

# Genome engineering using the CRISPR-Cas9 system

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Citation Report

#	ARTICLE	IF	CITATIONS
6	Adopting Network Analysis Methods for Contextual Inquiry: the Keyword Structure Representation of a Web Behavior. Proceedings of the Human Factors and Ergonomics Society, 2012, 56, 1609-1613.	0.2	4
7	A Hypothesis for Regenerative Therapy for Neuronal Disease: Stem Cells within Artificial Niche. Current Signal Transduction Therapy, 2014, 9, 38-43.	0.3	0
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10	CRISPRseek: A Bioconductor Package to Identify Target-Specific Guide RNAs for CRISPR-Cas9 Genome-Editing Systems. PLoS ONE, 2014, 9, e108424.	1.1	169
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25	Making designer mutants in model organisms. <i>Development (Cambridge)</i> , 2014, 141, 4042-4054.	1.2	105
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27	Imaging Genomic Elements in Living Cells Using CRISPR/Cas9. <i>Methods in Enzymology</i> , 2014, 546, 337-354.	0.4	30
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1883	Generation of PTEN knock-out (KO) murine prostate cancer cells using the CRISPR/Cas9 system and comprehensive gene expression profiling. <i>Oncology Reports</i> , 2018, 40, 2455-2466.	1.2	13
1884	Genetic Code Expansion Method for Temporal Labeling of Endogenously Expressed Proteins. <i>ACS Chemical Biology</i> , 2018, 13, 3049-3053.	1.6	5
1885	Disrupted alternative splicing for genes implicated in splicing and ciliogenesis causes PRPF31 retinitis pigmentosa. <i>Nature Communications</i> , 2018, 9, 4234.	5.8	158
1886	High fidelity CRISPR/Cas9 increases precise monoallelic and biallelic editing events in primordial germ cells. <i>Scientific Reports</i> , 2018, 8, 15126.	1.6	40
1887	Transient Retrovirus-Based CRISPR/Cas9 All-in-One Particles for Efficient, Targeted Gene Knockout. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 13, 256-274.	2.3	34
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1893	Defective Mitochondrial Cardiolipin Remodeling Dampens HIF-1 $\alpha$ Expression in Hypoxia. <i>Cell Reports</i> , 2018, 25, 561-570.e6.	2.9	42
1894	Discovery of the actinoplancic acid pathway in <i>Streptomyces rapamycinicus</i> reveals a genetically conserved synergism with rapamycin. <i>Journal of Biological Chemistry</i> , 2018, 293, 19982-19995.	1.6	13
1895	Identification of a cellularly active SIRT6 allosteric activator. <i>Nature Chemical Biology</i> , 2018, 14, 1118-1126.	3.9	193
1896	Structural reorganization of SHP2 by oncogenic mutations and implications for oncoprotein resistance to allosteric inhibition. <i>Nature Communications</i> , 2018, 9, 4508.	5.8	106
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1902	Long non-coding RNA ChRO1 facilitates ATRX/DAXX-dependent H3.3 deposition for transcription-associated heterochromatin reorganization. <i>Nucleic Acids Research</i> , 2018, 46, 11759-11775.	6.5	37
1903	Harnessing accurate non-homologous end joining for efficient precise deletion in CRISPR/Cas9-mediated genome editing. <i>Genome Biology</i> , 2018, 19, 170.	3.8	96
1904	Up-regulated miR-133a orchestrates epithelial-mesenchymal transition of airway epithelial cells. <i>Scientific Reports</i> , 2018, 8, 15543.	1.6	14
1905	Three-Component Repurposed Technology for Enhanced Expression: Highly Accumulable Transcriptional Activators via Branched Tag Arrays. <i>CRISPR Journal</i> , 2018, 1, 337-347.	1.4	29
1906	Cells respond to deletion of CAV1 by increasing synthesis of extracellular matrix. <i>PLoS ONE</i> , 2018, 13, e0205306.	1.1	5
1907	Rapid functional genetics of the oligodendrocyte lineage using pluripotent stem cells. <i>Nature Communications</i> , 2018, 9, 3708.	5.8	20
1908	Construction of a Selectable Marker Recycling System and the Use in Epitope Tagging of Multiple Nuclear Genes in the Unicellular Red Alga <i>Cyanidioschyzon merolae</i> . <i>Plant and Cell Physiology</i> , 2018, 59, 2308-2316.	1.5	14
1909	In Vivo Genome Editing as a Therapeutic Approach. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2721.	1.8	57
1910	Aspirin cooperates with p300 to activate the acetylation of H3K9 and promote FasL-mediated apoptosis of cancer stem-like cells in colorectal cancer. <i>Theranostics</i> , 2018, 8, 4447-4461.	4.6	29
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1912	CRISPRa-mediated NEAT1 lncRNA upregulation induces formation of intact paraspeckles. <i>Biochemical and Biophysical Research Communications</i> , 2018, 504, 218-224.	1.0	19
1913	CRISPR/Cas9-mediated Stearoyl-CoA Desaturase 1 (SCD1) Deficiency Affects Fatty Acid Metabolism in Goat Mammary Epithelial Cells. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 10041-10052.	2.4	42
1914	Inhibition of calpain-1 stabilizes TCF11/Nrf1 but does not affect its activation in response to proteasome inhibition. <i>Bioscience Reports</i> , 2018, 38, .	1.1	8
1915	The erlin2 T65I mutation inhibits erlin1/2 complex-mediated inositol 1,4,5-trisphosphate receptor ubiquitination and phosphatidylinositol 3-phosphate binding. <i>Journal of Biological Chemistry</i> , 2018, 293, 15706-15714.	1.6	30
1916	Inheritance of $\langle scp \rangle OCT \langle /scp \rangle$ 4 predetermines fate choice in human embryonic stem cells. <i>Molecular Systems Biology</i> , 2018, 14, e8140.	3.2	27
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1919	Staufen1 links RNA stress granules and autophagy in a model of neurodegeneration. <i>Nature Communications</i> , 2018, 9, 3648.	5.8	75
1920	Multiple Histone Methyl-Lysine Readers Ensure Robust Development and Germline Immortality in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2018, 210, 907-923.	1.2	15
1921	Cell Therapies: New Frontier for the Management of Diabetic Foot Ulceration. <i>Contemporary Diabetes</i> , 2018, , 219-235.	0.0	0
1922	CRISPR-delivery particles targeting nuclear receptor-interacting protein 1 (Nrip1) in adipose cells to enhance energy expenditure. <i>Journal of Biological Chemistry</i> , 2018, 293, 17291-17305.	1.6	43
1923	The inositol phosphatase SHIP2 enables sustained ERK activation downstream of FGF receptors by recruiting Src kinases. <i>Science Signaling</i> , 2018, 11, .	1.6	14
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1925	Highly multiplexed genome engineering using CRISPR/Cas9 gRNA arrays. <i>PLoS ONE</i> , 2018, 13, e0198714.	1.1	46
1926	Detecting and typing target DNA with a novel CRISPR-typing PCR (ctPCR) technique. <i>Analytical Biochemistry</i> , 2018, 561-562, 37-46.	1.1	35
1927	LC3-Associated Phagocytosis in Myeloid Cells Promotes Tumor Immune Tolerance. <i>Cell</i> , 2018, 175, 429-441.e16.	13.5	242
1928	Targeted genome fragmentation with CRISPR/Cas9 enables fast and efficient enrichment of small genomic regions and ultra-accurate sequencing with low DNA input (CRISPR-DS). <i>Genome Research</i> , 2018, 28, 1589-1599.	2.4	45
1929	Anthropoid primate-specific retroviral element THE1B controls expression of CRH in placenta and alters gestation length. <i>PLoS Biology</i> , 2018, 16, e2006337.	2.6	67
1930	IQGAP1 binds the Axl receptor kinase and inhibits its signaling. <i>Biochemical Journal</i> , 2018, 475, 3073-3086.	1.7	5
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1932	<i>OXA</i> 1L mutations cause mitochondrial encephalopathy and a combined oxidative phosphorylation defect. <i>EMBO Molecular Medicine</i> , 2018, 10, .	3.3	54
1933	Efficient Production and Identification of CRISPR/Cas9-generated Gene Knockouts in the Model System <i>Danio rerio</i> . <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	16
1934	Accurate classification of BRCA1 variants with saturation genome editing. <i>Nature</i> , 2018, 562, 217-222.	13.7	570
1935	Polygenic Analysis in Absence of Major Effector <i>ATF1</i> Unveils Novel Components in Yeast Flavor Ester Biosynthesis. <i>MBio</i> , 2018, 9, .	1.8	24

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1937	Transcription coactivator Cited1 acts as an inducer of trophoblast-like state from mouse embryonic stem cells through the activation of BMP signaling. <i>Cell Death and Disease</i> , 2018, 9, 924.	2.7	9
1938	Delivery approaches for CRISPR/Cas9 therapeutics <i>in vivo</i> : advances and challenges. <i>Expert Opinion on Drug Delivery</i> , 2018, 15, 905-913.	2.4	98
1939	3-Aminobenzamide Prevents Concanavalin A-Induced Acute Hepatitis by an Anti-inflammatory and Anti-oxidative Mechanism. <i>Digestive Diseases and Sciences</i> , 2018, 63, 3382-3397.	1.1	9
1940	Autophagy participates in innate immune defense in lamprey. <i>Fish and Shellfish Immunology</i> , 2018, 83, 416-424.	1.6	17
1941	A genome editing vector that enables easy selection and identification of knockout cells. <i>Plasmid</i> , 2018, 98, 37-44.	0.4	9
1942	Quantitative assessment of HR and NHEJ activities via CRISPR/Cas9-induced oligodeoxynucleotide-mediated DSB repair. <i>DNA Repair</i> , 2018, 70, 67-71.	1.3	26
1943	On the relation between filament density, force generation, and protrusion rate in mesenchymal cell motility. <i>Molecular Biology of the Cell</i> , 2018, 29, 2674-2686.	0.9	24
1944	Establishing a dual knock-out cell line by lentivirus based combined CRISPR/Cas9 and Loxp/Cre system. <i>Cytotechnology</i> , 2018, 70, 1595-1605.	0.7	4
1945	Genome Editing in Mice Using CRISPR/Cas9 Technology. <i>Current Protocols in Cell Biology</i> , 2018, 81, e57.	2.3	20
1946	The Protein Coded by a Short Open Reading Frame, Not by the Annotated Coding Sequence, Is the Main Gene Product of the Dual-Coding Gene MIEF1. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 2402-2411.	2.5	44
1947	Imaging dynamic and selective low-complexity domain interactions that control gene transcription. <i>Science</i> , 2018, 361, .	6.0	750
1948	<i>Rnf220</i> cooperates with <i>Zc4h2</i> to specify spinal progenitor domains. <i>Development (Cambridge)</i> , 2018, 145, .	1.2	24
1949	A feed forward loop enforces YAP/TAZ signaling during tumorigenesis. <i>Nature Communications</i> , 2018, 9, 3510.	5.8	75
1950	Polycomb repressive complex 1 shapes the nucleosome landscape but not accessibility at target genes. <i>Genome Research</i> , 2018, 28, 1494-1507.	2.4	72
1951	Possible Involvement of Mitochondrial Dysfunction and Oxidative Stress in a Cellular Model of NAFLD Progression Induced by Benzo[a]pyrene/Ethanol CoExposure. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-18.	1.9	32
1952	Robust CRISPR/Cas9 Genome Editing of the HUDEP-2 Erythroid Precursor Line Using Plasmids and Single-Stranded Oligonucleotide Donors. <i>Methods and Protocols</i> , 2018, 1, 28.	0.9	17
1953	Generation and Analysis of Striated Muscle Selective LINC Complex Protein Mutant Mice. <i>Methods in Molecular Biology</i> , 2018, 1840, 251-281.	0.4	2

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1956	PAM forms an atypical SCF ubiquitin ligase complex that ubiquitinates and degrades NMNAT2. <i>Journal of Biological Chemistry</i> , 2018, 293, 13897-13909.	1.6	31
1957	Double genetic disruption of lactate dehydrogenases A and B is required to ablate the "Warburg effect" restricting tumor growth to oxidative metabolism. <i>Journal of Biological Chemistry</i> , 2018, 293, 15947-15961.	1.6	160
1958	Aberrant Expression of miR-362 Promotes Lung Cancer Metastasis through Downregulation of Sema3A. <i>Journal of Immunology Research</i> , 2018, 2018, 1-10.	0.9	23
1959	Measurement of the Lateral Charge Distribution in Silicon Generated by High-Energy Ion Incidence. , 2018, , .		0
1960	Transformation of oil palm calli using CRISPR/Cas9 System: toward genome editing of oil palm. <i>IOP Conference Series: Earth and Environmental Science</i> , 0, 183, 012003.	0.2	10
1961	In vivo RNAi screening identifies Pafah1b3 as a target for combination therapy with TKIs in BCR-ABL1+ BCP-ALL. <i>Blood Advances</i> , 2018, 2, 1229-1242.	2.5	9
1962	Evaluation of Time Resolution and Comparison of Modern Silicon Photomultipliers. , 2018, , .		1
1963	A CRISPR/Cas9 based engineering strategy for overexpression of multiple genes in Chinese hamster ovary cells. <i>Metabolic Engineering</i> , 2018, 48, 72-81.	3.6	16
1964	The genomic landscape of TERT promoter wildtype-IDH wildtype glioblastoma. <i>Nature Communications</i> , 2018, 9, 2087.	5.8	124
1965	The new normal of structure/function studies in the era of CRISPR/Cas9. <i>Biochemical Journal</i> , 2018, 475, 1635-1642.	1.7	1
1966	HIV-1 Activation of Innate Immunity Depends Strongly on the Intracellular Level of TREX1 and Sensing of Incomplete Reverse Transcription Products. <i>Journal of Virology</i> , 2018, 92, .	1.5	29
1967	HPV Oncogene Manipulation Using Nonvirally Delivered CRISPR/Cas9 or <i>Natronobacterium gregoryi</i> Argonaute. <i>Advanced Science</i> , 2018, 5, 1700540.	5.6	78
1968	High-throughput screening of prostate cancer risk loci by single nucleotide polymorphisms sequencing. <i>Nature Communications</i> , 2018, 9, 2022.	5.8	66
1969	Derivation and characterization of a UCP1 reporter human ES cell line. <i>Stem Cell Research</i> , 2018, 30, 12-21.	0.3	5
1970	Integrin $\beta 4$ switches its ligand specificity via distinct conformer-specific activation. <i>Journal of Cell Biology</i> , 2018, 217, 2799-2812.	2.3	29
1971	A novel role for PTK2B in cultured beige adipocyte differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2018, 501, 851-857.	1.0	13

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1973	An Activity Switch in Human Telomerase Based on RNA Conformation and Shaped by TCAB1. <i>Cell</i> , 2018, 174, 218-230.e13.	13.5	64
1974	Generation and validation of homozygous fluorescent knock-in cells using CRISPR-Cas9 genome editing. <i>Nature Protocols</i> , 2018, 13, 1465-1487.	5.5	99
1975	CRISPR/Cas9 editing of carotenoid genes in tomato. <i>Transgenic Research</i> , 2018, 27, 367-378.	1.3	67
1976	ZFAND1 Recruits p97 and the 26S Proteasome to Promote the Clearance of Arsenite-Induced Stress Granules. <i>Molecular Cell</i> , 2018, 70, 906-919.e7.	4.5	123
1977	Deubiquitinase function of A20 maintains and repairs endothelial barrier after lung vascular injury. <i>Cell Death Discovery</i> , 2018, 4, 60.	2.0	18
1978	STEF/TIAM2-mediated Rac1 activity at the nuclear envelope regulates the perinuclear actin cap. <i>Nature Communications</i> , 2018, 9, 2124.	5.8	45
1979	The CaMKII/NMDA receptor complex controls hippocampal synaptic transmission by kinase-dependent and independent mechanisms. <i>Nature Communications</i> , 2018, 9, 2069.	5.8	110
1980	Amino Acid Variation at VP1-145 of Enterovirus 71 Determines Attachment Receptor Usage and Neurovirulence in Human Scavenger Receptor B2 Transgenic Mice. <i>Journal of Virology</i> , 2018, 92, .	1.5	44
1981	The Tumor Suppressor CIC Directly Regulates MAPK Pathway Genes via Histone Deacetylation. <i>Cancer Research</i> , 2018, 78, 4114-4125.	0.4	56
1982	Disease-Associated Mutations in CEP120 Destabilize the Protein and Impair Ciliogenesis. <i>Cell Reports</i> , 2018, 23, 2805-2818.	2.9	16
1983	APOE4 Causes Widespread Molecular and Cellular Alterations Associated with Alzheimer's Disease Phenotypes in Human iPSC-Derived Brain Cell Types. <i>Neuron</i> , 2018, 98, 1141-1154.e7.	3.8	665
1984	Destabilization of linker histone H1.2 is essential for ATM activation and DNA damage repair. <i>Cell Research</i> , 2018, 28, 756-770.	5.7	59
1985	Zinc finger proteins orchestrate active gene silencing during embryonic stem cell differentiation. <i>Nucleic Acids Research</i> , 2018, 46, 6592-6607.	6.5	19
1986	Dual phosphorylation of Ric-8A enhances its ability to mediate G protein $\beta$ subunit folding and to stimulate guanine nucleotide exchange. <i>Science Signaling</i> , 2018, 11, .	1.6	16
1987	Combinatorial knockout of RAR $\alpha$ , RAR $\beta$ , and RAR $\gamma$ completely abrogates transcriptional responses to retinoic acid in murine embryonic stem cells. <i>Journal of Biological Chemistry</i> , 2018, 293, 11891-11900.	1.6	16
1988	Naturally Occurring Variants in LRP1 (Low-Density Lipoprotein Receptor-Related Protein 1) Affect HDL (High-Density Lipoprotein) Metabolism Through ABCA1 (ATP-Binding Cassette A1) and SR-B1 (Scavenger) Tj ETQq0,0 0 rgBT /Overlock 13 1440-1453.	1.1	13
1989	Enhanced Genome Editing with Cas9 Ribonucleoprotein in Diverse Cells and Organisms. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	29

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1991	Full-length amyloid precursor protein regulates lipoprotein metabolism and amyloid- $\beta^2$ clearance in human astrocytes. <i>Journal of Biological Chemistry</i> , 2018, 293, 11341-11357.	1.6	49
1992	GATOR1-dependent recruitment of FLCNâ€™FNIP to lysosomes coordinates Rag GTPase heterodimer nucleotide status in response to amino acids. <i>Journal of Cell Biology</i> , 2018, 217, 2765-2776.	2.3	54
1993	Differential micronucleus frequency in isogenic human cells deficient in DNA repair pathways is a valuable indicator for evaluating genotoxic agents and their genotoxic mechanisms. <i>Environmental and Molecular Mutagenesis</i> , 2018, 59, 529-538.	0.9	10
1994	Inactivation of deubiquitinase CYLD enhances therapeutic antibody production in Chinese hamster ovary cells. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 6081-6093.	1.7	13
1995	The CRISPR tool kit for genome editing and beyond. <i>Nature Communications</i> , 2018, 9, 1911.	5.8	1,159
1996	Roles of Enhancer RNAs in RANKL-induced Osteoclast Differentiation Identified by Genome-wide Cap-analysis of Gene Expression using CRISPR/Cas9. <i>Scientific Reports</i> , 2018, 8, 7504.	1.6	15
1997	The ABCs of Gene Cloning. , 2018, , .		2
1998	The genome of the Hi5 germ cell line from <i>Trichoplusia ni</i> , an agricultural pest and novel model for small RNA biology. <i>ELife</i> , 2018, 7, .	2.8	68
1999	Lysosomal N-acetyltransferase interacts with ALIX and is detected in extracellular vesicles. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2018, 1865, 1451-1464.	1.9	5
2000	CRISPR/Cas9-mediated genome editing in human stem cell-derived cardiomyocytes: Applications for cardiovascular disease modelling and cardiotoxicity screening. <i>Drug Discovery Today: Technologies</i> , 2018, 28, 13-21.	4.0	18
2001	Characterization of the essential role of bone morphogenetic protein 9 (BMP9) in osteogenic differentiation of mesenchymal stem cells (MSCs) through RNA interference. <i>Genes and Diseases</i> , 2018, 5, 172-184.	1.5	31
2002	Secondary lymphoid organ fibroblastic reticular cells mediate trans-infection of HIV-1 via CD44-hyaluronan interactions. <i>Nature Communications</i> , 2018, 9, 2436.	5.8	21
2003	A Mouse Model of Schnyder Corneal Dystrophy with the N100S Point Mutation. <i>Scientific Reports</i> , 2018, 8, 10219.	1.6	7
2004	DMSO increases efficiency of genome editing at two non-coding loci. <i>PLoS ONE</i> , 2018, 13, e0198637.	1.1	12
2005	Using CRISPR/Cas9 to Knock out Amylase in Acinar Cells Decreases Pancreatitis-Induced Autophagy. <i>BioMed Research International</i> , 2018, 2018, 1-8.	0.9	6
2006	Genetically Encoded Protein Phosphorylation in Mammalian Cells. <i>Cell Chemical Biology</i> , 2018, 25, 1067-1074.e5.	2.5	47
2007	A noncanonical role for dynamin-1 in regulating early stages of clathrin-mediated endocytosis in non-neuronal cells. <i>PLoS Biology</i> , 2018, 16, e2005377.	2.6	38

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2009	FRMD8 promotes inflammatory and growth factor signalling by stabilising the iRhom/ADAM17 sheddase complex. <i>ELife</i> , 2018, 7, .	2.8	53
2010	Induction of innate immune memory via microRNA targeting of chromatin remodelling factors. <i>Nature</i> , 2018, 559, 114-119.	13.7	145
2011	CRISPR-mediated Loss of Function Analysis in Cerebellar Granule Cells Using <i>In Utero</i> Electroporation-based Gene Transfer. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	1
2012	Type 2 Immunity. <i>Methods in Molecular Biology</i> , 2018, , .	0.4	1
2013	AT 101 induces early mitochondrial dysfunction and HMOX1 (heme oxygenase 1) to trigger mitophagic cell death in glioma cells. <i>Autophagy</i> , 2018, 14, 1693-1709.	4.3	79
2014	A forward genetic screen identifies chaperone CNX-1 as a conserved biogenesis regulator of ERG K <sup>+</sup> channels. <i>Journal of General Physiology</i> , 2018, 150, 1189-1201.	0.9	9
2015	Cryo-EM structure of a mitochondrial calcium uniporter. <i>Science</i> , 2018, 361, 506-511.	6.0	116
2016	Evolution of Cortical Neurogenesis in Amniotes Controlled by Robo Signaling Levels. <i>Cell</i> , 2018, 174, 590-606.e21.	13.5	132
2017	C-NHEJ without indels is robust and requires synergistic function of distinct XLF domains. <i>Nature Communications</i> , 2018, 9, 2484.	5.8	75
2018	Calcium store refilling and STIM activation in STIM- and Orai-deficient cell lines. <i>Pflugers Archiv European Journal of Physiology</i> , 2018, 470, 1555-1567.	1.3	39
2019	Transbilayer phospholipid movement facilitates annexin translocation across membranes. <i>Journal of Cell Science</i> , 2018, 131, .	1.2	16
2020	Boosting ATM activity alleviates aging and extends lifespan in a mouse model of progeria. <i>ELife</i> , 2018, 7, .	2.8	54
2021	Identification of a transporter complex responsible for the cytosolic entry of nitrogen-containing bisphosphonates. <i>ELife</i> , 2018, 7, .	2.8	42
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2023	Applying the auxin-inducible degradation system for rapid protein depletion in mammalian cells. <i>Methods in Cell Biology</i> , 2018, 144, 107-135.	0.5	22
2024	Novel combined Ato-C treatment synergistically suppresses proliferation of Bcr-Abl-positive leukemic cells in vitro and in vivo. <i>Cancer Letters</i> , 2018, 433, 117-130.	3.2	19
2025	TGF- $\beta$ 2 uses a novel mode of receptor activation to phosphorylate SMAD1/5 and induce epithelial-to-mesenchymal transition. <i>ELife</i> , 2018, 7, .	2.8	119



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2027	Effective PEI-mediated delivery of CRISPR-Cas9 complex for targeted gene therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 2095-2102.	1.7	68
2028	The long noncoding RNA Blnc1 orchestrates homeostatic adipose tissue remodeling to preserve metabolic health. <i>Molecular Metabolism</i> , 2018, 14, 60-70.	3.0	42
2029	CRISPR screens identify genomic ribonucleotides as a source of PARP-trapping lesions. <i>Nature</i> , 2018, 559, 285-289.	13.7	297
2030	A Novel CRISPR/Cas9-Based Cellular Model to Explore Adenylyl Cyclase and cAMP Signaling. <i>Molecular Pharmacology</i> , 2018, 94, 963-972.	1.0	23
2031	Translational control of ERK signaling through miRNA/4EHP-directed silencing. <i>ELife</i> , 2018, 7, .	2.8	41
2032	The Use of CRISPR-Cas9 Technology to Reveal Important Aspects of Human Airway Biology. <i>Methods in Molecular Biology</i> , 2018, 1799, 371-380.	0.4	4
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2034	RNase H2, mutated in Aicardi-Goutières syndrome, promotes LINE1 retrotransposition. <i>EMBO Journal</i> , 2018, 37, .	3.5	67
2035	GAPVD1 and ANKFY1 Mutations Implicate RAB5 Regulation in Nephrotic Syndrome. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 2123-2138.	3.0	42
2036	LINE-1 protein localization and functional dynamics during the cell cycle. <i>ELife</i> , 2018, 7, .	2.8	99
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2040	CRISPR/Cas9 genome surgery for retinal diseases. <i>Drug Discovery Today: Technologies</i> , 2018, 28, 23-32.	4.0	10
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2042	miR-122, small RNA annealing and sequence mutations alter the predicted structure of the Hepatitis C virus 5' UTR RNA to stabilize and promote viral RNA accumulation. <i>Nucleic Acids Research</i> , 2018, 46, 9776-9792.	6.5	37
2043	The rapidly evolving state of gene therapy. <i>FASEB Journal</i> , 2018, 32, 1733-1740.	0.2	33

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2045	Omics Approaches in Industrial Biotechnology and Bioprocess Engineering. , 2018, , 251-269.		8
2046	DROSHA Knockout Leads to Enhancement of Viral Titers for Vectors Encoding miRNA-Adapted shRNAs. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 12, 591-599.	2.3	5
2047	ADAMTS10-mediated tissue disruption in Weill's Marchesani syndrome. <i>Human Molecular Genetics</i> , 2018, 27, 3675-3687.	1.4	46
2048	Emerging applications of genome-editing technology to examine functionality of GWAS-associated variants for complex traits. <i>Physiological Genomics</i> , 2018, 50, 510-522.	1.0	17
2049	While it is not deliberate, much of today's biomedical research contains logical and technical flaws, showing a need for corrective action. <i>International Journal of Medical Sciences</i> , 2018, 15, 309-322.	1.1	15
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2051	Generation of New Model Cell Lines using ssODN Knockin Donors and FACS-based Genome Editing. , 0, , 150-162.		0
2052	Human glioblastoma arises from subventricular zone cells with low-level driver mutations. <i>Nature</i> , 2018, 560, 243-247.	13.7	460
2053	Actin-dependent regulation of cilia length by the inverted formin FHDC1. <i>Molecular Biology of the Cell</i> , 2018, 29, 1611-1627.	0.9	29
2054	CRISPR-Cas9 therapies in experimental mouse models of cancer. <i>Future Oncology</i> , 2018, 14, 2083-2095.	1.1	5
2056	GFAP Mutations in Astrocytes Impair Oligodendrocyte Progenitor Proliferation and Myelination in an hiPSC Model of Alexander Disease. <i>Cell Stem Cell</i> , 2018, 23, 239-251.e6.	5.2	91
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2069	Thrombospondin receptor $\beta 1$ promotes synaptogenesis and spinogenesis via postsynaptic Rac1. <i>Journal of Cell Biology</i> , 2018, 217, 3747-3765.	2.3	116
2070	Harnessing CRISPR to combat human viral infections. <i>Current Opinion in Immunology</i> , 2018, 54, 123-129.	2.4	28
2071	A novel enhancer regulates MGMT expression and promotes temozolomide resistance in glioblastoma. <i>Nature Communications</i> , 2018, 9, 2949.	5.8	183
2072	The thioredoxin reductase inhibitor auranofin induces heme oxygenase-1 in lung epithelial cells via Nrf2-dependent mechanisms. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 315, L545-L552.	1.3	29
2073	Local chromatin interactions contribute to expression of the fibrinogen gene cluster. <i>Journal of Thrombosis and Haemostasis</i> , 2018, 16, 2070-2082.	1.9	16
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2089	Tuning of in vivo cognate B-T cell interactions by Intersectin 2 is required for effective anti-viral B cell immunity. <i>ELife</i> , 2018, 7, .	2.8	12
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2097	A new genetic tool to improve immune-compromised mouse models: Derivation and CRISPR/Cas9-mediated targeting of NRC embryonic stem cell lines. <i>Genesis</i> , 2018, 56, e23238.	0.8	1
2098	Starvation induces rapid degradation of selective autophagy receptors by endosomal microautophagy. <i>Journal of Cell Biology</i> , 2018, 217, 3640-3655.	2.3	213
2099	In vitro-transcribed guide RNAs trigger an innate immune response via the RIG-I pathway. <i>PLoS Biology</i> , 2018, 16, e2005840.	2.6	81

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2102	Dyneinâ€“Dynactinâ€“NuMA clusters generate cortical spindle-pulling forces as a multi-arm ensemble. <i>ELife</i> , 2018, 7, .	2.8	111
2103	La spirale en ciment. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2018, 40, 646-648.	0.3	0
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2105	Three classes of response elements for human PRC2 and MLL1/2â€“Trithorax complexes. <i>Nucleic Acids Research</i> , 2018, 46, 8848-8864.	6.5	9
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2108	The Cytotoxicity of Epsilon Toxin from <i>Clostridium perfringens</i> on Lymphocytes Is Mediated by MAL Protein Expression. <i>Molecular and Cellular Biology</i> , 2018, 38, .	1.1	29
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2116	NF- $\kappa$ B, the Importance of Being Dynamic: Role and Insights in Cancer. <i>Biomedicines</i> , 2018, 6, 45.	1.4	27
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2121	Complex interactions between insect-borne rice viruses and their vectors. <i>Current Opinion in Virology</i> , 2018, 33, 18-23.	2.6	30
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2128	Inhibition of PKC $\delta$ reduces amyloid- $\beta$ levels and reverses Alzheimer disease phenotypes. <i>Journal of Experimental Medicine</i> , 2018, 215, 1665-1677.	4.2	48
2129	Efficient genome editing in <i>Fusarium oxysporum</i> based on CRISPR/Cas9 ribonucleoprotein complexes. <i>Fungal Genetics and Biology</i> , 2018, 117, 21-29.	0.9	91
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2144	RNA Interference as an Approach to Functional Genomics Genetic Manipulation of <i>Opisthorchis viverrini</i> . <i>Advances in Parasitology</i> , 2018, 102, 25-43.	1.4	0
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2172	Cancer-Associated MORC2-Mutant M276I Regulates an hnRNPM-Mediated CD44 Splicing Switch to Promote Invasion and Metastasis in Triple-Negative Breast Cancer. <i>Cancer Research</i> , 2018, 78, 5780-5792.	0.4	72



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2630	3D-printing enabled micro-assembly of a microfluidic electroporation system for 3D tissue engineering. <i>Lab on A Chip</i> , 2019, 19, 2362-2372.	3.1	25
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2634	Histone demethylase Kdm2a regulates germ cell genes and endogenous retroviruses in embryonic stem cells. <i>Epigenomics</i> , 2019, 11, 751-766.	1.0	11
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3110	Gain-of-function DNMT3A mutations cause microcephalic dwarfism and hypermethylation of Polycomb-regulated regions. <i>Nature Genetics</i> , 2019, 51, 96-105.	9.4	110
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4270	Advances in Genetically Modified Plants by Employing Modern Biotechnological Tools: An Update. , 2021, , 495-513.		0
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4654	Cancer-causing <i>BRCA2</i> missense mutations disrupt an intracellular protein assembly mechanism to disable genome maintenance. <i>Nucleic Acids Research</i> , 2021, 49, 5588-5604.	6.5	20
4655	Asparagine couples mitochondrial respiration to ATF4 activity and tumor growth. <i>Cell Metabolism</i> , 2021, 33, 1013-1026.e6.	7.2	125
4656	PD-L1 recruits phospholipase C and enhances tumorigenicity of lung tumors harboring mutant forms of EGFR. <i>Cell Reports</i> , 2021, 35, 109181.	2.9	27
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4662	USP19 promotes hypoxia-induced mitochondrial division via FUNDC1 at ER-mitochondria contact sites. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	29
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4693	Complex I protein NDUFS2 is vital for growth, ROS generation, membrane integrity, apoptosis, and mitochondrial energetics. <i>Mitochondrion</i> , 2021, 58, 160-168.	1.6	14
4694	CRISPR-Cas9 Editing of Human Histone Deubiquitinase Gene USP16 in Human Monocytic Leukemia Cell Line THP-1. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 679544.	1.8	2
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4718	GATA6 defines endoderm fate by controlling chromatin accessibility during differentiation of human-induced pluripotent stem cells. <i>Cell Reports</i> , 2021, 35, 109145.	2.9	32
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4778	A Novel System for Simple Rapid Adenoviral Vector Construction to Facilitate CRISPR/Cas9-Mediated Genome Editing. <i>CRISPR Journal</i> , 2021, 4, 381-391.	1.4	2
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4840	A variable-gain stochastic pooling motif mediates information transfer from receptor assemblies into NF- $\kappa$ B. <i>Science Advances</i> , 2021, 7, .	4.7	10
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4857	Pharmacologic modulation of RNA splicing enhances anti-tumor immunity. <i>Cell</i> , 2021, 184, 4032-4047.e31.	13.5	131
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5025	Gene editing and synthetically accessible inhibitors reveal role for TPC2 in HCC cell proliferation and tumor growth. <i>Cell Chemical Biology</i> , 2021, 28, 1119-1131.e27.	2.5	36
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5031	Options for tackling pathogen resistance by genome editing in rice. <i>CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources</i> , 0, .	0.6	1
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5033	Deletion of Gremlin-2 alters estrous cyclicity and disrupts female fertility in mice. <i>Biology of Reproduction</i> , 2021, 105, 1205-1220.	1.2	6
5034	C5orf51 is a component of the MON1-CCZ1 complex and controls RAB7A localization and stability during mitophagy. <i>Autophagy</i> , 2022, 18, 829-840.	4.3	21
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5047	DGAT2 stability is increased in response to DGAT1 inhibition in gene edited HepG2 cells. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158991.	1.2	6
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5050	The RAS GTPase RIT1 compromises mitotic fidelity through spindle assembly checkpoint suppression. <i>Current Biology</i> , 2021, 31, 3915-3924.e9.	1.8	14

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5074	A CRISPR/Cas9 genetically engineered organoid biobank reveals essential host factors for coronaviruses. <i>Nature Communications</i> , 2021, 12, 5498.	5.8	57
5075	Protocol for using fluorescent sensors targeted to endogenous proteins (FluoSTEPS) to measure microdomain-specific signaling events. <i>STAR Protocols</i> , 2021, 2, 100693.	0.5	1
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5099	A mouse model of brittle cornea syndrome caused by mutation in <i>Zfp469</i> . <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	1.2	5
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5168	AIM in Nanomedicine. , 2021, , 1-17.		0
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5172	CRISPR/Cas-Based Techniques in Plants. , 2021, , 37-61.		3
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5206	Biostic DNA Delivery and Its Applications in Sorghum bicolor. <i>Methods in Molecular Biology</i> , 2020, 2124, 197-215.	0.4	4
5207	Generation and Analysis of CCM Phenotypes in <i>C. elegans</i> . <i>Methods in Molecular Biology</i> , 2020, 2152, 191-205.	0.4	3
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5695	Conditional deletion of glucocorticoid receptors in rat brain results in sex-specific deficits in fear and coping behaviors. <i>ELife</i> , 2019, 8, .	2.8	24
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5705	Obesity-linked suppression of membrane-bound O-acyltransferase 7 (MBOAT7) drives non-alcoholic fatty liver disease. <i>ELife</i> , 2019, 8, .	2.8	93
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6481	LAMTOR1 inhibition of TRPML1â€‘dependent lysosomal calcium release regulates dendritic lysosome trafficking and hippocampal neuronal function. <i>EMBO Journal</i> , 2022, 41, e108119.	3.5	8
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6485	Cysteine oxidation of copper transporter CTR1 drives VEGFR2 signalling and angiogenesis. <i>Nature Cell Biology</i> , 2022, 24, 35-50.	4.6	53
6486	Transcriptional programs regulating neuronal differentiation are disrupted in DLG2 knockout human embryonic stem cells and enriched for schizophrenia and related disorders risk variants. <i>Nature Communications</i> , 2022, 13, 27.	5.8	8
6487	Generation of NKX2.5GFP Reporter Human iPSCs and Differentiation Into Functional Cardiac Fibroblasts. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 797927.	1.8	2
6489	Plasmolipin regulates basolateral-to-apical transcytosis of ICAM-1 and leukocyte adhesion in polarized hepatic epithelial cells. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 61.	2.4	2
6490	CRISPR/Cas9 genome editing system confirms centriolinâ€™s role in cytokinesis. <i>BMC Research Notes</i> , 2022, 15, 8.	0.6	4
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6492	Grainyhead 1 acts as a drug-inducible conserved transcriptional regulator linked to insulin signaling and lifespan. <i>Nature Communications</i> , 2022, 13, 107.	5.8	5
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6501	Immunosuppressive calcineurin inhibitor cyclosporine Aâ€‘induces proapoptotic endoplasmic reticulum stress in renal tubular cells. <i>Journal of Biological Chemistry</i> , 2022, 298, 101589.	1.6	7

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