Gregory A Newby

List of Publications by Year
in descending order

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	Engineered pegRNAs improve prime editing efficiency. Nature Biotechnology, 2022, 40, 402-410.	17.5	293
2	Disruption of HIV-1 co-receptors CCR5 and CXCR4 in primary human TÂcells and hematopoietic stem and progenitor cells using base editing. Molecular Therapy, 2022, 30, 130-144.	8.2	23
3	Engineered virus-like particles for efficient inÂvivo delivery of therapeutic proteins. Cell, 2022, 185, 250-265.e16.	28.9	251
4	In vivo base editing rescues cone photoreceptors in a mouse model of early-onset inherited retinal degeneration. Nature Communications, 2022, 13, 1830.	12.8	42
5	Prioritization of autoimmune disease-associated genetic variants that perturb regulatory element activity in T cells. Nature Genetics, 2022, 54, 603-612.	21.4	15
6	Restoration of visual function in adult mice with an inherited retinal disease via adenine base editing. Nature Biomedical Engineering, 2021, 5, 169-178.	22.5	90
7	Precision genome editing using cytosine and adenine base editors in mammalian cells. Nature Protocols, 2021, 16, 1089-1128.	12.0	90
8	In vivo base editing rescues Hutchinsonâ€"Gilford progeria syndrome in mice. Nature, 2021, 589, 608-614.	27.8	275
9	Prime editing in mice reveals the essentiality of a single base in driving tissue-specific gene expression. Genome Biology, 2021, 22, 83.	8.8	62
10	Base editing of haematopoietic stem cells rescues sickle cell disease in mice. Nature, 2021, 595, 295-302.	27.8	175
11	Efficient Câ€¢G-to-Gâ€¢C base editors developed using CRISPRi screens, target-library analysis, and machine learning. Nature Biotechnology, 2021, 39, 1414-1425.	17.5	118
12	InÂvivo somatic cell base editing and prime editing. Molecular Therapy, 2021, 29, 3107-3124.	8.2	87
13	Functional correction of<i>CFTR</i>mutations in human airway epithelial cells using adenine base editors. Nucleic Acids Research, 2021, 49, 10558-10572.	14.5	25
14	Enhanced prime editing systems by manipulating cellular determinants of editing outcomes. Cell, 2021, 184, 5635-5652.e29.	28.9	332
15	Base Editor Correction of COL7A1 in RecessiveÂDystrophic Epidermolysis Bullosa Patient-Derived Fibroblasts and iPSCs. Journal of Investigative Dermatology, 2020, 140, 338-347.e5.	0.7	69
16	In vivo base editing restores sensory transduction and transiently improves auditory function in a mouse model of recessive deafness. Science Translational Medicine, 2020, 12, .	12.4	114
17	Phage-assisted evolution of an adenine base editor with improved Cas domain compatibility and activity. Nature Biotechnology, 2020, 38, 883-891.	17.5	502
18	Continuous evolution of SpCas9 variants compatible with non-G PAMs. Nature Biotechnology, 2020, 38, 471-481.	17.5	234

#	Article	IF	Citations
19	Evaluation and minimization of Cas9-independent off-target DNA editing by cytosine base editors. Nature Biotechnology, 2020, 38, 620-628.	17.5	272
20	Chemical modifications of adenine base editor mRNA and guide RNA expand its application scope. Nature Communications, 2020, 11, 1979.	12.8	66
21	Adenosine Base Editing of Î³-Globin Promoters Induces Fetal Hemoglobin and Inhibit Erythroid Sickling. Blood, 2020, 136, 21-22.	1.4	8
22	Continuous evolution of base editors with expanded target compatibility and improved activity. Nature Biotechnology, 2019, 37, 1070-1079.	17.5	215
23	Search-and-replace genome editing without double-strand breaks or donor DNA. Nature, 2019, 576, 149-157.	27.8	2,662
24	Base Editing: Efficient Installation of Point Mutations with Minimal Byproducts. Stem Cells and Development, 2019, 28, 712-713.	2.1	0
25	Improving cytidine and adenine base editors by expression optimization and ancestral reconstruction. Nature Biotechnology, 2018, 36, 843-846.	17.5	644
26	Microbial specialization by prions. Prion, 2018, 12, 157-161.	1.8	10
27	A Genetic Tool to Track Protein Aggregates and Control Prion Inheritance. Cell, 2017, 171, 966-979.e18.	28.9	61
28	Pioneer cells established by the [SWI+] prion can promote dispersal and out-crossing in yeast. PLoS Biology, 2017, 15, e2003476.	5.6	15
29	Cross-Kingdom Chemical Communication Drives a Heritable, Mutually Beneficial Prion-Based Transformation of Metabolism. Cell, 2014, 158, 1083-1093.	28.9	158
30	Blessings in disguise: biological benefits of prion-like mechanisms. Trends in Cell Biology, 2013, 23, 251-259.	7.9	130