

# Keiran M Raine

## List of Publications by Citations

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

67  
papers

32,553  
citations

51  
h-index

73  
g-index

73  
ext. papers

39,181  
ext. citations

29.1  
avg, IF

5.63  
L-index

#	Paper	IF	Citations
67	Signatures of mutational processes in human cancer. <i>Nature</i> , <b>2013</b> , 500, 415-21	50.4	5895
66	Intratumor heterogeneity and branched evolution revealed by multiregion sequencing. <i>New England Journal of Medicine</i> , <b>2012</b> , 366, 883-892	59.2	5559
65	Patterns of somatic mutation in human cancer genomes. <i>Nature</i> , <b>2007</b> , 446, 153-8	50.4	2400
64	Genomic Classification and Prognosis in Acute Myeloid Leukemia. <i>New England Journal of Medicine</i> , <b>2016</b> , 374, 2209-2221	59.2	1999
63	Mutational processes molding the genomes of 21 breast cancers. <i>Cell</i> , <b>2012</b> , 149, 979-93	56.2	1279
62	The landscape of cancer genes and mutational processes in breast cancer. <i>Nature</i> , <b>2012</b> , 486, 400-4	50.4	1264
61	Whole-genome sequencing identifies recurrent mutations in chronic lymphocytic leukaemia. <i>Nature</i> , <b>2011</b> , 475, 101-5	50.4	1206
60	Landscape of somatic mutations in 560 breast cancer whole-genome sequences. <i>Nature</i> , <b>2016</b> , 534, 47-54	50.4	1193
59	Clinical and biological implications of driver mutations in myelodysplastic syndromes. <i>Blood</i> , <b>2013</b> , 122, 3616-27; quiz 3699	2.2	1169
58	The life history of 21 breast cancers. <i>Cell</i> , <b>2012</b> , 149, 994-1007	56.2	979
57	Exome sequencing identifies frequent mutation of the SWI/SNF complex gene PBRM1 in renal carcinoma. <i>Nature</i> , <b>2011</b> , 469, 539-42	50.4	943
56	Lung cancer: intragenic ERBB2 kinase mutations in tumours. <i>Nature</i> , <b>2004</b> , 431, 525-6	50.4	655
55	Universal Patterns of Selection in Cancer and Somatic Tissues. <i>Cell</i> , <b>2017</b> , 171, 1029-1041.e21	56.2	576
54	Subclonal diversification of primary breast cancer revealed by multiregion sequencing. <i>Nature Medicine</i> , <b>2015</b> , 21, 751-9	50.5	521
53	HRDetect is a predictor of BRCA1 and BRCA2 deficiency based on mutational signatures. <i>Nature Medicine</i> , <b>2017</b> , 23, 517-525	50.5	444
52	Somatic mutations of the protein kinase gene family in human lung cancer. <i>Cancer Research</i> , <b>2005</b> , 65, 7591-5	10.1	392
51	Prediction of acute myeloid leukaemia risk in healthy individuals. <i>Nature</i> , <b>2018</b> , 559, 400-404	50.4	368

50	Genomic Evolution of Breast Cancer Metastasis and Relapse. <i>Cancer Cell</i> , <b>2017</b> , 32, 169-184.e7	24.3	346
49	A hypermutation phenotype and somatic MSH6 mutations in recurrent human malignant gliomas after alkylator chemotherapy. <i>Cancer Research</i> , <b>2006</b> , 66, 3987-91	10.1	328
48	Mutation analysis of 24 known cancer genes in the NCI-60 cell line set. <i>Molecular Cancer Therapeutics</i> , <b>2006</b> , 5, 2606-12	6.1	322
47	Analysis of the genetic phylogeny of multifocal prostate cancer identifies multiple independent clonal expansions in neoplastic and morphologically normal prostate tissue. <i>Nature Genetics</i> , <b>2015</b> , 47, 367-372	36.3	292
46	A screen of the complete protein kinase gene family identifies diverse patterns of somatic mutations in human breast cancer. <i>Nature Genetics</i> , <b>2005</b> , 37, 590-2	36.3	289
45	Genome sequencing and analysis of the Tasmanian devil and its transmissible cancer. <i>Cell</i> , <b>2012</b> , 148, 780-91	56.2	251
44	Mobile DNA in cancer. Extensive transduction of nonrepetitive DNA mediated by L1 retrotransposition in cancer genomes. <i>Science</i> , <b>2014</b> , 345, 1251343	33.3	250
43	DNA deaminases induce break-associated mutation showers with implication of APOBEC3B and 3A in breast cancer kataegis. <i>ELife</i> , <b>2013</b> , 2, e00534	8.9	246
42	RAG-mediated recombination is the predominant driver of oncogenic rearrangement in ETV6-RUNX1 acute lymphoblastic leukemia. <i>Nature Genetics</i> , <b>2014</b> , 46, 116-25	36.3	244
41	Timing the Landmark Events in the Evolution of Clear Cell Renal Cell Cancer: TRACERx Renal. <i>Cell</i> , <b>2018</b> , 173, 611-623.e17	56.2	228
40	A comprehensive assessment of somatic mutation detection in cancer using whole-genome sequencing. <i>Nature Communications</i> , <b>2015</b> , 6, 10001	17.4	199
39	Mutations in UPF3B, a member of the nonsense-mediated mRNA decay complex, cause syndromic and nonsyndromic mental retardation. <i>Nature Genetics</i> , <b>2007</b> , 39, 1127-33	36.3	189
38	Whole exome sequencing of adenoid cystic carcinoma. <i>Journal of Clinical Investigation</i> , <b>2013</b> , 123, 2965-8	5.9	188
37	Characterizing Mutational Signatures in Human Cancer Cell Lines Reveals Episodic APOBEC Mutagenesis. <i>Cell</i> , <b>2019</b> , 176, 1282-1294.e20	56.2	165
36	Mutations in CUL4B, which encodes a ubiquitin E3 ligase subunit, cause an X-linked mental retardation syndrome associated with aggressive outbursts, seizures, relative macrocephaly, central obesity, hypogonadism, pes cavus, and tremor. <i>American Journal of Human Genetics</i> , <b>2007</b> , 80, 345-52	11	163
35	Mutational signatures of ionizing radiation in second malignancies. <i>Nature Communications</i> , <b>2016</b> , 7, 12605	17.4	152
34	Frequent mutation of the major cartilage collagen gene COL2A1 in chondrosarcoma. <i>Nature Genetics</i> , <b>2013</b> , 45, 923-6	36.3	138
33	Single-cell paired-end genome sequencing reveals structural variation per cell cycle. <i>Nucleic Acids Research</i> , <b>2013</b> , 41, 6119-38	20.1	125

32	C. elegans whole-genome sequencing reveals mutational signatures related to carcinogens and DNA repair deficiency. <i>Genome Research</i> , <b>2014</b> , 24, 1624-36	9.7	125
31	Pan-cancer analysis of whole genomes identifies driver rearrangements promoted by LINE-1 retrotransposition. <i>Nature Genetics</i> , <b>2020</b> , 52, 306-319	36.3	122
30	Mutations in ZDHHC9, which encodes a palmitoyltransferase of NRAS and HRAS, cause X-linked mental retardation associated with a Marfanoid habitus. <i>American Journal of Human Genetics</i> , <b>2007</b> , 80, 982-7	11	120
29	Sequencing of prostate cancers identifies new cancer genes, routes of progression and drug targets. <i>Nature Genetics</i> , <b>2018</b> , 50, 682-692	36.3	112
28	cgpCaVEManWrapper: Simple Execution of CaVEMan in Order to Detect Somatic Single Nucleotide Variants in NGS Data. <i>Current Protocols in Bioinformatics</i> , <b>2016</b> , 56, 15.10.1-15.10.18	24.2	107
27	Mutations in the gene encoding the Sigma 2 subunit of the adaptor protein 1 complex, AP1S2, cause X-linked mental retardation. <i>American Journal of Human Genetics</i> , <b>2006</b> , 79, 1119-24	11	92
26	Analysis of the genomic landscape of multiple myeloma highlights novel prognostic markers and disease subgroups. <i>Leukemia</i> , <b>2018</b> , 32, 2604-2616	10.7	90
25	Sequence analysis of the protein kinase gene family in human testicular germ-cell tumors of adolescents and adults. <i>Genes Chromosomes and Cancer</i> , <b>2006</b> , 45, 42-6	5	88
24	cgpPindel: Identifying Somatic Acquired Insertion and Deletion Events from Paired End Sequencing. <i>Current Protocols in Bioinformatics</i> , <b>2015</b> , 52, 15.7.1-15.7.12	24.2	74
23	Tandem duplication of chromosomal segments is common in ovarian and breast cancer genomes. <i>Journal of Pathology</i> , <b>2012</b> , 227, 446-55	9.4	72
22	Processed pseudogenes acquired somatically during cancer development. <i>Nature Communications</i> , <b>2014</b> , 5, 3644	17.4	68
21	Extensive heterogeneity in somatic mutation and selection in the human bladder. <i>Science</i> , <b>2020</b> , 370, 75-82	33.3	67
20	Mutations in the BRWD3 gene cause X-linked mental retardation associated with macrocephaly. <i>American Journal of Human Genetics</i> , <b>2007</b> , 81, 367-74	11	66
19	ascatNgs: Identifying Somatic Acquired Copy-Number Alterations from Whole-Genome Sequencing Data. <i>Current Protocols in Bioinformatics</i> , <b>2016</b> , 56, 15.9.1-15.9.17	24.2	60
18	A somatic-mutational process recurrently duplicates germline susceptibility loci and tissue-specific super-enhancers in breast cancers. <i>Nature Genetics</i> , <b>2017</b> , 49, 341-348	36.3	54
17	The genetic heterogeneity and mutational burden of engineered melanomas in zebrafish models. <i>Genome Biology</i> , <b>2013</b> , 14, R113	18.3	33
16	Aging as accelerated accumulation of somatic variants: whole-genome sequencing of centenarian and middle-aged monozygotic twin pairs. <i>Twin Research and Human Genetics</i> , <b>2013</b> , 16, 1026-32	2.2	30
15	Direct Transcriptional Consequences of Somatic Mutation in Breast Cancer. <i>Cell Reports</i> , <b>2016</b> , 16, 2032-46.6	30	30

14	Appraising the relevance of DNA copy number loss and gain in prostate cancer using whole genome DNA sequence data. <i>PLoS Genetics</i> , <b>2017</b> , 13, e1007001	6	20
13	Large-Scale Uniform Analysis of Cancer Whole Genomes in Multiple Computing Environments		14
12	Convergent somatic mutations in metabolism genes in chronic liver disease. <i>Nature</i> , <b>2021</b> , 598, 473-478	50.4	10
11	Pan-cancer analysis of whole genomes reveals driver rearrangements promoted by LINE-1 retrotransposition in human tumours		10
10	Retrospective evaluation of whole exome and genome mutation calls in 746 cancer samples. <i>Nature Communications</i> , <b>2020</b> , 11, 4748	17.4	10
9	Butler enables rapid cloud-based analysis of thousands of human genomes. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 288-292	44.5	9
8	Split-Read Indel and Structural Variant Calling Using PINDEL. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1833, 95-105	1.4	8
7	The Life History of 21 Breast Cancers. <i>Cell</i> , <b>2015</b> , 162, 924	56.2	7
6	Universal patterns of selection in cancer and somatic tissues		7
5	Aberrant integration of Hepatitis B virus DNA promotes major restructuring of human hepatocellular carcinoma genome architecture. <i>Nature Communications</i> , <b>2021</b> , 12, 6910	17.4	6
4	Framework for quality assessment of whole genome, cancer sequences		6
3	Polygenic in vivo validation of cancer mutations using transposons. <i>Genome Biology</i> , <b>2014</b> , 15, 455	18.3	3
2	Author response: DNA deaminases induce break-associated mutation showers with implication of APOBEC3B and 3A in breast cancer kataegis <b>2013</b> ,		2
1	Framework for quality assessment of whole genome cancer sequences. <i>Nature Communications</i> , <b>2020</b> , 11, 5040	17.4	1