List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6030692/publications.pdf Version: 2024-02-01

| | | 19657 | 21540 |
|----------|----------------|--------------|----------------|
| 116 | 21,691 | 61 | 114 |
| papers | citations | h-index | g-index |
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| 132 | 132 | 132 | 33624 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

KUN ZHANC

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Accurate Multiplex Polony Sequencing of an Evolved Bacterial Genome. Science, 2005, 309, 1728-1732. | 12.6 | 1,189 |
| 2 | Somatic coding mutations in human induced pluripotent stem cells. Nature, 2011, 471, 63-67. | 27.8 | 1,147 |
| 3 | Increased methylation variation in epigenetic domains across cancer types. Nature Genetics, 2011, 43, 768-775. | 21.4 | 968 |
| 4 | In vivo genome editing via CRISPR/Cas9 mediated homology-independent targeted integration. Nature, 2016, 540, 144-149. | 27.8 | 906 |
| 5 | Interrogating a High-Density SNP Map for Signatures of Natural Selection. Genome Research, 2002, 12, 1805-1814. | 5.5 | 852 |
| 6 | Neuronal subtypes and diversity revealed by single-nucleus RNA sequencing of the human brain. Science, 2016, 352, 1586-1590. | 12.6 | 822 |
| 7 | Integrative single-cell analysis of transcriptional and epigenetic states in the human adult brain. Nature Biotechnology, 2018, 36, 70-80. | 17.5 | 762 |
| 8 | Genome-wide Regulation of 5hmC, 5mC, and Gene Expression by Tet1 Hydroxylase in Mouse Embryonic Stem Cells. Molecular Cell, 2011, 42, 451-464. | 9.7 | 551 |
| 9 | High-throughput sequencing of the transcriptome and chromatin accessibility in the same cell. Nature Biotechnology, 2019, 37, 1452-1457. | 17.5 | 550 |
| 10 | Recapitulation of premature ageing with iPSCs from Hutchinson–Gilford progeria syndrome. Nature, 2011, 472, 221-225. | 27.8 | 510 |
| 11 | Whole-Genome Sequencing in Autism Identifies Hot Spots for De Novo Germline Mutation. Cell, 2012, 151, 1431-1442. | 28.9 | 501 |
| 12 | Genome-Wide Identification of Human RNA Editing Sites by Parallel DNA Capturing and Sequencing. Science, 2009, 324, 1210-1213. | 12.6 | 483 |
| 13 | Targeted bisulfite sequencing reveals changes in DNA methylation associated with nuclear reprogramming. Nature Biotechnology, 2009, 27, 353-360. | 17.5 | 458 |
| 14 | The metabolome of induced pluripotent stem cells reveals metabolic changes occurring in somatic cell reprogramming. Cell Research, 2012, 22, 168-177. | 12.0 | 452 |
| 15 | Genome-wide Analysis Reveals TET- and TDG-Dependent 5-Methylcytosine Oxidation Dynamics. Cell, 2013, 153, 692-706. | 28.9 | 440 |
| 16 | Fluorescent in situ sequencing (FISSEQ) of RNA for gene expression profiling in intact cells and tissues. Nature Protocols, 2015, 10, 442-458. | 12.0 | 422 |
| 17 | Distribution of Recombination Crossovers and the Origin of Haplotype Blocks: The Interplay of Population History, Recombination, and Mutation. American Journal of Human Genetics, 2002, 71, 1227-1234. | 6.2 | 399 |
| 18 | Multiplex amplification of large sets of human exons. Nature Methods, 2007, 4, 931-936. | 19.0 | 392 |

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|----|--|------|-----------|
| 19 | Sequencing genomes from single cells by polymerase cloning. Nature Biotechnology, 2006, 24, 680-686. | 17.5 | 388 |
| 20 | Identification of methylation haplotype blocks aids in deconvolution of heterogeneous tissue samples and tumor tissue-of-origin mapping from plasma DNA. Nature Genetics, 2017, 49, 635-642. | 21.4 | 384 |
| 21 | Comparative cellular analysis of motor cortex in human, marmoset and mouse. Nature, 2021, 598, 111-119. | 27.8 | 361 |
| 22 | Characterizing transcriptional heterogeneity through pathway and gene set overdispersion analysis. Nature Methods, 2016, 13, 241-244. | 19.0 | 356 |
| 23 | Allele-specific methylation is prevalent and is contributed by CpG-SNPs in the human genome. Genome Research, 2010, 20, 883-889. | 5.5 | 343 |
| 24 | Non-invasive early detection of cancer four years before conventional diagnosis using a blood test. Nature Communications, 2020, 11, 3475. | 12.8 | 341 |
| 25 | A multimodal cell census and atlas of the mammalian primary motor cortex. Nature, 2021, 598, 86-102. | 27.8 | 316 |
| 26 | Single-nucleus analysis of accessible chromatin in developing mouse forebrain reveals cell-type-specific transcriptional regulation. Nature Neuroscience, 2018, 21, 432-439. | 14.8 | 290 |
| 27 | Evolutionary History and Adaptation from High-Coverage Whole-Genome Sequences of Diverse African Hunter-Gatherers. Cell, 2012, 150, 457-469. | 28.9 | 289 |
| 28 | Quantitative comparison of DNA methylation assays for biomarker development and clinical applications. Nature Biotechnology, 2016, 34, 726-737. | 17.5 | 270 |
| 29 | Tet1 controls meiosis by regulating meiotic gene expression. Nature, 2012, 492, 443-447. | 27.8 | 255 |
| 30 | Massively parallel polymerase cloning and genome sequencing of single cells using nanoliter microwells. Nature Biotechnology, 2013, 31, 1126-1132. | 17.5 | 231 |
| 31 | Advances in the profiling of DNA modifications: cytosine methylation and beyond. Nature Reviews Genetics, 2014, 15, 647-661. | 16.3 | 224 |
| 32 | Human oocytes reprogram somatic cells to a pluripotent state. Nature, 2011, 478, 70-75. | 27.8 | 221 |
| 33 | Targeted Gene Correction of Laminopathy-Associated LMNA Mutations in Patient-Specific iPSCs. Cell Stem Cell, 2011, 8, 688-694. | 11.1 | 214 |
| 34 | A comparative strategy for single-nucleus and single-cell transcriptomes confirms accuracy in predicted cell-type expression from nuclear RNA. Scientific Reports, 2017, 7, 6031. | 3.3 | 209 |
| 35 | A single-nucleus RNA-sequencing pipeline to decipher the molecular anatomy and pathophysiology of human kidneys. Nature Communications, 2019, 10, 2832. | 12.8 | 206 |
| 36 | The regulation of integrin function by divalent cations. Cell Adhesion and Migration, 2012, 6, 20-29. | 2.7 | 205 |

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|----|--|------|-----------|
| 37 | Humanized Mice Reveal Differential Immunogenicity of Cells Derived from Autologous Induced Pluripotent Stem Cells. Cell Stem Cell, 2015, 17, 353-359. | 11.1 | 198 |
| 38 | A public resource facilitating clinical use of genomes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11920-11927. | 7.1 | 194 |
| 39 | Optimal Timing of Inner Cell Mass Isolation Increases the Efficiency of Human Embryonic Stem Cell Derivation and Allows Generation of Sibling Cell Lines. Cell Stem Cell, 2009, 4, 103-106. | 11.1 | 171 |
| 40 | The Presenilin-1 ΔE9 Mutation Results in Reduced γ-Secretase Activity, but Not Total Loss of PS1 Function, in Isogenic Human Stem Cells. Cell Reports, 2013, 5, 974-985. | 6.4 | 168 |
| 41 | Performance evaluation of pathogenicity-computation methods for missense variants. Nucleic Acids Research, 2018, 46, 7793-7804. | 14.5 | 168 |
| 42 | ldentification of a specific reprogramming-associated epigenetic signature in human induced pluripotent stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16196-16201. | 7.1 | 152 |
| 43 | Dynamics of 5-methylcytosine and 5-hydroxymethylcytosine during germ cell reprogramming. Cell Research, 2013, 23, 329-339. | 12.0 | 152 |
| 44 | Genetic correction and analysis of induced pluripotent stem cells from a patient with gyrate atrophy. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6537-6542. | 7.1 | 150 |
| 45 | Digital RNA allelotyping reveals tissue-specific and allele-specific gene expression in human. Nature Methods, 2009, 6, 613-618. | 19.0 | 149 |
| 46 | VarCards: an integrated genetic and clinical database for coding variants in the human genome. Nucleic Acids Research, 2018, 46, D1039-D1048. | 14.5 | 148 |
| 47 | The IncRNA DEANR1 Facilitates Human Endoderm Differentiation by Activating FOXA2 Expression. Cell Reports, 2015, 11, 137-148. | 6.4 | 127 |
| 48 | Comparable Frequencies of Coding Mutations and Loss of Imprinting in Human Pluripotent Cells Derived by Nuclear Transfer and Defined Factors. Cell Stem Cell, 2014, 15, 634-642. | 11.1 | 113 |
| 49 | HaploBlockFinder: haplotype block analyses. Bioinformatics, 2003, 19, 1300-1301. | 4.1 | 112 |
| 50 | The Effect That Genotyping Errors Have on the Robustness of Common Linkage-Disequilibrium Measures. American Journal of Human Genetics, 2001, 68, 1447-1456. | 6.2 | 110 |
| 51 | Modelling Fanconi anemia pathogenesis and therapeutics using integration-free patient-derived iPSCs. Nature Communications, 2014, 5, 4330. | 12.8 | 102 |
| 52 | Long-range polony haplotyping of individual human chromosome molecules. Nature Genetics, 2006, 38, 382-387. | 21.4 | 97 |
| 53 | Targeted sequencing and functional analysis reveal brain-size-related genes and their networks in autism spectrum disorders. Molecular Psychiatry, 2017, 22, 1282-1290. | 7.9 | 95 |
| 54 | Rationale and design of the Kidney Precision Medicine Project. Kidney International, 2021, 99, 498-510. | 5.2 | 94 |

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| 55 | Library-free methylation sequencing with bisulfite padlock probes. Nature Methods, 2012, 9, 270-272. | 19.0 | 92 |
| 56 | The Action of Discoidin Domain Receptor 2 in Basal Tumor Cells and Stromal Cancer-Associated Fibroblasts Is Critical for Breast Cancer Metastasis. Cell Reports, 2016, 15, 2510-2523. | 6.4 | 85 |
| 57 | Genetic evidence of gender difference in autism spectrum disorder supports the female-protective effect. Translational Psychiatry, 2020, 10, 4. | 4.8 | 84 |
| 58 | Tools for the analysis of high-dimensional single-cell RNA sequencing data. Nature Reviews Nephrology, 2020, 16, 408-421. | 9.6 | 80 |
| 59 | Distinct Chemokine Signaling Regulates Integrin Ligand Specificity to Dictate Tissue-Specific Lymphocyte Homing. Developmental Cell, 2014, 30, 61-70. | 7.0 | 75 |
| 60 | Chromatin signature of widespread monoallelic expression. ELife, 2013, 2, e01256. | 6.0 | 71 |
| 61 | Fever Promotes T Lymphocyte Trafficking via a Thermal Sensory Pathway Involving Heat Shock Protein 90 and α4 Integrins. Immunity, 2019, 50, 137-151.e6. | 14.3 | 69 |
| 62 | Finding the Needles in the Metagenome Haystack. Microbial Ecology, 2007, 53, 475-485. | 2.8 | 68 |
| 63 | The Effect of Single Nucleotide Polymorphism Identification Strategies on Estimates of Linkage Disequilibrium. Molecular Biology and Evolution, 2003, 20, 232-242. | 8.9 | 67 |
| 64 | A reference tissue atlas for the human kidney. Science Advances, 2022, 8, . | 10.3 | 67 |
| 65 | PAK2 Haploinsufficiency Results in Synaptic Cytoskeleton Impairment and Autism-Related Behavior. Cell Reports, 2018, 24, 2029-2041. | 6.4 | 64 |
| 66 | Visualizing and Interpreting Single-Cell Gene Expression Datasets with Similarity Weighted Nonnegative Embedding. Cell Systems, 2018, 7, 656-666.e4. | 6.2 | 63 |
| 67 | Transcriptomic signature associated with carcinogenesis and aggressiveness of papillary thyroid carcinoma. Theranostics, 2018, 8, 4345-4358. | 10.0 | 63 |
| 68 | Multiplex padlock targeted sequencing reveals human hypermutable CpG variations. Genome Research, 2009, 19, 1606-1615. | 5.5 | 62 |
| 69 | Targeted bisulfite sequencing by solution hybrid selection and massively parallel sequencing. Nucleic Acids Research, 2011, 39, e127-e127. | 14.5 | 61 |
| 70 | A multimodal and integrated approach to interrogate human kidney biopsies with rigor and reproducibility: guidelines from the Kidney Precision Medicine Project. Physiological Genomics, 2021, 53, 1-11. | 2.3 | 59 |
| 71 | Analysis of protein-coding mutations in hiPSCs and their possible role during somatic cell reprogramming. Nature Communications, 2013, 4, 1382. | 12.8 | 58 |
| 72 | Mechanical signals regulate and activate SNAIL1 protein to control the fibrogenic response of CAFs. Journal of Cell Science, 2016, 129, 1989-2002. | 2.0 | 57 |

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| 73 | Characterization of chromatin accessibility with a transposome hypersensitive sites sequencing (THS-seq) assay. Genome Biology, 2016, 17, 20. | 8.8 | 55 |
| 74 | A Robust Approach to Identifying Tissue-Specific Gene Expression Regulatory Variants Using Personalized Human Induced Pluripotent Stem Cells. PLoS Genetics, 2009, 5, e1000718. | 3.5 | 55 |
| 75 | Targeted methylation sequencing reveals dysregulated Wnt signaling in Parkinson disease. Journal of Genetics and Genomics, 2016, 43, 587-592. | 3.9 | 52 |
| 76 | Precise in vivo genome editing via single homology arm donor mediated intron-targeting gene integration for genetic disease correction. Cell Research, 2019, 29, 804-819. | 12.0 | 51 |
| 77 | Specific Sorting of Single Bacterial Cells with Microfabricated Fluorescence-Activated Cell Sorting and Tyramide Signal Amplification Fluorescence in Situ Hybridization. Analytical Chemistry, 2011, 83, 7269-7275. | 6.5 | 50 |
| 78 | AJUBA LIM Proteins Limit Hippo Activity in Proliferating Cells by Sequestering the Hippo Core Kinase Complex in the Cytosol. Molecular and Cellular Biology, 2016, 36, 2526-2542. | 2.3 | 50 |
| 79 | Randomly distributed crossovers may generate block-like patterns of linkage disequilibrium: an act of genetic drift. Human Genetics, 2003, 113, 51-59. | 3.8 | 41 |
| 80 | Ultraaccurate genome sequencing and haplotyping of single human cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12512-12517. | 7.1 | 41 |
| 81 | Mapping Cellular Reprogramming via Pooled Overexpression Screens with Paired Fitness and Single-Cell RNA-Sequencing Readout. Cell Systems, 2018, 7, 548-555.e8. | 6.2 | 35 |
| 82 | DNA methylation identifies genetically and prognostically distinct subtypes of myelodysplastic syndromes. Blood Advances, 2019, 3, 2845-2858. | 5.2 | 32 |
| 83 | Defining the Teratoma as a Model for Multi-lineage Human Development. Cell, 2020, 183, 1402-1419.e18. | 28.9 | 32 |
| 84 | Discovery of genomic loci of the human cerebral cortex using genetically informed brain atlases. Science, 2022, 375, 522-528. | 12.6 | 31 |
| 85 | Rapid identification of heterozygous mutations in <i>Drosophila melanogaster</i> using genomic capture sequencing. Genome Research, 2010, 20, 981-988. | 5.5 | 30 |
| 86 | Temporal analyses of postnatal liver development and maturation by single-cell transcriptomics. Developmental Cell, 2022, 57, 398-414.e5. | 7.0 | 30 |
| 87 | Global DNA methylation and transcriptional analyses of human ESC-derived cardiomyocytes. Protein and Cell, 2014, 5, 59-68. | 11.0 | 26 |
| 88 | A comparative study of the genetic components of three subcategories of autism spectrum disorder. Molecular Psychiatry, 2019, 24, 1720-1731. | 7.9 | 22 |
| 89 | Mouse SCNT ESCs Have Lower Somatic Mutation Load Than SyngeneicÂiPSCs. Stem Cell Reports, 2014, 2, 399-405. | 4.8 | 20 |
| 90 | Vitamin Dâ€related genes are subjected to significant <i>de novo</i> mutation burdens in autism spectrum disorder. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2017, 174, 568-577. | 1.7 | 20 |

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| 91 | On the design of clone-based haplotyping. Genome Biology, 2013, 14, R100. | 9.6 | 18 |
| 92 | The role of the NMD factor UPF3B in olfactory sensory neurons. ELife, 2020, 9, . | 6.0 | 18 |
| 93 | Scalable dual-omics profiling with single-nucleus chromatin accessibility and mRNA expression sequencing 2 (SNARE-seq2). Nature Protocols, 2021, 16, 4992-5029. | 12.0 | 18 |
| 94 | Characterization of Genome-Methylome Interactions in 22 Nuclear Pedigrees. PLoS ONE, 2014, 9, e99313. | 2.5 | 15 |
| 95 | RETrace: simultaneous retrospective lineage tracing and methylation profiling of single cells. Genome Research, 2020, 30, 602-610. | 5.5 | 14 |
| 96 | Microfluidic devices with permeable polymer barriers for capture and transport of biomolecules and cells. Lab on A Chip, 2013, 13, 3389. | 6.0 | 13 |
| 97 | TET1s deficiency exacerbates oscillatory shear flow-induced atherosclerosis. International Journal of Biological Sciences, 2022, 18, 2163-2180. | 6.4 | 13 |
| 98 | A single-cell regulatory map of postnatal lung alveologenesis in humans and mice. Cell Genomics, 2022, 2, 100108. | 6.5 | 13 |
| 99 | The Unique Disulfide Bond-stabilized W1 β4-β1 Loop in the α4 β-Propeller Domain Regulates Integrin α4β7 Affinity and Signaling. Journal of Biological Chemistry, 2013, 288, 14228-14237. | 3.4 | 12 |
| 100 | Development and Bias Assessment of a Method for Targeted Metagenomic Sequencing of Marine Cyanobacteria. Applied and Environmental Microbiology, 2014, 80, 1116-1125. | 3.1 | 12 |
| 101 | Cellular Recruitment by Podocyte-Derived Pro-migratory Factors in Assembly of the Human Renal Filter. IScience, 2019, 20, 402-414. | 4.1 | 11 |
| 102 | Dedifferentiationâ€associated inflammatory factors of longâ€ŧerm expanded human hepatocytes exacerbate their elimination by macrophages during liver engraftment. Hepatology, 2022, 76, 1690-1705. | 7.3 | 11 |
| 103 | High-resolution RNA allelotyping along the inactive X chromosome: evidence of RNA polymerase III in regulating chromatin configuration. Scientific Reports, 2017, 7, 45460. | 3.3 | 10 |
| 104 | Disruption of disulfide-restriction at integrin knees induces activation and ligand-independent signaling of α4β7. Journal of Cell Science, 2013, 126, 5030-41. | 2.0 | 8 |
| 105 | Mediators and dynamics of DNA methylation. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2011, 3, 281-298. | 6.6 | 7 |
| 106 | Epigenetically Silenced Candidate Tumor Suppressor Genes in Prostate Cancer: Identified by Modeling Methylation Stratification and Applied to Progression Prediction. Cancer Epidemiology Biomarkers and Prevention, 2019, 28, 198-207. | 2.5 | 5 |
| 107 | A new approach to decode DNA methylome and genomic variants simultaneously from double strand bisulfite sequencing. Briefings in Bioinformatics, 2021, 22, . | 6.5 | 5 |
| 108 | Gel-seq: whole-genome and transcriptome sequencing by simultaneous low-input DNA and RNA library preparation using semi-permeable hydrogel barriers. Lab on A Chip, 2017, 17, 2619-2630. | 6.0 | 3 |

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| 109 | 5-Azacytidine Transiently Restores Dysregulated Erythroid Differentiation Gene Expression in TET2-Deficient Erythroleukemia Cells. Molecular Cancer Research, 2021, 19, 451-464. | 3.4 | 3 |
| 110 | Global DNA methylation and transcriptional analyses of human ESC-derived cardiomyocytes. Protein and Cell, 2013, 5, 59. | 11.0 | 3 |
| 111 | Charting oncogenicity of genes and variants across lineages via multiplexed screens in teratomas. IScience, 2021, 24, 103149. | 4.1 | 2 |
| 112 | Gel-seq: A Method for Simultaneous Sequencing Library Preparation of DNA and RNA Using Hydrogel Matrices. Journal of Visualized Experiments, 2018, , . | 0.3 | 1 |
| 113 | Large-Scale Targeted DNA Methylation Analysis Using Bisulfite Padlock Probes. Methods in Molecular Biology, 2018, 1708, 365-382. | 0.9 | 1 |
| 114 | Reply to â€~DNA methylation haplotypes as cancer markers'. Nature Genetics, 2018, 50, 1063-1066. | 21.4 | 1 |
| 115 | Genome-wide mapping of the sixth base. Genome Biology, 2011, 12, 116. | 9.6 | 0 |
| 116 | DNA Methylation Identifies Genetically and Prognostically Distinct Subtypes of MDS. Blood, 2018, 132, 106-106. | 1.4 | 0 |