

Ryan E Mills

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8820796/ryan-e-mills-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83
papers

32,924
citations

44
h-index

93
g-index

93
ext. papers

40,426
ext. citations

18.6
avg, IF

6.46
L-index

#	Paper	IF	Citations
83	A global reference for human genetic variation. <i>Nature</i> , 2015 , 526, 68-74	50.4	8599
82	A map of human genome variation from population-scale sequencing. <i>Nature</i> , 2010 , 467, 1061-73	50.4	6142
81	An integrated map of genetic variation from 1,092 human genomes. <i>Nature</i> , 2012 , 491, 56-65	50.4	6049
80	An integrated map of structural variation in 2,504 human genomes. <i>Nature</i> , 2015 , 526, 75-81	50.4	1368
79	A systematic survey of loss-of-function variants in human protein-coding genes. <i>Science</i> , 2012 , 335, 823-833	33.3	880
78	Mapping copy number variation by population-scale genome sequencing. <i>Nature</i> , 2011 , 470, 59-65	50.4	833
77	Classical nuclear localization signals: definition, function, and interaction with importin alpha. <i>Journal of Biological Chemistry</i> , 2007 , 282, 5101-5	5.4	824
76	Diversity of human copy number variation and multicopy genes. <i>Science</i> , 2010 , 330, 641-6	33.3	491
75	Demographic history and rare allele sharing among human populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 11983-8	11.5	455
74	An initial map of insertion and deletion (INDEL) variation in the human genome. <i>Genome Research</i> , 2006 , 16, 1182-90	9.7	455
73	Natural mutagenesis of human genomes by endogenous retrotransposons. <i>Cell</i> , 2010 , 141, 1253-61	56.2	445
72	Variation in genome-wide mutation rates within and between human families. <i>Nature Genetics</i> , 2011 , 43, 712-4	36.3	404
71	Multi-platform discovery of haplotype-resolved structural variation in human genomes. <i>Nature Communications</i> , 2019 , 10, 1784	17.4	346
70	Comprehensive assessment of array-based platforms and calling algorithms for detection of copy number variants. <i>Nature Biotechnology</i> , 2011 , 29, 512-20	44.5	333
69	Which transposable elements are active in the human genome?. <i>Trends in Genetics</i> , 2007 , 23, 183-91	8.5	333
68	CGG repeat-associated translation mediates neurodegeneration in fragile X tremor ataxia syndrome. <i>Neuron</i> , 2013 , 78, 440-55	13.9	327
67	Integrative annotation of variants from 1092 humans: application to cancer genomics. <i>Science</i> , 2013 , 342, 1235587	33.3	281

66	A highly annotated whole-genome sequence of a Korean individual. <i>Nature</i> , 2009 , 460, 1011-5	50.4	265
65	Integrating sequence and array data to create an improved 1000 Genomes Project haplotype reference panel. <i>Nature Communications</i> , 2014 , 5, 3934	17.4	253
64	Deleterious- and disease-allele prevalence in healthy individuals: insights from current predictions, mutation databases, and population-scale resequencing. <i>American Journal of Human Genetics</i> , 2012 , 91, 1022-32	11	221
63	Small insertions and deletions (INDELs) in human genomes. <i>Human Molecular Genetics</i> , 2010 , 19, R131-6	5.6	221
62	The 1000 Genomes Project: data management and community access. <i>Nature Methods</i> , 2012 , 9, 459-62	21.6	202
61	Active Alu retrotransposons in the human genome. <i>Genome Research</i> , 2008 , 18, 1875-83	9.7	192
60	Complex reorganization and predominant non-homologous repair following chromosomal breakage in karyotypically balanced germline rearrangements and transgenic integration. <i>Nature Genetics</i> , 2012 , 44, 390-7, S1	36.3	190
59	Natural genetic variation caused by small insertions and deletions in the human genome. <i>Genome Research</i> , 2011 , 21, 830-9	9.7	178
58	Discovery of common Asian copy number variants using integrated high-resolution array CGH and massively parallel DNA sequencing. <i>Nature Genetics</i> , 2010 , 42, 400-5	36.3	167
57	The functional spectrum of low-frequency coding variation. <i>Genome Biology</i> , 2011 , 12, R84	18.3	161
56	The Mobile Element Locator Tool (MELT): population-scale mobile element discovery and biology. <i>Genome Research</i> , 2017 , 27, 1916-1929	9.7	156
55	Intersection of diverse neuronal genomes and neuropsychiatric disease: The Brain Somatic Mosaicism Network. <i>Science</i> , 2017 , 356,	33.3	152
54	The origin, evolution, and functional impact of short insertion-deletion variants identified in 179 human genomes. <i>Genome Research</i> , 2013 , 23, 749-61	9.7	150
53	Structural variation in the sequencing era. <i>Nature Reviews Genetics</i> , 2020 , 21, 171-189	30.1	129
52	Identification of proteins associated with murine cytomegalovirus virions. <i>Journal of Virology</i> , 2004 , 78, 11187-97	6.6	121
51	Recently mobilized transposons in the human and chimpanzee genomes. <i>American Journal of Human Genetics</i> , 2006 , 78, 671-9	11	118
50	Genetics of Combined Pituitary Hormone Deficiency: Roadmap into the Genome Era. <i>Endocrine Reviews</i> , 2016 , 37, 636-675	27.2	106
49	The genomic landscape of polymorphic human nuclear mitochondrial insertions. <i>Nucleic Acids Research</i> , 2014 , 42, 12640-9	20.1	105

48	Haplotype-resolved diverse human genomes and integrated analysis of structural variation. <i>Science</i> , 2021 , 372,	33.3	100
47	A robust benchmark for detection of germline large deletions and insertions. <i>Nature Biotechnology</i> , 2020 , 38, 1347-1355	44.5	98
46	Extensive genetic diversity and substructuring among zebrafish strains revealed through copy number variant analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 529-34	11.5	87
45	Expanding the definition of the classical bipartite nuclear localization signal. <i>Traffic</i> , 2010 , 11, 311-23	5.7	83
44	Complete sequence and comparative analysis of the genome of herpes B virus (Cercopithecine herpesvirus 1) from a rhesus monkey. <i>Journal of Virology</i> , 2003 , 77, 6167-77	6.6	76
43	Primate genome architecture influences structural variation mechanisms and functional consequences. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15764-9	11.5	69
42	Prokaryotic gene prediction using GeneMark and GeneMark.hmm. <i>Current Protocols in Bioinformatics</i> , 2003 , Chapter 4, Unit4.5	24.2	60
41	Human genomic regions with exceptionally high levels of population differentiation identified from 911 whole-genome sequences. <i>Genome Biology</i> , 2014 , 15, R88	18.3	51
40	Refinement of primate copy number variation hotspots identifies candidate genomic regions evolving under positive selection. <i>Genome Biology</i> , 2011 , 12, R52	18.3	48
39	Analysis of variable retroduplications in human populations suggests coupling of retrotransposition to cell division. <i>Genome Research</i> , 2013 , 23, 2042-52	9.7	41
38	Improving gene annotation of complete viral genomes. <i>Nucleic Acids Research</i> , 2003 , 31, 7041-55	20.1	38
37	Cryptic and complex chromosomal aberrations in early-onset neuropsychiatric disorders. <i>American Journal of Human Genetics</i> , 2014 , 95, 454-61	11	37
36	Rapid, ultra low coverage copy number profiling of cell-free DNA as a precision oncology screening strategy. <i>Oncotarget</i> , 2017 , 8, 89848-89866	3.3	36
35	Identification and characterization of occult human-specific LINE-1 insertions using long-read sequencing technology. <i>Nucleic Acids Research</i> , 2020 , 48, 1146-1163	20.1	36
34	A PY-NLS nuclear targeting signal is required for nuclear localization and function of the <i>Saccharomyces cerevisiae</i> mRNA-binding protein Hrp1. <i>Journal of Biological Chemistry</i> , 2008 , 283, 12926-34	5.4	34
33	A robust benchmark for germline structural variant detection		34
32	SPECTre: a spectral coherence--based classifier of actively translated transcripts from ribosome profiling sequence data. <i>BMC Bioinformatics</i> , 2016 , 17, 482	3.6	31
31	FusorSV: an algorithm for optimally combining data from multiple structural variation detection methods. <i>Genome Biology</i> , 2018 , 19, 38	18.3	28

30	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, 12656-61	11.5	27
29	Multi-platform discovery of haplotype-resolved structural variation in human genomes		26
28	Resolving complex structural genomic rearrangements using a randomized approach. <i>Genome Biology</i> , 2016 , 17, 126	18.3	24
27	Increased genomic integrity of an improved protein-based mouse induced pluripotent stem cell method compared with current viral-induced strategies. <i>Stem Cells Translational Medicine</i> , 2014 , 3, 599-609	6.9	20
26	The landscape of somatic mutation in cerebral cortex of autistic and neurotypical individuals revealed by ultra-deep whole-genome sequencing. <i>Nature Neuroscience</i> , 2021 , 24, 176-185	25.5	19
25	Translation of upstream open reading frames in a model of neuronal differentiation. <i>BMC Genomics</i> , 2019 , 20, 391	4.5	16
24	Copy number variation prevalence in known asthma genes and their impact on asthma susceptibility. <i>Clinical and Experimental Allergy</i> , 2013 , 43, 455-62	4.1	16
23	CodonShuffle: a tool for generating and analyzing synonymously mutated sequences. <i>Virus Evolution</i> , 2015 , 1, vev012	3.7	15
22	RNA ligation precedes the retrotransposition of U6/LINE-1 chimeric RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 20612-20622	11.5	14
21	A recurrence-based approach for validating structural variation using long-read sequencing technology. <i>GigaScience</i> , 2017 , 6, 1-9	7.6	13
20	Expectations and blind spots for structural variation detection from long-read assemblies and short-read genome sequencing technologies. <i>American Journal of Human Genetics</i> , 2021 , 108, 919-928	11	13
19	Eukaryotic gene prediction using GeneMark.hmm. <i>Current Protocols in Bioinformatics</i> , 2003 , Chapter 4, Unit4.6	24.2	11
18	Cas9 targeted enrichment of mobile elements using nanopore sequencing. <i>Nature Communications</i> , 2021 , 12, 3586	17.4	10
17	Prognostic model for multiple myeloma progression integrating gene expression and clinical features. <i>GigaScience</i> , 2019 , 8,	7.6	9
16	Machine learning reveals bilateral distribution of somatic L1 insertions in human neurons and glia. <i>Nature Neuroscience</i> , 2021 , 24, 186-196	25.5	9
15	Copy number variation genotyping using family information. <i>BMC Bioinformatics</i> , 2013 , 14, 157	3.6	6
14	Constitutively Higher Level of GSTT2 in Esophageal Tissues From African Americans Protects Cells Against DNA Damage. <i>Gastroenterology</i> , 2019 , 156, 1404-1415	13.3	5
13	Genome diversity in Ukraine. <i>GigaScience</i> , 2021 , 10,	7.6	5

12	Does germ-line deletion of the PIP gene constitute a widespread risk for cancer?. <i>European Journal of Human Genetics</i> , 2014 , 22, 307-9	5.3	4
11	Association of CNVs with methylation variation. <i>Npj Genomic Medicine</i> , 2020 , 5, 41	6.2	4
10	Expectations and blind spots for structural variation detection from short-read alignment and long-read assembly		3
9	De novo assembly of 64 haplotype-resolved human genomes of diverse ancestry and integrated analysis of structural variation		3
8	Comprehensive identification of somatic nucleotide variants in human brain tissue. <i>Genome Biology</i> , 2021 , 22, 92	18.3	3
7	Early HPV ctDNA Kinetics and Imaging Biomarkers Predict Therapeutic Response in p16+ Oropharyngeal Squamous Cell Carcinoma. <i>Clinical Cancer Research</i> , 2021 ,	12.9	2
6	SearchHPV: A novel approach to identify and assemble human papillomavirus-host genomic integration events in cancer. <i>Cancer</i> , 2021 , 127, 3531-3540	6.4	2
5	Characterization of nuclear mitochondrial insertions in the whole genomes of primates. <i>NAR Genomics and Bioinformatics</i> , 2020 , 2, lqaa089	3.7	1
4	SquiggleNet: real-time, direct classification of nanopore signals. <i>Genome Biology</i> , 2021 , 22, 298	18.3	1
3	Real-Time, Direct Classification of Nanopore Signals with SquiggleNet		1
2	Somatic mosaicism reveals clonal distributions of neocortical development.. <i>Nature</i> , 2022 ,	50.4	1
1	BAMnostic: an OS-agnostic toolkit for genomic sequence analysis. <i>Journal of Open Source Software</i> , 2018 , 3, 826	5.2	