# Feng Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4090220/publications.pdf

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|---|---|---|---|
| 353 papers | 90,625 citations | 1097 112 h-index | 391 279 g-index |
| 387 all docs | 387 docs citations | 387 times ranked | 77617 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Development and Applications of CRISPR-Cas9 for Genome Engineering. Cell, 2014, 157, 1262-1278. | 13.5 | 4,607 |
| 2 | Genome-Scale CRISPR-Cas9 Knockout Screening in Human Cells. Science, 2014, 343, 84-87. | 6.0 | 4,210 |
| 3 | Improved vectors and genome-wide libraries for CRISPR screening. Nature Methods, 2014, 11, 783-784. | 9.0 | 4,032 |
| 4 | Cpf1 Is a Single RNA-Guided Endonuclease of a Class 2 CRISPR-Cas System. Cell, 2015, 163, 759-771. | 13.5 | 3,558 |
| 5 | Nucleic acid detection with CRISPR-Cas13a/C2c2. Science, 2017, 356, 438-442. | 6.0 | 2,275 |
| 6 | Genome-scale transcriptional activation by an engineered CRISPR-Cas9 complex. Nature, 2015, 517, 583-588. | 13.7 | 2,272 |
| 7 | In vivo genome editing using Staphylococcus aureus Cas9. Nature, 2015, 520, 186-191. | 13.7 | 2,237 |
| 8 | RNA-guided editing of bacterial genomes using CRISPR-Cas systems. Nature Biotechnology, 2013, 31, 233-239. | 9.4 | 2,071 |
| 9 | Rationally engineered Cas9 nucleases with improved specificity. Science, 2016, 351, 84-88. | 6.0 | 1,948 |
| 10 | Crystal Structure of Cas9 in Complex with Guide RNA and Target DNA. Cell, 2014, 156, 935-949. | 13.5 | 1,690 |
| 11 | Multiplexed and portable nucleic acid detection platform with Cas13, Cas12a, and Csm6. Science, 2018, 360, 439-444. | 6.0 | 1,649 |
| 12 | C2c2 is a single-component programmable RNA-guided RNA-targeting CRISPR effector. Science, 2016, 353, aaf5573. | 6.0 | 1,647 |
| 13 | MAGeCK enables robust identification of essential genes from genome-scale CRISPR/Cas9 knockout screens. Genome Biology, 2014, 15, 554. | 3.8 | 1,614 |
| 14 | CRISPR-Cas9 Knockin Mice for Genome Editing and Cancer Modeling. Cell, 2014, 159, 440-455. | 13.5 | 1,566 |
| 15 | RNA targeting with CRISPRâ€“Cas13. Nature, 2017, 550, 280-284. | 13.7 | 1,442 |
| 16 | Evolutionary classification of CRISPRâ€“Cas systems: a burst of class 2 and derived variants. Nature Reviews Microbiology, 2020, 18, 67-83. | 13.6 | 1,427 |
| 17 | RNA editing with CRISPR-Cas13. Science, 2017, 358, 1019-1027. | 6.0 | 1,301 |
| 18 | Diversity, classification and evolution of CRISPR-Cas systems. Current Opinion in Microbiology, 2017, 37, 67-78. | 2.3 | 1,076 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Therapeutic genome editing: prospects and challenges. Nature Medicine, 2015, 21, 121-131. | 15.2 | 1,042 |
| 20 | Copy Number Variation in Human Health, Disease, and Evolution. Annual Review of Genomics and Human Genetics, 2009, 10, 451-481. | 2.5 | 1,026 |
| 21 | High-throughput functional genomics using CRISPRâ€“Cas9. Nature Reviews Genetics, 2015, 16, 299-311. | 7.7 | 998 |
| 22 | Field-deployable viral diagnostics using CRISPR-Cas13. Science, 2018, 360, 444-448. | 6.0 | 982 |
| 23 | Perturbation of m6A Writers Reveals Two Distinct Classes of mRNA Methylation at Internal and 5â€² Sites. Cell Reports, 2014, 8, 284-296. | 2.9 | 972 |
| 24 | Discovery and Functional Characterization of Diverse Class 2 CRISPR-Cas Systems. Molecular Cell, 2015, 60, 385-397. | 4.5 | 971 |
| 25 | Programmable repression and activation of bacterial gene expression using an engineered CRISPR-Cas system. Nucleic Acids Research, 2013, 41, 7429-7437. | 6.5 | 960 |
| 26 | In vivo genome editing improves muscle function in a mouse model of Duchenne muscular dystrophy. Science, 2016, 351, 403-407. | 6.0 | 957 |
| 27 | Efficient genome editing in plants using a CRISPR/Cas system. Cell Research, 2013, 23, 1229-1232. | 5.7 | 944 |
| 28 | In vivo gene editing in dystrophic mouse muscle and muscle stem cells. Science, 2016, 351, 407-411. | 6.0 | 889 |
| 29 | Massively parallel single-nucleus RNA-seq with DroNc-seq. Nature Methods, 2017, 14, 955-958. | 9.0 | 859 |
| 30 | Genome-scale CRISPR-Cas9 knockout and transcriptional activation screening. Nature Protocols, 2017, 12, 828-863. | 5.5 | 858 |
| 31 | SHERLOCK: nucleic acid detection with CRISPR nucleases. Nature Protocols, 2019, 14, 2986-3012. | 5.5 | 851 |
| 32 | Genome-wide binding of the CRISPR endonuclease Cas9 in mammalian cells. Nature Biotechnology, 2014, 32, 670-676. | 9.4 | 829 |
| 33 | Diversity and evolution of class 2 CRISPRâ€“Cas systems. Nature Reviews Microbiology, 2017, 15, 169-182. | 13.6 | 792 |
| 34 | Engineered CRISPR-Cas9 nuclease with expanded targeting space. Science, 2018, 361, 1259-1262. | 6.0 | 783 |
| 35 | Genome-wide CRISPR Screen in a Mouse Model of Tumor Growth and Metastasis. Cell, 2015, 160, 1246-1260. | 13.5 | 746 |
| 36 | Multiplex gene editing by CRISPRâ€“Cpf1 using a single crRNA array. Nature Biotechnology, 2017, 35, 31-34. | 9.4 | 736 |

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|---|---|---|---|
| 37 | Optical control of mammalian endogenous transcription and epigenetic states. Nature, 2013, 500, 472-476. | 13.7 | 733 |
| 38 | BCL11A enhancer dissection by Cas9-mediated in situ saturating mutagenesis. Nature, 2015, 527, 192-197. | 13.7 | 726 |
| 39 | Whole-Genome Sequencing in a Patient with Charcotâ€“Marieâ€“Tooth Neuropathy. New England Journal of Medicine, 2010, 362, 1181-1191. | 13.9 | 698 |
| 40 | In vivo interrogation of gene function in the mammalian brain using CRISPR-Cas9. Nature Biotechnology, 2015, 33, 102-106. | 9.4 | 675 |
| 41 | CRISPR-mediated direct mutation of cancer genes in the mouse liver. Nature, 2014, 514, 380-384. | 13.7 | 673 |
| 42 | Identification of essential genes for cancer immunotherapy. Nature, 2017, 548, 537-542. | 13.7 | 668 |
| 43 | A split-Cas9 architecture for inducible genome editing and transcription modulation. Nature Biotechnology, 2015, 33, 139-142. | 9.4 | 603 |
| 44 | Crystal Structure of Cpf1 in Complex with Guide RNA and Target DNA. Cell, 2016, 165, 949-962. | 13.5 | 552 |
| 45 | Mechanisms for human genomic rearrangements. PathoGenetics, 2008, 1, 4. | 5.7 | 523 |
| 46 | Diverse evolutionary roots and mechanistic variations of the CRISPR-Cas systems. Science, 2016, 353, aad5147. | 6.0 | 523 |
| 47 | Sequence determinants of improved CRISPR sgRNA design. Genome Research, 2015, 25, 1147-1157. | 2.4 | 514 |
| 48 | Detection of SARS-CoV-2 with SHERLOCK One-Pot Testing. New England Journal of Medicine, 2020, 383, 1492-1494. | 13.9 | 506 |
| 49 | CRISPR-based diagnostics. Nature Biomedical Engineering, 2021, 5, 643-656. | 11.6 | 492 |
| 50 | Cytosine, but not adenine, base editors induce genome-wide off-target mutations in rice. Science, 2019, 364, 292-295. | 6.0 | 491 |
| 51 | CRISPR/Cas9 for genome editing: progress, implications and challenges. Human Molecular Genetics, 2014, 23, R40-R46. | 1.4 | 487 |
| 52 | Div-Seq: Single-nucleus RNA-Seq reveals dynamics of rare adult newborn neurons. Science, 2016, 353, 925-928. | 6.0 | 482 |
| 53 | Non-coding genetic variants in human disease: Figure 1.. Human Molecular Genetics, 2015, 24, R102-R110. | 1.4 | 466 |
| 54 | RNA-guided DNA insertion with CRISPR-associated transposases. Science, 2019, 365, 48-53. | 6.0 | 448 |

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|---|---|---|---|
| 55 | Cas13b Is a Type VI-B CRISPR-Associated RNA-Guided RNase Differentially Regulated by Accessory Proteins Csx27 and Csx28. Molecular Cell, 2017, 65, 618-630.e7. | 4.5 | 445 |
| 56 | Clinical validation of a Cas13-based assay for the detection of SARS-CoV-2 RNA. Nature Biomedical Engineering, 2020, 4, 1140-1149. | 11.6 | 442 |
| 57 | Transcription Activator-Like Effector Nucleases Enable Efficient Plant Genome Engineering Â Â. Plant Physiology, 2012, 161, 20-27. | 2.3 | 407 |
| 58 | A single mutation in the prM protein of Zika virus contributes to fetal microcephaly. Science, 2017, 358, 933-936. | 6.0 | 399 |
| 59 | Genetic evidence supports demic diffusion of Han culture. Nature, 2004, 431, 302-305. | 13.7 | 398 |
| 60 | Chromosome Catastrophes Involve Replication Mechanisms Generating Complex Genomic Rearrangements. Cell, 2011, 146, 889-903. | 13.5 | 391 |
| 61 | Common Genetic Variants Modulate Pathogen-Sensing Responses in Human Dendritic Cells. Science, 2014, 343, 1246980. | 6.0 | 391 |
| 62 | A Genome-wide CRISPR Screen in Primary Immune Cells to Dissect Regulatory Networks. Cell, 2015, 162, 675-686. | 13.5 | 383 |
| 63 | The DNA replication FoSTeS/MMBIR mechanism can generate genomic, genic and exonic complex rearrangements in humans. Nature Genetics, 2009, 41, 849-853. | 9.4 | 382 |
| 64 | Crystal Structure of Staphylococcus aureus Cas9. Cell, 2015, 162, 1113-1126. | 13.5 | 357 |
| 65 | m6A facilitates hippocampus-dependent learning and memory through YTHDF1. Nature, 2018, 563, 249-253. | 13.7 | 354 |
| 66 | Engineered Cpf1 variants with altered PAM specificities. Nature Biotechnology, 2017, 35, 789-792. | 9.4 | 351 |
| 67 | High frequency targeted mutagenesis in Arabidopsis thaliana using zinc finger nucleases. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12028-12033. | 3.3 | 347 |
| 68 | Hypoxia as a therapy for mitochondrial disease. Science, 2016, 352, 54-61. | 6.0 | 339 |
| 69 | Genome-scale activation screen identifies a lncRNA locus regulating a gene neighbourhood. Nature, 2017, 548, 343-346. | 13.7 | 336 |
| 70 | A cytosine deaminase for programmable single-base RNA editing. Science, 2019, 365, 382-386. | 6.0 | 322 |
| 71 | Human Pluripotent Stem Cell-Derived Neural Cells and Brain Organoids Reveal SARS-CoV-2 Neurotropism Predominates in Choroid Plexus Epithelium. Cell Stem Cell, 2020, 27, 937-950.e9. | 5.2 | 314 |
| 72 | Diverse enzymatic activities mediate antiviral immunity in prokaryotes. Science, 2020, 369, 1077-1084. | 6.0 | 302 |

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|---|---|---|---|
| 73 | BLISS is a versatile and quantitative method for genome-wide profiling of DNA double-strand breaks. Nature Communications, 2017, 8, 15058. | 5.8 | 298 |
| 74 | Structure and Engineering of Francisella novicida Cas9. Cell, 2016, 164, 950-961. | 13.5 | 296 |
| 75 | Comprehensive interrogation of natural TALE DNA-binding modules and transcriptional repressor domains. Nature Communications, 2012, 3, 968. | 5.8 | 291 |
| 76 | CRISPR-Based Therapeutic Genome Editing: Strategies and InÂVivo Delivery by AAV Vectors. Cell, 2020, 181, 136-150. | 13.5 | 289 |
| 77 | Programmable Inhibition and Detection of RNA Viruses Using Cas13. Molecular Cell, 2019, 76, 826-837.e11. | 4.5 | 286 |
| 78 | Mice with Shank3 Mutations Associated with ASD and Schizophrenia Display Both Shared and Distinct Defects. Neuron, 2016, 89, 147-162. | 3.8 | 279 |
| 79 | Autism and other neuropsychiatric symptoms are prevalent in individuals with MeCP2 duplication syndrome. Annals of Neurology, 2009, 66, 771-782. | 2.8 | 271 |
| 80 | The CAFA challenge reports improved protein function prediction and new functional annotations for hundreds of genes through experimental screens. Genome Biology, 2019, 20, 244. | 3.8 | 261 |
| 81 | Autism-like behaviours and germline transmission in transgenic monkeys overexpressing MeCP2. Nature, 2016, 530, 98-102. | 13.7 | 260 |
| 82 | High-resolution interrogation of functional elements in the noncoding genome. Science, 2016, 353, 1545-1549. | 6.0 | 251 |
| 83 | Engineering of CRISPR-Cas12b for human genome editing. Nature Communications, 2019, 10, 212. | 5.8 | 249 |
| 84 | Transcription control by the ENL YEATS domain in acute leukaemia. Nature, 2017, 543, 270-274. | 13.7 | 248 |
| 85 | CRISPR/Cas9 cleavage of viral DNA efficiently suppresses hepatitis B virus. Scientific Reports, 2015, 5, 10833. | 1.6 | 245 |
| 86 | Complex human chromosomal and genomic rearrangements. Trends in Genetics, 2009, 25, 298-307. | 2.9 | 239 |
| 87 | TBX6 Null Variants and a Common Hypomorphic Allele in Congenital Scoliosis. New England Journal of Medicine, 2015, 372, 341-350. | 13.9 | 239 |
| 88 | Brains, Genes, and Primates. Neuron, 2015, 86, 617-631. | 3.8 | 231 |
| 89 | Orthogonal gene knockout and activation with a catalytically active Cas9 nuclease. Nature Biotechnology, 2015, 33, 1159-1161. | 9.4 | 231 |
| 90 | Biallelic Mutations in CFAP43 and CFAP44 Cause Male Infertility with Multiple Morphological Abnormalities of the Sperm Flagella. American Journal of Human Genetics, 2017, 100, 854-864. | 2.6 | 220 |

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|---|---|---|---|
| 91 | Mammalian retrovirus-like protein PEG10 packages its own mRNA and can be pseudotyped for mRNA delivery. Science, 2021, 373, 882-889. | 6.0 | 214 |
| 92 | Structural Basis for the Canonical and Non-canonical PAM Recognition by CRISPR-Cpf1. Molecular Cell, 2017, 67, 633-645.e3. | 4.5 | 206 |
| 93 | Efficient CRISPR-Cas9â€“mediated genome editing in Plasmodium falciparum. Nature Methods, 2014, 11, 915-918. | 9.0 | 205 |
| 94 | Increased LIS1 expression affects human and mouse brain development. Nature Genetics, 2009, 41, 168-177. | 9.4 | 199 |
| 95 | Ongoing global and regional adaptive evolution of SARS-CoV-2. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 196 |
| 96 | Lipid nanoparticle-mediated codelivery of Cas9 mRNA and single-guide RNA achieves liver-specific in vivo genome editing ofAngptl3. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 192 |
| 97 | AAV-mediated direct in vivo CRISPR screen identifies functional suppressors in glioblastoma. Nature Neuroscience, 2017, 20, 1329-1341. | 7.1 | 179 |
| 98 | Chd8 Mutation Leads to Autistic-like Behaviors and Impaired Striatal Circuits. Cell Reports, 2017, 19, 335-350. | 2.9 | 177 |
| 99 | Optical Pooled Screens in Human Cells. Cell, 2019, 179, 787-799.e17. | 13.5 | 170 |
| 100 | Complex rearrangements in patients with duplications of MECP2 can occur by fork stalling and template switching. Human Molecular Genetics, 2009, 18, 2188-2203. | 1.4 | 165 |
| 101 | In vivo Perturb-Seq reveals neuronal and glial abnormalities associated with autism risk genes. Science, 2020, 370, . | 6.0 | 155 |
| 102 | Assessing structural variation in a personal genomeâ€”towards a human reference diploid genome. BMC Genomics, 2015, 16, 286. | 1.2 | 153 |
| 103 | The widespread IS200/IS605 transposon family encodes diverse programmable RNA-guided endonucleases. Science, 2021, 374, 57-65. | 6.0 | 152 |
| 104 | A cellular and spatial map of the choroid plexus across brain ventricles and ages. Cell, 2021, 184, 3056-3074.e21. | 13.5 | 150 |
| 105 | Multidimensional chemical control of CRISPRâ€“Cas9. Nature Chemical Biology, 2017, 13, 9-11. | 3.9 | 146 |
| 106 | Crystal Structure of the Minimal Cas9 from Campylobacter jejuni Reveals the Molecular Diversity in the CRISPR-Cas9 Systems. Molecular Cell, 2017, 65, 1109-1121.e3. | 4.5 | 145 |
| 107 | Single-Cell Transcriptomics Uncovers Glial Progenitor Diversity and Cell Fate Determinants during Development and Gliomagenesis. Cell Stem Cell, 2019, 24, 707-723.e8. | 5.2 | 145 |
| 108 | The copy number variation landscape of congenital anomalies of the kidney and urinary tract. Nature Genetics, 2019, 51, 117-127. | 9.4 | 144 |

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|---|---|---|---|
| 109 | Increasing frequencies of site-specific mutagenesis and gene targeting in Arabidopsis by manipulating DNA repair pathways. Genome Research, 2013, 23, 547-554. | 2.4 | 142 |
| 110 | SnapShot: Class 2 CRISPR-Cas Systems. Cell, 2017, 168, 328-328.e1. | 13.5 | 138 |
| 111 | Highly Parallel Profiling of Cas9 Variant Specificity. Molecular Cell, 2020, 78, 794-800.e8. | 4.5 | 134 |
| 112 | Discovery of proteins associated with a predefined genomic locus via dCas9â€“APEX-mediated proximity labeling. Nature Methods, 2018, 15, 437-439. | 9.0 | 133 |
| 113 | Y chromosome evidence of earliest modern human settlement in East Asia and multiple origins of Tibetan and Japanese populations. BMC Biology, 2008, 6, 45. | 1.7 | 129 |
| 114 | Clinical characteristics of recovered COVID-19 patients with re-detectable positive RNA test. Annals of Translational Medicine, 2020, 8, 1084-1084. | 0.7 | 128 |
| 115 | Mechanisms for Nonrecurrent Genomic Rearrangements Associated with CMT1A or HNPP: Rare CNVs as a Cause for Missing Heritability. American Journal of Human Genetics, 2010, 86, 892-903. | 2.6 | 125 |
| 116 | LGR5, a novel functional glioma stem cell marker, promotes EMT by activating the Wnt/Î²-catenin pathway and predicts poor survival of glioma patients. Journal of Experimental and Clinical Cancer Research, 2018, 37, 225. | 3.5 | 122 |
| 117 | Opportunities and challenges in modeling human brain disorders in transgenic primates. Nature Neuroscience, 2016, 19, 1123-1130. | 7.1 | 115 |
| 118 | Bi-allelic Mutations in ARMC2 Lead to Severe Astheno-Teratozoospermia Due to Sperm Flagellum Malformations in Humans and Mice. American Journal of Human Genetics, 2019, 104, 331-340. | 2.6 | 113 |
| 119 | Dual Requirement of CHD8 for Chromatin Landscape Establishment and Histone Methyltransferase Recruitment to Promote CNS Myelination and Repair. Developmental Cell, 2018, 45, 753-768.e8. | 3.1 | 112 |
| 120 | Bi-allelic DNAH8 Variants Lead to Multiple Morphological Abnormalities of the Sperm Flagella and Primary Male Infertility. American Journal of Human Genetics, 2020, 107, 330-341. | 2.6 | 111 |
| 121 | Loss-of-function mutations in QRICH2 cause male infertility with multiple morphological abnormalities of the sperm flagella. Nature Communications, 2019, 10, 433. | 5.8 | 108 |
| 122 | Genetic Structure of Hmong-Mien Speaking Populations in East Asia as Revealed by mtDNA Lineages. Molecular Biology and Evolution, 2005, 22, 725-734. | 3.5 | 105 |
| 123 | Implications of human genetic variation in CRISPR-based therapeutic genome editing. Nature Medicine, 2017, 23, 1095-1101. | 15.2 | 105 |
| 124 | Frequency of Nonallelic Homologous Recombination Is Correlated with Length of Homology: Evidence that Ectopic Synapsis Precedes Ectopic Crossing-Over. American Journal of Human Genetics, 2011, 89, 580-588. | 2.6 | 104 |
| 125 | The Nuclear Matrix Protein SAFB Cooperates with Major Satellite RNAs to Stabilize Heterochromatin Architecture Partially through Phase Separation. Molecular Cell, 2020, 77, 368-383.e7. | 4.5 | 104 |
| 126 | Rationally Designed APOBEC3B Cytosine Base Editors with Improved Specificity. Molecular Cell, 2020, 79, 728-740.e6. | 4.5 | 104 |

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|---|---|---|---|
| 127 | Bi-allelic Mutations in TTC21A Induce Asthenoteratospermia in Humans and Mice. American Journal of Human Genetics, 2019, 104, 738-748. | 2.6 | 103 |
| 128 | High-Resolution Structure of Cas13b and Biochemical Characterization of RNA Targeting and Cleavage. Cell Reports, 2019, 26, 3741-3751.e5. | 2.9 | 102 |
| 129 | Single-Cell Transcriptomics in Medulloblastoma Reveals Tumor-Initiating Progenitors and Oncogenic Cascades during Tumorigenesis and Relapse. Cancer Cell, 2019, 36, 302-318.e7. | 7.7 | 96 |
| 130 | Multiplexed, targeted gene editing in Nicotiana benthamiana for glycoâ€engineering and monoclonal antibody production. Plant Biotechnology Journal, 2016, 14, 533-542. | 4.1 | 95 |
| 131 | Nucleic Acid Detection of Plant Genes Using CRISPR-Cas13. CRISPR Journal, 2019, 2, 165-171. | 1.4 | 92 |
| 132 | The nuclear matrix protein HNRNPU maintains 3D genome architecture globally in mouse hepatocytes. Genome Research, 2018, 28, 192-202. | 2.4 | 91 |
| 133 | An RNA-aptamer-based two-color CRISPR labeling system. Scientific Reports, 2016, 6, 26857. | 1.6 | 88 |
| 134 | Structural Basis for the Altered PAM Recognition by Engineered CRISPR-Cpf1. Molecular Cell, 2017, 67, 139-147.e2. | 4.5 | 88 |
| 135 | A DNAH17 missense variant causes flagella destabilization and asthenozoospermia. Journal of Experimental Medicine, 2020, 217, . | 4.2 | 88 |
| 136 | X-Linked Congenital Hypertrichosis Syndrome Is Associated with Interchromosomal Insertions Mediated by a Human-Specific Palindrome near SOX3. American Journal of Human Genetics, 2011, 88, 819-826. | 2.6 | 87 |
| 137 | The b2/b3 subdeletion shows higher risk of spermatogenic failure and higher frequency of complete AZFc deletion than the gr/gr subdeletion in a Chinese population. Human Molecular Genetics, 2009, 18, 1122-1130. | 1.4 | 86 |
| 138 | Dual modes of CRISPR-associated transposon homing. Cell, 2021, 184, 2441-2453.e18. | 13.5 | 86 |
| 139 | Compact RNA editors with small Cas13 proteins. Nature Biotechnology, 2022, 40, 194-197. | 9.4 | 86 |
| 140 | Partial deletions are associated with an increased risk of complete deletion in AZFc: a new insight into the role of partial AZFc deletions in male infertility. Journal of Medical Genetics, 2007, 44, 437-444. | 1.5 | 82 |
| 141 | Identification of Uncommon Recurrent Potocki-Lupski Syndrome-Associated Duplications and the Distribution of Rearrangement Types and Mechanisms in PTLS. American Journal of Human Genetics, 2010, 86, 462-470. | 2.6 | 79 |
| 142 | Genome Editing Using Cas9 Nickases. Methods in Enzymology, 2014, 546, 161-174. | 0.4 | 78 |
| 143 | Coupling immunity and programmed cell suicide in prokaryotes: Lifeâ€orâ€death choices. BioEssays, 2017, 39, 1-9. | 1.2 | 78 |
| 144 | Effects of 3D culturing conditions on the transcriptomic profile of stem-cell-derived neurons. Nature Biomedical Engineering, 2018, 2, 540-554. | 11.6 | 78 |

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|---|---|---|---|
| 145 | DNA Microscopy: Optics-free Spatio-genetic Imaging by a Stand-Alone Chemical Reaction. Cell, 2019, 178, 229-241.e16. | 13.5 | 77 |
| 146 | Deleterious variants in X-linked CFAP47 induce asthenoteratozoospermia and primary male infertility. American Journal of Human Genetics, 2021, 108, 309-323. | 2.6 | 74 |
| 147 | Generation of hypothalamic arcuate organoids from human induced pluripotent stem cells. Cell Stem Cell, 2021, 28, 1657-1670.e10. | 5.2 | 72 |
| 148 | Microcephaly-Associated Protein WDR62 Regulates Neurogenesis through JNK1 in the Developing Neocortex. Cell Reports, 2014, 6, 104-116. | 2.9 | 71 |
| 149 | Bi-allelic Loss-of-function Variants in CFAP58 Cause Flagellar Axoneme and Mitochondrial Sheath Defects and Asthenoteratozoospermia in Humans and Mice. American Journal of Human Genetics, 2020, 107, 514-526. | 2.6 | 71 |
| 150 | The COVID-19 XPRIZE and the need for scalable, fast, and widespread testing. Nature Biotechnology, 2020, 38, 1021-1024. | 9.4 | 71 |
| 151 | Integrated design, execution, and analysis of arrayed and pooled CRISPR genome-editing experiments. Nature Protocols, 2018, 13, 946-986. | 5.5 | 70 |
| 152 | Novel homozygousCFAP69mutations in humans and mice cause severe asthenoteratospermia with multiple morphological abnormalities of the sperm flagella. Journal of Medical Genetics, 2019, 56, 96-103. | 1.5 | 70 |
| 153 | Global microRNA depletion suppresses tumor angiogenesis. Genes and Development, 2014, 28, 1054-1067. | 2.7 | 66 |
| 154 | An Organismal CNV Mutator Phenotype Restricted to Early Human Development. Cell, 2017, 168, 830-842.e7. | 13.5 | 66 |
| 155 | Genome-Wide Identification of Regulatory Sequences Undergoing Accelerated Evolution in the Human Genome. Molecular Biology and Evolution, 2016, 33, 2565-2575. | 3.5 | 64 |
| 156 | Mapping a functional cancer genome atlas of tumor suppressors in mouse liver using AAV-CRISPRâ€“mediated direct in vivo screening. Science Advances, 2018, 4, eaao5508. | 4.7 | 64 |
| 157 | Efficient typing of copy number variations in a segmental duplication-mediated rearrangement hotspot using multiplex competitive amplification. Journal of Human Genetics, 2012, 57, 545-551. | 1.1 | 63 |
| 158 | POSH Localizes Activated Rac1 to Control the Formation of Cytoplasmic Dilation of the Leading Process and Neuronal Migration. Cell Reports, 2012, 2, 640-651. | 2.9 | 63 |
| 159 | Bi-allelic Mutations in TTC29 Cause Male Subfertility with Asthenoteratospermia in Humans and Mice. American Journal of Human Genetics, 2019, 105, 1168-1181. | 2.6 | 62 |
| 160 | Genetic studies of human diversity in East Asia. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 987-996. | 1.8 | 61 |
| 161 | Genomic disorders: A window into human gene and genome evolution. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1765-1771. | 3.3 | 60 |
| 162 | TBX6-associated congenital scoliosis (TACS) as a clinically distinguishable subtype of congenital scoliosis: further evidence supporting the compound inheritance and TBX6 gene dosage model. Genetics in Medicine, 2019, 21, 1548-1558. | 1.1 | 60 |

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|---|---|---|---|
| 163 | Conferring DNA virus resistance with high specificity in plants using virus-inducible genome-editing system. Genome Biology, 2018, 19, 197. | 3.8 | 59 |
| 164 | Î²-Sitosterol-loaded solid lipid nanoparticles ameliorate complete Freundâ€™s adjuvant-induced arthritis in rats: involvement of NF-ÐºB and HO-1/Nrf-2 pathway. Drug Delivery, 2020, 27, 1329-1341. | 2.5 | 59 |
| 165 | Rapid SARS-CoV-2 testing in primary material based on a novel multiplex RT-LAMP assay. PLoS ONE, 2020, 15, e0238612. | 1.1 | 58 |
| 166 | The coexistence of copy number variations (CNVs) and single nucleotide polymorphisms (SNPs) at a locus can result in distorted calculations of the significance in associating SNPs to disease. Human Genetics, 2018, 137, 553-567. | 1.8 | 57 |
| 167 | Homozygous mutations inSPEF2induce multiple morphological abnormalities of the sperm flagella and male infertility. Journal of Medical Genetics, 2020, 57, 31-37. | 1.5 | 57 |
| 168 | Homozygous mutations in DZIP1 can induce asthenoteratospermia with severe MMAF. Journal of Medical Genetics, 2020, 57, 445-453. | 1.5 | 57 |
| 169 | Rare variants in FANCA induce premature ovarian insufficiency. Human Genetics, 2019, 138, 1227-1236. | 1.8 | 56 |
| 170 | Biallelic mutations of CFAP251 cause sperm flagellar defects and human male infertility. Journal of Human Genetics, 2019, 64, 49-54. | 1.1 | 56 |
| 171 | Biallelic mutations inCFAP65cause male infertility with multiple morphological abnormalities of the sperm flagella in humans and mice. Journal of Medical Genetics, 2020, 57, 89-95. | 1.5 | 55 |
| 172 | Alu-specific microhomology-mediated deletion of the final exon of SPAST in three unrelated subjects with hereditary spastic paraplegia. Genetics in Medicine, 2011, 13, 582-592. | 1.1 | 53 |
| 173 | Non-transgenic Plant Genome Editing Using Purified Sequence-Specific Nucleases. Molecular Plant, 2015, 8, 1425-1427. | 3.9 | 52 |
| 174 | Curing hemophilia A by NHEJ-mediated ectopic F8 insertion in the mouse. Genome Biology, 2019, 20, 276. | 3.8 | 50 |
| 175 | Disruption in ACTL7A causes acrosomal ultrastructural defects in human and mouse sperm as a novel male factor inducing early embryonic arrest. Science Advances, 2020, 6, eaaz4796. | 4.7 | 50 |
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