

Programmable base editing of A↔T to G↔C in genom

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Enhancing the RNA engineering toolkit. <i>Science</i> , 2017, 358, 996-997.	6.0	21
3	Engineering the <i>Drosophila</i> Genome for Developmental Biology. <i>Journal of Developmental Biology</i> , 2017, 5, 16.	0.9	19
4	Genome Editing Tools in Plants. <i>Genes</i> , 2017, 8, 399.	1.0	63
5	Precise A→T to G→C Base Editing in the Rice Genome. <i>Molecular Plant</i> , 2018, 11, 627-630.	3.9	195
6	Highly Efficient A→T to G→C Base Editing by Cas9n-Guided tRNA Adenosine Deaminase in Rice. <i>Molecular Plant</i> , 2018, 11, 631-634.	3.9	177
7	Highly efficient base editing in <i>Staphylococcus aureus</i> using an engineered CRISPR RNA-guided cytidine deaminase. <i>Chemical Science</i> , 2018, 9, 3248-3253.	3.7	64
8	Precision genome engineering through adenine and cytosine base editing. <i>Nature Plants</i> , 2018, 4, 148-151.	4.7	69
9	Evolved Cas9 variants with broad PAM compatibility and high DNA specificity. <i>Nature</i> , 2018, 556, 57-63.	13.7	1,195
10	New tools for old drugs: Functional genetic screens to optimize current chemotherapy. <i>Drug Resistance Updates</i> , 2018, 36, 30-46.	6.5	33
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12	Strategies for In Vivo Genome Editing in Nondividing Cells. <i>Trends in Biotechnology</i> , 2018, 36, 770-786.	4.9	58
13	Clustered regularly interspaced short palindromic repeats (CRISPR)/CRISPR-associated protein 9 with improved proof-reading enhances homology-directed repair. <i>Nucleic Acids Research</i> , 2018, 46, 4677-4688.	6.5	65
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17	In vivo genome editing of ANGPTL3: a therapy for atherosclerosis?. <i>Nature Reviews Cardiology</i> , 2018, 15, 259-260.	6.1	10
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19	Development and application of CRISPR/Cas9 technologies in genomic editing. <i>Human Molecular Genetics</i> , 2018, 27, R79-R88.	1.4	47

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21	Harnessing natural DNA modifying activities for editing of the genome and epigenome. Current Opinion in Chemical Biology, 2018, 45, 10-17.	2.8	12
22	Genome Editing B.C. (Before CRISPR): Lasting Lessons from the "Old Testament". CRISPR Journal, 2018, 1, 34-46.	1.4	52
23	Paediatric genomics: diagnosing rare disease in children. Nature Reviews Genetics, 2018, 19, 253-268.	7.7	369
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1248	Wide Horizons of CRISPR-Cas-Derived Technologies for Basic Biology, Agriculture, and Medicine. <i>Springer Protocols</i> , 2020, , 1-23.	0.1	15
1250	Light-Inducible CRISPR Labeling. <i>Methods in Molecular Biology</i> , 2020, 2173, 137-150.	0.4	1
1251	CRISPR/Cas9 Editing in Induced Pluripotent Stem Cells: A Way Forward for Treating Cystic Fibrosis?. , 2019, , 153-178.		2
1252	Application of CRISPR-Cas9 Screening Technologies to Study Mitochondrial Biology in Healthy and Disease States. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1158, 269-277.	0.8	2
1253	Animal Model Contributions to Congenital Metabolic Disease. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1236, 225-244.	0.8	13
1254	CRISPR-Cas systems: Overview, innovations and applications in human disease research and gene therapy. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 2401-2415.	1.9	100
1255	CRISPR screens in the era of microbiomes. <i>Current Opinion in Microbiology</i> , 2020, 57, 70-77.	2.3	15
1256	Celebrating Rosalind Franklin's Centennial with a Nobel Win for Doudna and Charpentier. <i>Molecular Therapy</i> , 2020, 28, 2519-2520.	3.7	2
1257	CRISPR hacks enable pinpoint repairs to genome. <i>Nature</i> , 2017, 550, 439-440.	13.7	5
1258	Engineer chimeric Cas9 to expand PAM recognition based on evolutionary information. <i>Nature Communications</i> , 2019, 10, 560.	5.8	43
1259	Base editors for simultaneous introduction of C-to-T and A-to-G mutations. <i>Nature Biotechnology</i> , 2020, 38, 865-869.	9.4	137
1260	Targeted point mutations of the m6A modification in miR675 using RNA-guided base editing induce cell apoptosis. <i>Bioscience Reports</i> , 2020, 40, .	1.1	7
1261	Gene editing and CRISPR in the clinic: current and future perspectives. <i>Bioscience Reports</i> , 2020, 40, .	1.1	122
1262	Editor's cut: DNA cleavage by CRISPR RNA-guided nucleases Cas9 and Cas12a. <i>Biochemical Society Transactions</i> , 2020, 48, 207-219.	1.6	14
1263	CRISPR-based gene expression control for synthetic gene circuits. <i>Biochemical Society Transactions</i> , 2020, 48, 1979-1993.	1.6	30
1264	Base editors: modular tools for the introduction of point mutations in living cells. <i>Emerging Topics in Life Sciences</i> , 2019, 3, 483-491.	1.1	15
1265	Efficient CRISPR-mediated base editing in <i>Agrobacterium</i> spp.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	38

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1267	Advances in actinomycete research: an ActinoBase review of 2019. <i>Microbiology (United Kingdom)</i> , 2020, 166, 683-694.	0.7	20
1312	A most formidable arsenal: genetic technologies for building a better mouse. <i>Genes and Development</i> , 2020, 34, 1256-1286.	2.7	24
1313	When genome editing goes off-target. <i>Science</i> , 2019, 364, 234-236.	6.0	18
1314	A recurrent COL6A1 pseudoexon insertion causes muscular dystrophy and is effectively targeted by splice-correction therapies. <i>JCI Insight</i> , 2019, 4, .	2.3	33
1315	Correction of muscular dystrophies by CRISPR gene editing. <i>Journal of Clinical Investigation</i> , 2020, 130, 2766-2776.	3.9	60
1316	Therapeutic applications of CRISPR/Cas9 in breast cancer and delivery potential of gold nanomaterials. <i>Nanobiomedicine</i> , 2020, 7, 184954352098319.	4.4	14
1317	Advances in Nutritional Epigeneticsâ€™ A Fresh Perspective for an Old Idea. <i>Lessons Learned, Limitations, and Future Directions. Epigenetics Insights</i> , 2020, 13, 251686572098192.	0.6	16
1318	CRISPR/Cas: a potential gene-editing tool in the nervous system. <i>Cell Regeneration</i> , 2020, 9, 12.	1.1	8
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1320	Recent advances in primary immunodeficiency: from molecular diagnosis to treatment. <i>F1000Research</i> , 2020, 9, 194.	0.8	21
1321	CRISPR-based strategies for targeted transgene knock-in and gene correction. <i>Faculty Reviews</i> , 2020, 9, 20.	1.7	8
1322	Base Editing. <i>Materials and Methods</i> , 0, 9, .	0.0	2
1324	Brain Somatic Mutations in Epileptic Disorders. <i>Molecules and Cells</i> , 2018, 41, 881-888.	1.0	18
1325	CRISPR and Target-Specific DNA Endonucleases for Efficient DNA Knock-in in Eukaryotic Genomes. <i>Molecules and Cells</i> , 2018, 41, 943-952.	1.0	22
1326	Base editing in pigs for precision breeding. <i>Frontiers of Agricultural Science and Engineering</i> , 2020, 7, 161.	0.9	6
1327	Base editors: a powerful tool for generating animal models of human diseases. <i>Cell Stress</i> , 2018, 2, 242-245.	1.4	2
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1330	Engineered Probiotic and Prebiotic Nutraceutical Supplementations in Combating Non-communicable Disorders: A Review. <i>Current Pharmaceutical Biotechnology</i> , 2022, 23, 72-97.	0.9	3
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1332	MagnEditâ€™interacting factors that recruit DNA-editing enzymes to single base targets. <i>Life Science Alliance</i> , 2020, 3, e201900606.	1.3	7
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1334	Precision Genome Engineering for the Breeding of Tomatoes: Recent Progress and Future Perspectives. <i>Frontiers in Genome Editing</i> , 2020, 2, 612137.	2.7	17
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1337	New Strategies to Overcome Present CRISPR/Cas9 Limitations in Apple and Pear: Efficient Dechimerization and Base Editing. <i>International Journal of Molecular Sciences</i> , 2021, 22, 319.	1.8	53
1338	Plant Biosystems Design Research Roadmap 1.0. <i>Biodesign Research</i> , 2020, 2020, .	0.8	16
1339	Prime Editing Technology and Its Prospects for Future Applications in Plant Biology Research. <i>Biodesign Research</i> , 2020, 2020, .	0.8	34
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1341	Raising Climate-Resilient Crops: Journey From the Conventional Breeding to New Breeding Approaches. <i>Current Genomics</i> , 2021, 22, 450-467.	0.7	7
1342	Human cell based directed evolution of adenine base editors with improved efficiency. <i>Nature Communications</i> , 2021, 12, 5897.	5.8	15
1343	Controllable genome editing with split-engineered base editors. <i>Nature Chemical Biology</i> , 2021, 17, 1262-1270.	3.9	31
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1349	CRISPR-derived genome editing therapies: Progress from bench to bedside. <i>Molecular Therapy</i> , 2021, 29, 3125-3139.	3.7	14
1350	C-to-G Base Editing Enhances Oleic Acid Production by Generating Novel Alleles of FATTY ACID DESATURASE 2 in Plants. <i>Frontiers in Plant Science</i> , 2021, 12, 748529.	1.7	4
1352	Gene Editing Technologies for Sugarcane Improvement: Opportunities and Limitations. <i>Sugar Tech</i> , 2022, 24, 369-385.	0.9	9
1353	Cash Crops: An Introduction. , 2022, , 1-19.		3
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1357	Efficient Multi-Sites Genome Editing and Plant Regeneration via Somatic Embryogenesis in <i>Picea glauca</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 751891.	1.7	15
1358	Genome editing of <i>Corynebacterium glutamicum</i> mediated with Cpf1 plus Ku/LigD. <i>Biotechnology Letters</i> , 2021, 43, 2273-2281.	1.1	3
1359	Prenatal Gene Therapy for Metabolic Disorders. <i>Clinical Obstetrics and Gynecology</i> , 2021, 64, 904-916.	0.6	1
1360	Reconstruction of evolving gene variants and fitness from short sequencing reads. <i>Nature Chemical Biology</i> , 2021, 17, 1188-1198.	3.9	8
1361	The Generic Risks and the Potential of SDN-1 Applications in Crop Plants. <i>Plants</i> , 2021, 10, 2259.	1.6	10
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1381	CRISPR-based Technologies for Genome Engineering: Properties, Current Improvements and Applications in Medicine. <i>RSC Drug Discovery Series</i> , 2019, , 400-433.	0.2	1
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1383	Pin-point base editing for next generation breeding. <i>Japanese Journal of Pesticide Science</i> , 2019, 44, 59-64.	0.0	0
1391	The CRISPR System and Cancer Immunotherapy Biomarkers. <i>Methods in Molecular Biology</i> , 2020, 2055, 301-322.	0.4	2
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1408	Increasing the efficiency and precision of prime editing with guide RNA pairs. <i>Nature Chemical Biology</i> , 2022, 18, 29-37.	3.9	60
1409	Gene therapy for cystic fibrosis: new tools for precision medicine. <i>Journal of Translational Medicine</i> , 2021, 19, 452.	1.8	23
1410	Progress in Gene Editing Tools and Their Potential for Correcting Mutations Underlying Hearing and Vision Loss. <i>Frontiers in Genome Editing</i> , 2021, 3, 737632.	2.7	13
1413	Single-Cell Technologies for Cancer Therapy. , 2022, , 767-850.		0
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1419	Gene Editing for CF. <i>Respiratory Medicine</i> , 2020, , 503-514.	0.1	0
1420	TRPC3-Based Protein Signaling Complex as a Therapeutic Target of Myocardial Atrophy. <i>Current Molecular Pharmacology</i> , 2020, 14, 123-131.	0.7	7
1421	PROSPECTS FOR GENE EDITING USING CRISPR/CAS, OR HOW TO MASTER THE GENETIC SCISSORS Nobel Prize in Chemistry for 2020. <i>Visnik Nacional Noi Akademii Nauk Ukrai Ni</i> , 2020, , 31-49.	0.0	0
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1427	Search-and-replace editing of genetic information. <i>Frontiers of Agricultural Science and Engineering</i> , 2020, 7, 231.	0.9	0
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1444	Functional pre-therapeutic evaluation by genome editing of variants of uncertain significance of essential tumor suppressor genes. <i>Genome Medicine</i> , 2021, 13, 174.	3.6	2
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1461	THE GORDON WILSON LECTURE: THE ETHICS OF HUMAN GENOME EDITING. Transactions of the American Clinical and Climatological Association, 2020, 131, 99-118.	0.9	1
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1464	Expansion of methods of gene editing therapy and analysis of safety and efficacy. , 2022, , 155-179.		0
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1482	A split cytosine deaminase architecture enables robust inducible base editing. <i>FASEB Journal</i> , 2021, 35, e22045.	0.2	7
1483	Simultaneous high-efficiency base editing and reprogramming of patient fibroblasts. <i>Stem Cell Reports</i> , 2021, 16, 3064-3075.	2.3	8
1484	CRISPR/Cas9-Mediated Gene Editing in Porcine Models for Medical Research. <i>DNA and Cell Biology</i> , 2021, 40, 1462-1475.	0.9	6
1485	Brain Pathogenesis and Potential Therapeutic Strategies in Myotonic Dystrophy Type 1. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 755392.	1.7	5
1486	Modulating CRISPR/Cas9 genome-editing activity by small molecules. <i>Drug Discovery Today</i> , 2022, 27, 951-966.	3.2	12
1487	Molecular Mechanism of the Cytosine CRISPR Base Editing Process and the Roles of Translesion DNA Polymerases. <i>ACS Synthetic Biology</i> , 2021, 10, 3353-3358.	1.9	10
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1491	The potential of gene therapy for recessive dystrophic epidermolysis bullosa*. <i>British Journal of Dermatology</i> , 2022, 186, 609-619.	1.4	9
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1494	The application of new breeding technology based on gene editing in pig industry – A review. <i>Animal Bioscience</i> , 2022, 35, 791-803.	0.8	8
1495	Base Editing of Human Pluripotent Stem Cells for Modeling Long QT Syndrome. <i>Stem Cell Reviews and Reports</i> , 2022, 18, 1434-1443.	1.7	4
1496	Adenine base-editing-mediated exon skipping induces gene knockout in cultured pig cells. <i>Biotechnology Letters</i> , 2022, 44, 59-76.	1.1	4
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1499	A New Era in Herbicide-Tolerant Crops Development by Targeted Genome Editing. <i>ACS Agricultural Science and Technology</i> , 2022, 2, 184-191.	1.0	4
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1501	Review of gene therapies for age-related macular degeneration. <i>Eye</i> , 2022, 36, 303-311.	1.1	38
1502	CRISPR/Cas9 ribonucleoprotein-mediated genome and epigenome editing in mammalian cells. <i>Advanced Drug Delivery Reviews</i> , 2022, 181, 114087.	6.6	18
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1509	Green Fluorescent Protein Tagged Polycistronic Reporter System Reveals Functional Editing Characteristics of CRISPR-Cas. <i>CRISPR Journal</i> , 2022, 5, 254-263.	1.4	1
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1512	Updates on CRISPR-based gene editing in HIV-1/AIDS therapy. <i>Virologica Sinica</i> , 2022, 37, 1-10.	1.2	8
1513	Advances in protein engineering and its application in synthetic biology. , 2022, , 147-158.		1
1514	Efficient Genome Editing in <i>Setaria italica</i> Using CRISPR/Cas9 and Base Editors. <i>Frontiers in Plant Science</i> , 2021, 12, 815946.	1.7	13
1516	The CRISPR-Cas toolbox and gene editing technologies. <i>Molecular Cell</i> , 2022, 82, 333-347.	4.5	151
1517	In silico analysis of potential off-target sites to gene editing for Mucopolysaccharidosis type I using the CRISPR/Cas9 system: Implications for population-specific treatments. <i>PLoS ONE</i> , 2022, 17, e0262299.	1.1	3
1518	Parallel functional assessment of m6A sites in human endodermal differentiation with base editor screens. <i>Nature Communications</i> , 2022, 13, 478.	5.8	8
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1521	From Genome Sequencing to CRISPR-Based Genome Editing for Climate-Resilient Forest Trees. <i>International Journal of Molecular Sciences</i> , 2022, 23, 966.	1.8	16
1522	Highly Efficient Genome Editing in Plant Protoplasts by Ribonucleoprotein Delivery of CRISPR-Cas12a Nucleases. <i>Frontiers in Genome Editing</i> , 2022, 4, 780238.	2.7	21
1523	An update on precision genome editing by homology-directed repair in plants. <i>Plant Physiology</i> , 2022, 188, 1780-1794.	2.3	18
1524	Monitoring and modulation of the tumor microenvironment for enhanced cancer modeling. <i>Experimental Biology and Medicine</i> , 2022, 247, 598-613.	1.1	0
1525	High-throughput methods for genome editing: the more the better. <i>Plant Physiology</i> , 2022, 188, 1731-1745.	2.3	10
1526	Targeting Cancer with CRISPR/Cas9-Based Therapy. <i>International Journal of Molecular Sciences</i> , 2022, 23, 573.	1.8	18
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2104	Application of Base Editor-Mediated Genome Editing in Mouse Retina. <i>Methods in Molecular Biology</i> , 2023, , 179-188.	0.4	0
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2107	A CRISPR way for accelerating cereal crop improvement: Progress and challenges. <i>Frontiers in Genetics</i> , 0, 13, .	1.1	10
2108	CRISPR/Cas9-mediated gene editing. A promising strategy in hematological disorders. <i>Cytotherapy</i> , 2023, 25, 277-285.	0.3	4
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