

Alexej Abyzov

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

56,896
citations

93792

39
h-index

73587

79
g-index

95
all docs

95
docs citations

95
times ranked

90645
citing authors

#	ARTICLE	IF	CITATIONS
1	An integrated encyclopedia of DNA elements in the human genome. <i>Nature</i> , 2012, 489, 57-74.	13.7	15,516
2	A global reference for human genetic variation. <i>Nature</i> , 2015, 526, 68-74.	13.7	13,998
3	A map of human genome variation from population-scale sequencing. <i>Nature</i> , 2010, 467, 1061-1073.	13.7	7,209
4	An integrated map of genetic variation from 1,092 human genomes. <i>Nature</i> , 2012, 491, 56-65.	13.7	7,199
5	An integrated map of structural variation in 2,504 human genomes. <i>Nature</i> , 2015, 526, 75-81.	13.7	1,994
6	CNVnator: An approach to discover, genotype, and characterize typical and atypical CNVs from family and population genome sequencing. <i>Genome Research</i> , 2011, 21, 974-984.	2.4	1,387
7	Architecture of the human regulatory network derived from ENCODE data. <i>Nature</i> , 2012, 489, 91-100.	13.7	1,384
8	Mapping copy number variation by population-scale genome sequencing. <i>Nature</i> , 2011, 470, 59-65.	13.7	991
9	FOXP1-Dependent Dysregulation of GABA/Glutamate Neuron Differentiation in Autism Spectrum Disorders. <i>Cell</i> , 2015, 162, 375-390.	13.5	894
10	Transcriptome-wide isoform-level dysregulation in ASD, schizophrenia, and bipolar disorder. <i>Science</i> , 2018, 362, .	6.0	805
11	Comprehensive functional genomic resource and integrative model for the human brain. <i>Science</i> , 2018, 362, .	6.0	618
12	Integrative functional genomic analysis of human brain development and neuropsychiatric risks. <i>Science</i> , 2018, 362, .	6.0	516
13	The PsychENCODE project. <i>Nature Neuroscience</i> , 2015, 18, 1707-1712.	7.1	371
14	Somatic copy number mosaicism in human skin revealed by induced pluripotent stem cells. <i>Nature</i> , 2012, 492, 438-442.	13.7	355
15	Integrative Annotation of Variants from 1092 Humans: Application to Cancer Genomics. <i>Science</i> , 2013, 342, 1235587.	6.0	341
16	AlleleSeq: analysis of allele-specific expression and binding in a network framework. <i>Molecular Systems Biology</i> , 2011, 7, 522.	3.2	284
17	PEMer: a computational framework with simulation-based error models for inferring genomic structural variants from massive paired-end sequencing data. <i>Genome Biology</i> , 2009, 10, R23.	13.9	223
18	Transcriptome and epigenome landscape of human cortical development modeled in organoids. <i>Science</i> , 2018, 362, .	6.0	220

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19	Different mutational rates and mechanisms in human cells at pregastrulation and neurogenesis. <i>Science</i> , 2018, 359, 550-555.	6.0	216
20	Intersection of diverse neuronal genomes and neuropsychiatric disease: The Brain Somatic Mosaicism Network. <i>Science</i> , 2017, 356, .	6.0	206
21	Human induced pluripotent stem cells for modelling neurodevelopmental disorders. <i>Nature Reviews Neurology</i> , 2017, 13, 265-278.	4.9	135
22	MetaSV: an accurate and integrative structural-variant caller for next generation sequencing. <i>Bioinformatics</i> , 2015, 31, 2741-2744.	1.8	131
23	UmuD and RecA Directly Modulate the Mutagenic Potential of the Y Family DNA Polymerase DinB. <i>Molecular Cell</i> , 2007, 28, 1058-1070.	4.5	99
24	AGE: defining breakpoints of genomic structural variants at single-nucleotide resolution, through optimal alignments with gap excision. <i>Bioinformatics</i> , 2011, 27, 595-603.	1.8	84
25	Structural alignment of proteins by a novel TOPOFIT method, as a superimposition of common volumes at a topomax point. <i>Protein Science</i> , 2004, 13, 1865-1874.	3.1	81
26	A uniform survey of allele-specific binding and expression over 1000-Genomes-Project individuals. <i>Nature Communications</i> , 2016, 7, 11101.	5.8	78
27	Comprehensive, integrated, and phased whole-genome analysis of the primary ENCODE cell line K562. <i>Genome Research</i> , 2019, 29, 472-484.	2.4	78
28	Analysis of deletion breakpoints from 1,092 humans reveals details of mutation mechanisms. <i>Nature Communications</i> , 2015, 6, 7256.	5.8	77
29	Molecular signatures of multiple myeloma progression through single cell RNA-Seq. <i>Blood Cancer Journal</i> , 2019, 9, 2.	2.8	74
30	Landmarks of human embryonic development inscribed in somatic mutations. <i>Science</i> , 2021, 371, 1249-1253.	6.0	65
31	Single-cell analysis of targeted transcriptome predicts drug sensitivity of single cells within human myeloma tumors. <i>Leukemia</i> , 2016, 30, 1094-1102.	3.3	64
32	One thousand somatic SNVs per skin fibroblast cell set baseline of mosaic mutational load with patterns that suggest proliferative origin. <i>Genome Research</i> , 2017, 27, 512-523.	2.4	64
33	Comprehensive performance comparison of high-resolution array platforms for genome-wide Copy Number Variation (CNV) analysis in humans. <i>BMC Genomics</i> , 2017, 18, 321.	1.2	60
34	VarSim: a high-fidelity simulation and validation framework for high-throughput genome sequencing with cancer applications. <i>Bioinformatics</i> , 2015, 31, 1469-1471.	1.8	59
35	Genome-Wide Mapping of Copy Number Variation in Humans: Comparative Analysis of High Resolution Array Platforms. <i>PLoS ONE</i> , 2011, 6, e27859.	1.1	59
36	Analysis of variable retroduplications in human populations suggests coupling of retrotransposition to cell division. <i>Genome Research</i> , 2013, 23, 2042-2052.	2.4	52

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37	Patient-reported (EORTC QLQ-CIPN20) versus physician-reported (CTCAE) quantification of oxaliplatin- and paclitaxel/carboplatin-induced peripheral neuropathy in NCCTG/Alliance clinical trials. <i>Supportive Care in Cancer</i> , 2017, 25, 3537-3544.	1.0	52
38	Testing of candidate single nucleotide variants associated with paclitaxel neuropathy in the trial <sc>NCCTG</sc> N08C1 (Alliance). <i>Cancer Medicine</i> , 2016, 5, 631-639.	1.3	48
39	Haplotype-resolved and integrated genome analysis of the cancer cell line HepG2. <i>Nucleic Acids Research</i> , 2019, 47, 3846-3861.	6.5	45
40	Structure SNP (StSNP): a web server for mapping and modeling nsSNPs on protein structures with linkage to metabolic pathways. <i>Nucleic Acids Research</i> , 2007, 35, W384-W392.	6.5	43
41	Early developmental asymmetries in cell lineage trees in living individuals. <i>Science</i> , 2021, 371, 1245-1248.	6.0	39
42	CNVpytor: a tool for copy number variation detection and analysis from read depth and allele imbalance in whole-genome sequencing. <i>GigaScience</i> , 2021, 10, .	3.3	38
43	Integration of protein motions with molecular networks reveals different mechanisms for permanent and transient interactions. <i>Protein Science</i> , 2011, 20, 1745-1754.	3.1	37
44	Regulatory element copy number differences shape primate expression profiles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12656-12661.	3.3	37
45	Molecular characterization of colorectal adenomas with and without malignancy reveals distinguishing genome, transcriptome and methylome alterations. <i>Scientific Reports</i> , 2018, 8, 3161.	1.6	35
46	MSB: A mean-shift-based approach for the analysis of structural variation in the genome. <i>Genome Research</i> , 2009, 19, 106-117.	2.4	33
47	Annual Research Review: The promise of stem cell research for neuropsychiatric disorders. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2011, 52, 504-516.	3.1	33
48	Landscape and variation of novel retroduplications in 26 human populations. <i>PLoS Computational Biology</i> , 2017, 13, e1005567.	1.5	30
49	RigidFinder: A fast and sensitive method to detect rigid blocks in large macromolecular complexes. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 309-324.	1.5	29
50	Comprehensive identification of somatic nucleotide variants in human brain tissue. <i>Genome Biology</i> , 2021, 22, 92.	3.8	26
51	Somatic mosaicism reveals clonal distributions of neocortical development. <i>Nature</i> , 2022, 604, 689-696.	13.7	26
52	Child Development and Structural Variation in the Human Genome. <i>Child Development</i> , 2013, 84, 34-48.	1.7	23
53	Combining copy number, methylation markers, and mutations as a panel for endometrial cancer detection via intravaginal tampon collection. <i>Gynecologic Oncology</i> , 2020, 156, 387-392.	0.6	22
54	Machine learning reveals bilateral distribution of somatic L1 insertions in human neurons and glia. <i>Nature Neuroscience</i> , 2021, 24, 186-196.	7.1	22

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55	Friend, an integrated analytical front-end application for bioinformatics. <i>Bioinformatics</i> , 2005, 21, 3677-3678.	1.8	21
56	Analysis of Combinatorial Regulation: Scaling of Partnerships between Regulators with the Number of Governed Targets. <i>PLoS Computational Biology</i> , 2010, 6, e1000755.	1.5	21
57	Complex mosaic structural variations in human fetal brains. <i>Genome Research</i> , 2020, 30, 1695-1704.	2.4	21
58	The role of somatic mosaicism in brain disease. <i>Current Opinion in Genetics and Development</i> , 2020, 65, 84-90.	1.5	20
59	A comprehensive analysis of non-sequential alignments between all protein structures. <i>BMC Structural Biology</i> , 2007, 7, 78.	2.3	19
60	Adult diffuse glioma GWAS by molecular subtype identifies variants in <i>D2HGDH</i> and <i>FAM20C</i> . <i>Neuro-Oncology</i> , 2020, 22, 1602-1613.	0.6	19
61	An AP Endonuclease 1â€“DNA Polymerase Î² Complex: Theoretical Prediction of Interacting Surfaces. <i>PLoS Computational Biology</i> , 2008, 4, e1000066.	1.5	17
62	Detection and Quantification of Mosaic Genomic DNA Variation in Primary Somatic Tissues Using ddPCR: Analysis of Mosaic Transposable-Element Insertions, Copy-Number Variants, and Single-Nucleotide Variants. <i>Methods in Molecular Biology</i> , 2018, 1768, 173-190.	0.4	17
63	TOPOFIT-DB, a database of protein structural alignments based on the TOPOFIT method. <i>Nucleic Acids Research</i> , 2007, 35, D317-D321.	6.5	15
64	PsychENCODE and beyond: transcriptomics and epigenomics of brain development and organoids. <i>Neuropsychopharmacology</i> , 2021, 46, 70-85.	2.8	15
65	Chromatin organization modulates the origin of heritable structural variations in human genome. <i>Nucleic Acids Research</i> , 2019, 47, 2766-2777.	6.5	12
66	ACTIVE SITE PREDICTION FOR COMPARATIVE MODEL STRUCTURES WITH THEMATICS. <i>Journal of Bioinformatics and Computational Biology</i> , 2005, 03, 127-143.	0.3	10
67	Cell Lineage Tracing and Cellular Diversity in Humans. <i>Annual Review of Genomics and Human Genetics</i> , 2020, 21, 101-116.	2.5	10
68	Colorectal Cancer with Residual Polyp of Origin: A Model of Malignant Transformation. <i>Translational Oncology</i> , 2016, 9, 280-286.	1.7	9
69	Elevated variant density around SV breakpoints in germline lineage lends support to error-prone replication hypothesis. <i>Genome Research</i> , 2016, 26, 874-881.	2.4	7
70	Understanding genome structural variations. <i>Oncotarget</i> , 2016, 7, 7370-7371.	0.8	6
71	SCELLECTOR: ranking amplification bias in single cells using shallow sequencing. <i>BMC Bioinformatics</i> , 2020, 21, 521.	1.2	3
72	Neurological safety of oxaliplatin in patients with uncommon variants in Charcot-Marie-tooth disease genes. <i>Journal of the Neurological Sciences</i> , 2020, 411, 116687.	0.3	3

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73	Inferring modes of evolution from colorectal cancer with residual polyp of origin. <i>Oncotarget</i> , 2018, 9, 6780-6792.	0.8	3
74	Postmortem Human Dura Mater Cells Exhibit Phenotypic, Transcriptomic and Genetic Abnormalities that Impact their Use for Disease Modeling. <i>Stem Cell Reviews and Reports</i> , 2022, 18, 3050-3065.	1.7	3
75	LongAGE: defining breakpoints of genomic structural variants through optimal and memory efficient alignments of long reads. <i>Bioinformatics</i> , 2021, 37, 1015-1017.	1.8	2
76	All2: A tool for selecting mosaic mutations from comprehensive multi-cell comparisons. <i>PLoS Computational Biology</i> , 2022, 18, e1009487.	1.5	2
77	Principles and Approaches for Discovery and Validation of Somatic Mosaicism in the Human Brain. <i>Neuroinformatics</i> , 2017, , 3-24.	0.2	1
78	Approaches and Methods for Variant Analysis in the Genome of a Single Cell. <i>Healthy Ageing and Longevity</i> , 2019, , 203-228.	0.2	1
79	Induced pluripotent stem cells as models of human neurodevelopmental disorders. , 2020, , 99-127.		0
80	Analysis of Cell and Nucleus Genome by Next-Generation Sequencing. , 2020, , 35-65.		0