

Michael Wigler

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9286388/michael-wigler-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.

107
papers

38,452
citations

69
h-index

112
g-index

112
ext. papers

41,765
ext. citations

24
avg, IF

6.32
L-index

#	Paper	IF	Citations
107	PTEN, a putative protein tyrosine phosphatase gene mutated in human brain, breast, and prostate cancer. <i>Science</i> , 1997 , 275, 1943-7	33.3	4006
106	Strong association of de novo copy number mutations with autism. <i>Science</i> , 2007 , 316, 445-9	33.3	2126
105	Large-scale copy number polymorphism in the human genome. <i>Science</i> , 2004 , 305, 525-8	33.3	2016
104	Tumour evolution inferred by single-cell sequencing. <i>Nature</i> , 2011 , 472, 90-4	50.4	1834
103	Circular binary segmentation for the analysis of array-based DNA copy number data. <i>Biostatistics</i> , 2004 , 5, 557-72	3.7	1615
102	Transformation of mammalian cells with genes from procaryotes and eucaryotes. <i>Cell</i> , 1979 , 16, 777-85	56.2	1478
101	The contribution of de novo coding mutations to autism spectrum disorder. <i>Nature</i> , 2014 , 515, 216-21	50.4	1470
100	Transfer of purified herpes virus thymidine kinase gene to cultured mouse cells. <i>Cell</i> , 1977 , 11, 223-32	56.2	1399
99	Biochemical transfer of single-copy eucaryotic genes using total cellular DNA as donor. <i>Cell</i> , 1978 , 14, 725-31	56.2	1259
98	In yeast, RAS proteins are controlling elements of adenylate cyclase. <i>Cell</i> , 1985 , 40, 27-36	56.2	1113
97	De novo gene disruptions in children on the autistic spectrum. <i>Neuron</i> , 2012 , 74, 285-99	13.9	1052
96	The lipid phosphatase activity of PTEN is critical for its tumor supressor function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 13513-8	11.5	1001
95	Identification and validation of oncogenes in liver cancer using an integrative oncogenomic approach. <i>Cell</i> , 2006 , 125, 1253-67	56.2	903
94	The NF1 locus encodes a protein functionally related to mammalian GAP and yeast IRA proteins. <i>Cell</i> , 1990 , 63, 851-9	56.2	727
93	P-TEN, the tumor suppressor from human chromosome 10q23, is a dual-specificity phosphatase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 9052-7	11.5	670
92	Activation of the T24 bladder carcinoma transforming gene is linked to a single amino acid change. <i>Nature</i> , 1982 , 300, 762-5	50.4	656
91	Three different genes in <i>S. cerevisiae</i> encode the catalytic subunits of the cAMP-dependent protein kinase. <i>Cell</i> , 1987 , 50, 277-87	56.2	650

90	Linkage, association, and gene-expression analyses identify CNTNAP2 as an autism-susceptibility gene. <i>American Journal of Human Genetics</i> , 2008 , 82, 150-9	11	623
89	Rare de novo and transmitted copy-number variation in autistic spectrum disorders. <i>Neuron</i> , 2011 , 70, 886-97	13.9	526
88	Rare de novo variants associated with autism implicate a large functional network of genes involved in formation and function of synapses. <i>Neuron</i> , 2011 , 70, 898-907	13.9	509
87	Structure and activation of the human N-ras gene. <i>Cell</i> , 1983 , 34, 581-6	56.2	494
86	The <i>S. cerevisiae</i> CDC25 gene product regulates the RAS/adenylate cyclase pathway. <i>Cell</i> , 1987 , 48, 789-90	56.2	488
85	Genetic and physical linkage of exogenous sequences in transformed cells. <i>Cell</i> , 1980 , 22, 309-17	56.2	484
84	Isolation and preliminary characterization of a human transforming gene from T24 bladder carcinoma cells. <i>Nature</i> , 1982 , 296, 404-9	50.4	447
83	DNA sequence and characterization of the <i>S. cerevisiae</i> gene encoding adenylate cyclase. <i>Cell</i> , 1985 , 43, 493-505	56.2	428
82	Human-tumor-derived cell lines contain common and different transforming genes. <i>Cell</i> , 1981 , 27, 467-76	56.2	428
81	Complex synthetic chemical libraries indexed with molecular tags. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993 , 90, 10922-6	11.5	418
80	Isolation and characterization of a new cellular oncogene encoding a protein with multiple potential transmembrane domains. <i>Cell</i> , 1986 , 45, 711-9	56.2	404
79	Structure of the Ki-ras gene of the human lung carcinoma cell line Calu-1. <i>Nature</i> , 1983 , 304, 497-500	50.4	379
78	Inferring tumor progression from genomic heterogeneity. <i>Genome Research</i> , 2010 , 20, 68-80	9.7	371
77	An oncogenomics-based in vivo RNAi screen identifies tumor suppressors in liver cancer. <i>Cell</i> , 2008 , 135, 852-64	56.2	366
76	Differential activation of yeast adenylate cyclase by wild-type and mutant RAS proteins. <i>Cell</i> , 1985 , 41, 763-9	56.2	362
75	ras proteins can induce meiosis in <i>Xenopus</i> oocytes. <i>Cell</i> , 1985 , 43, 615-21	56.2	344
74	Functional homology of mammalian and yeast RAS genes. <i>Cell</i> , 1985 , 40, 19-26	56.2	325
73	Representational oligonucleotide microarray analysis: a high-resolution method to detect genome copy number variation. <i>Genome Research</i> , 2003 , 13, 2291-305	9.7	317

72	Tumour promotor induces plasminogen activator. <i>Nature</i> , 1976 , 259, 232-3	50.4	305
71	Role of SWI/SNF in acute leukemia maintenance and enhancer-mediated Myc regulation. <i>Genes and Development</i> , 2013 , 27, 2648-62	12.6	300
70	cAMP-independent control of sporulation, glycogen metabolism, and heat shock resistance in <i>S. cerevisiae</i> . <i>Cell</i> , 1988 , 53, 555-66	56.2	270
69	Cooperative interaction of <i>S. pombe</i> proteins required for mating and morphogenesis. <i>Cell</i> , 1994 , 79, 131-41	56.2	269
68	The role of de novo mutations in the genetics of autism spectrum disorders. <i>Nature Reviews Genetics</i> , 2014 , 15, 133-41	30.1	261
67	Genome-wide copy number analysis of single cells. <i>Nature Protocols</i> , 2012 , 7, 1024-41	18.8	260
66	Novel patterns of genome rearrangement and their association with survival in breast cancer. <i>Genome Research</i> , 2006 , 16, 1465-79	9.7	256
65	RAM, a gene of yeast required for a functional modification of RAS proteins and for production of mating pheromone a-factor. <i>Cell</i> , 1986 , 47, 413-22	56.2	256
64	A unified genetic theory for sporadic and inherited autism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 12831-6	11.5	244
63	Dosage-dependent phenotypes in models of 16p11.2 lesions found in autism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 17076-81	11.5	209
62	Isolation of the chicken thymidine kinase gene by plasmid rescue. <i>Nature</i> , 1980 , 285, 207-10	50.4	209
61	PTEN controls tumor-induced angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 4622-7	11.5	205
60	A role for the Ral guanine nucleotide dissociation stimulator in mediating Ras-induced transformation. <i>Journal of Biological Chemistry</i> , 1996 , 271, 16439-42	5.4	203
59	Evidence for a functional link between profilin and CAP in the yeast <i>S. cerevisiae</i> . <i>Cell</i> , 1991 , 66, 497-505	56.2	194
58	Genomic amplification and oncogenic properties of the KCNK9 potassium channel gene. <i>Cancer Cell</i> , 2003 , 3, 297-302	24.3	193
57	High definition profiling of mammalian DNA methylation by array capture and single molecule bisulfite sequencing. <i>Genome Research</i> , 2009 , 19, 1593-605	9.7	183
56	DBC2, a candidate for a tumor suppressor gene involved in breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 13647-52	11.5	180
55	Signaling pathways in Ras-mediated tumorigenicity and metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 8773-8	11.5	166

54	Accurate de novo and transmitted indel detection in exome-capture data using microassembly. <i>Nature Methods</i> , 2014 , 11, 1033-6	21.6	157
53	Characteristics of an SV40-plasmid recombinant and its movement into and out of the genome of a murine cell. <i>Cell</i> , 1980 , 21, 127-39	56.2	155
52	Transformation of mammalian cells with an amplifiable dominant-acting gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1980 , 77, 3567-70	11.5	145
51	Functional identification of tumor-suppressor genes through an in vivo RNA interference screen in a mouse lymphoma model. <i>Cancer Cell</i> , 2009 , 16, 324-35	24.3	143
50	DLC1 is a chromosome 8p tumor suppressor whose loss promotes hepatocellular carcinoma. <i>Genes and Development</i> , 2008 , 22, 1439-44	12.6	141
49	Interactive analysis and assessment of single-cell copy-number variations. <i>Nature Methods</i> , 2015 , 12, 1058-60	21.6	133
48	Genomic architecture characterizes tumor progression paths and fate in breast cancer patients. <i>Science Translational Medicine</i> , 2010 , 2, 38ra47	17.5	122
47	Recurrent DNA copy number variation in the laboratory mouse. <i>Nature Genetics</i> , 2007 , 39, 1384-9	36.3	121
46	Rapid phenotypic and genomic change in response to therapeutic pressure in prostate cancer inferred by high content analysis of single circulating tumor cells. <i>PLoS ONE</i> , 2014 , 9, e101777	3.7	109
45	Comparative genomic analysis of tumors: detection of DNA losses and amplification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995 , 92, 151-5	11.5	106
44	A cluster of cooperating tumor-suppressor gene candidates in chromosomal deletions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8212-7	11.5	101
43	DNA methylation patterns in luminal breast cancers differ from non-luminal subtypes and can identify relapse risk independent of other clinical variables. <i>Molecular Oncology</i> , 2011 , 5, 77-92	7.9	97
42	Low load for disruptive mutations in autism genes and their biased transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E5600-7	11.5	96
41	The contribution of de novo and rare inherited copy number changes to congenital heart disease in an unselected sample of children with conotruncal defects or hypoplastic left heart disease. <i>Human Genetics</i> , 2014 , 133, 11-27	6.3	96
40	Optimizing sparse sequencing of single cells for highly multiplex copy number profiling. <i>Genome Research</i> , 2015 , 25, 714-24	9.7	88
39	Novel genomic alterations and clonal evolution in chronic lymphocytic leukemia revealed by representational oligonucleotide microarray analysis (ROMA). <i>Blood</i> , 2009 , 113, 1294-303	2.2	86
38	Indel variant analysis of short-read sequencing data with Scalpel. <i>Nature Protocols</i> , 2016 , 11, 2529-2548	18.8	67
37	Annotating large genomes with exact word matches. <i>Genome Research</i> , 2003 , 13, 2306-15	9.7	53

36	Representational difference analysis in detection of genetic lesions in cancer. <i>Methods in Enzymology</i> , 1995 , 254, 291-304	1.7	52
35	A versatile statistical analysis algorithm to detect genome copy number variation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 16292-7	11.5	50
34	Identification of alterations in DNA copy number in host stromal cells during tumor progression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 19848-53	11.5	45
33	Intraductal Transplantation Models of Human Pancreatic Ductal Adenocarcinoma Reveal Progressive Transition of Molecular Subtypes. <i>Cancer Discovery</i> , 2020 , 10, 1566-1589	24.4	39
32	Damaging de novo mutations diminish motor skills in children on the autism spectrum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E1859-E1866	11.5	33
31	Copy-number variants in patients with a strong family history of pancreatic cancer. <i>Cancer Biology and Therapy</i> , 2007 , 6, 1592-9	4.6	33
30	Application of ROMA (representational oligonucleotide microarray analysis) to patients with cytogenetic rearrangements. <i>Genetics in Medicine</i> , 2005 , 7, 111-8	8.1	28
29	PROBER: oligonucleotide FISH probe design software. <i>Bioinformatics</i> , 2006 , 22, 2437-8	7.2	26
28	Single-Chromosomal Gains Can Function as Metastasis Suppressors and Promoters in Colon Cancer. <i>Developmental Cell</i> , 2020 , 52, 413-428.e6	10.2	25
27	Mouse genomic representational oligonucleotide microarray analysis: detection of copy number variations in normal and tumor specimens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 11234-9	11.5	21
26	Distribution of short paired duplications in mammalian genomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10349-54	11.5	21
25	Rare de novo germline copy-number variation in testicular cancer. <i>American Journal of Human Genetics</i> , 2012 , 91, 379-83	11	20
24	Novel insights into breast cancer copy number genetic heterogeneity revealed by single-cell genome sequencing. <i>ELife</i> , 2020 , 9,	8.9	20
23	Utility of Single-Cell Genomics in Diagnostic Evaluation of Prostate Cancer. <i>Cancer Research</i> , 2018 , 78, 348-358	10.1	19
22	SMASH, a fragmentation and sequencing method for genomic copy number analysis. <i>Genome Research</i> , 2016 , 26, 844-51	9.7	16
21	Target inference from collections of genomic intervals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2271-8	11.5	9
20	The cancer stem cell: cell type or cell state?. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2013 , 83, 5-7	4.6	8
19	The adenyl cyclase-encoding gene from <i>Saccharomyces kluyveri</i> . <i>Gene</i> , 1991 , 102, 129-32	3.8	8

18	Early Detection of Cancer in Blood Using Single-Cell Analysis: A Proposal. <i>Trends in Molecular Medicine</i> , 2017 , 23, 594-603	11.5	7
17	Reducing system noise in copy number data using principal components of self-self hybridizations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E103-10	11.5	7
16	Broad applications of single-cell nucleic acid analysis in biomedical research. <i>Genome Medicine</i> , 2012 , 4, 79	14.4	7
15	Quantitative multigene FISH on breast carcinomas identifies der(1;16)(q10;p10) as an early event in luminal A tumors. <i>Genes Chromosomes and Cancer</i> , 2015 , 54, 235-48	5	6
14	Genetics. Wild by nature. <i>Science</i> , 2002 , 296, 1407-8	33.3	5
13	Measuring shared variants in cohorts of discordant siblings with applications to autism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7073-7076	11.5	4
12	A sense of life: computational and experimental investigations with models of biochemical and evolutionary processes. <i>OMICS A Journal of Integrative Biology</i> , 2003 , 7, 253-68	3.8	4
11	De novo indels within introns contribute to ASD incidence		3
10	Single chromosome gains can function as metastasis suppressors and metastasis promoters in colon cancer		3
9	Copolymerization of single-cell nucleic acids into balls of acrylamide gel. <i>Genome Research</i> , 2020 , 30, 49-61	9.7	3
8	Partial bisulfite conversion for unique template sequencing. <i>Nucleic Acids Research</i> , 2018 , 46, e10	20.1	3
7	Facilitated sequence counting and assembly by template mutagenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E4632-7	11.5	2
6	Validation of <i>S. pombe</i> sequence assembly by microarray hybridization. <i>Journal of Computational Biology</i> , 2006 , 13, 1-20	1.7	2
5	Accurate detection of de novo and transmitted INDELS within exome-capture data using micro-assembly		2
4	Integrated Computational Pipeline for Single-Cell Genomic Profiling. <i>JCO Clinical Cancer Informatics</i> , 2020 , 4, 464-471	5.2	1
3	Damaging Mutations are Associated with Diminished Motor Skills and IQ in Children on the Autism Spectrum		1
2	Rates of contributory de novo mutation in high and low-risk autism families. <i>Communications Biology</i> , 2021 , 4, 1026	6.7	1
1	The Last Ten Yards 2013 , 195-202		

