0	90
18	In vivo somatic cell base editing and prime editing. <i>Molecular Therapy</i> , 2021, 29, 3107-3124.	8.2	87

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19	Base Editor Correction of COL7A1 in Recessive Dystrophic Epidermolysis Bullosa Patient-Derived Fibroblasts and iPSCs. <i>Journal of Investigative Dermatology</i> , 2020, 140, 338-347.e5.	0.7	69
20	Chemical modifications of adenine base editor mRNA and guide RNA expand its application scope. <i>Nature Communications</i> , 2020, 11, 1979.	12.8	66
21	Prime editing in mice reveals the essentiality of a single base in driving tissue-specific gene expression. <i>Genome Biology</i> , 2021, 22, 83.	8.8	62
22	A Genetic Tool to Track Protein Aggregates and Control Prion Inheritance. <i>Cell</i> , 2017, 171, 966-979.e18.	28.9	61
23	In vivo base editing rescues cone photoreceptors in a mouse model of early-onset inherited retinal degeneration. <i>Nature Communications</i> , 2022, 13, 1830.	12.8	42
24	Functional correction of CFTR mutations in human airway epithelial cells using adenine base editors. <i>Nucleic Acids Research</i> , 2021, 49, 10558-10572.	14.5	25
25	Disruption of HIV-1 co-receptors CCR5 and CXCR4 in primary human T cells and hematopoietic stem and progenitor cells using base editing. <i>Molecular Therapy</i> , 2022, 30, 130-144.	8.2	23
26	Pioneer cells established by the [SWI+] prion can promote dispersal and out-crossing in yeast. <i>PLoS Biology</i> , 2017, 15, e2003476.	5.6	15
27	Prioritization of autoimmune disease-associated genetic variants that perturb regulatory element activity in T cells. <i>Nature Genetics</i> , 2022, 54, 603-612.	21.4	15
28	Microbial specialization by prions. <i>Prion</i> , 2018, 12, 157-161.	1.8	10
29	Adenosine Base Editing of β -Globin Promoters Induces Fetal Hemoglobin and Inhibit Erythroid Sickling. <i>Blood</i> , 2020, 136, 21-22.	1.4	8
30	Base Editing: Efficient Installation of Point Mutations with Minimal Byproducts. <i>Stem Cells and Development</i> , 2019, 28, 712-713.	2.1	0