Michael R Speicher

List of Publications by Year
in descending order

189 papers	22,136 citations	17405 63 h-index	9311 143 g-index
196 all docs	196 docs citations	196 times ranked	27757 citing authors

#	Article	IF	Citations
1	Spatiotemporal Dynamics of Intratumoral Immune Cells Reveal the Immune Landscape in Human Cancer. Immunity, 2013, 39, 782-795.	6.6	2,983
2	Mutations inGNA11in Uveal Melanoma. New England Journal of Medicine, 2010, 363, 2191-2199.	13.9	1,312
3	Karyotyping human chromosomes by combinatorial multi-fluor FISH. Nature Genetics, 1996, 12, 368-375.	9.4	1,243
4	Current and future perspectives ofÂliquid biopsies in genomics-driven oncology. Nature Reviews Genetics, 2019, 20, 71-88.	7.7	912
5	Integrative Analyses of Colorectal Cancer Show Immunoscore Is a Stronger Predictor of Patient Survival Than Microsatellite Instability. Immunity, 2016, 44, 698-711.	6.6	814
6	Three-Dimensional Maps of All Chromosomes in Human Male Fibroblast Nuclei and Prometaphase Rosettes. PLoS Biology, 2005, 3, e157.	2.6	683
7	Germline mutations in BAP1 predispose to melanocytic tumors. Nature Genetics, 2011, 43, 1018-1021.	9.4	662
8	Detection of complete and partial chromosome gains and losses by comparative genomic in situ hybridization. Human Genetics, 1993, 90, 590-610.	1.8	544
9	Complex Tumor Genomes Inferred from Single Circulating Tumor Cells by Array-CGH and Next-Generation Sequencing. Cancer Research, 2013, 73, 2965-2975.	0.4	497
10	A survey of tools for variant analysis of next-generation genome sequencing data. Briefings in Bioinformatics, 2014, 15, 256-278.	3.2	480
11	The biology of circulating tumor cells. Oncogene, 2016, 35, 1216-1224.	2.6	421
12	Comparative genomic hybridization, loss of heterozygosity, and DNA sequence analysis of single cells. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 4494-4499.	3.3	410
13	The new cytogenetics: blurring the boundaries with molecular biology. Nature Reviews Genetics, 2005, 6, 782-792.	7.7	395
14	Securin Is Required for Chromosomal Stability in Human Cells. Cell, 2001, 105, 445-457.	13.5	369
15	The tumor microenvironment and Immunoscore are critical determinants of dissemination to distant metastasis. Science Translational Medicine, 2016, 8, 327ra26.	5.8	360
16	Tumor-associated copy number changes in the circulation of patients with prostate cancer identified through whole-genome sequencing. Genome Medicine, 2013, 5, 30.	3.6	306
17	Inferring expressed genes by whole-genome sequencing of plasma DNA. Nature Genetics, 2016, 48, 1273-1278.	9.4	295
18	Quantitative analysis of comparative genomic hybridization. Cytometry, 1995, 19, 27-41.	1.8	286

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19	Defining â€˜chromosomal instabilityâ€™. Trends in Genetics, 2008, 24, 64-69.	2.9	268
20	Hematogenous dissemination of glioblastoma multiforme. Science Translational Medicine, 2014, 6, 247ra101.	5.8	264
21	Chromosomal translocations are associated with poor prognosis in chronic lymphocytic leukemia. Blood, 2006, 107, 742-751.	0.6	255
22	Inheritance of gene densityâ€“related higher order chromatin arrangements in normal and tumor cell nuclei. Journal of Cell Biology, 2003, 162, 809-820.	2.3	235
23	Three-dimensional reconstruction of painted human interphase chromosomes: active and inactive X chromosome territories have similar volumes but differ in shape and surface structure.. Journal of Cell Biology, 1996, 135, 1427-1440.	2.3	215
24	Digital karyotyping. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16156-16161.	3.3	215
25	Emerging concepts in liquid biopsies. BMC Medicine, 2017, 15, 75.	2.3	211
26	Humanized large-scale expanded endothelial colonyâ€“forming cells function in vitro and in vivo. Blood, 2009, 113, 6716-6725.	0.6	201
27	Conjunctival Melanomas Harbor BRAF and NRAS Mutations and Copy Number Changes Similar to Cutaneous and Mucosal Melanomas. Clinical Cancer Research, 2013, 19, 3143-3152.	3.2	187
28	Functional Network Pipeline Reveals Genetic Determinants Associated with in Situ Lymphocyte Proliferation and Survival of Cancer Patients. Science Translational Medicine, 2014, 6, 228ra37.	5.8	181
29	Comprehensive Study of the Clinical Phenotype of GermlineBAP1Variant-Carrying Families Worldwide. Journal of the National Cancer Institute, 2018, 110, 1328-1341.	3.0	164
30	Radial chromatin positioning is shaped by local gene density, not by gene expression. Chromosoma, 2007, 116, 285-306.	1.0	160
31	Heterogeneous proliferative potential of occult metastatic cells in bone marrow of patients with solid epithelial tumors. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2246-2251.	3.3	157
32	Changes in Colorectal Carcinoma Genomes under Anti-EGFR Therapy Identified by Whole-Genome Plasma DNA Sequencing. PLoS Genetics, 2014, 10, e1004271.	1.5	157
33	Establishment of tumorâ€specific copy number alterations from plasma DNA of patients with cancer. International Journal of Cancer, 2013, 133, 346-356.	2.3	155
34	Carcinogen-specific induction of genetic instability. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 5770-5775.	3.3	151
35	Cell-Free DNA and Apoptosis: How Dead Cells Inform About the Living. Trends in Molecular Medicine, 2020, 26, 519-528.	3.5	151
36	Inference of transcription factor binding from cell-free DNA enables tumor subtype prediction and early detection. Nature Communications, 2019, 10, 4666.	5.8	146

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37	Targeted inactivation of p53 in human cells does not result in aneuploidy. Cancer Research, 2002, 62, 1129-33.	0.4	144
38	Male and female mice derived from the same embryonic stem cell clone by tetraploid embryo complementation. Nature Biotechnology, 2002, 20, 455-459.	9.4	137
39	High resolution array-CGH analysis of single cells. Nucleic Acids Research, 2007, 35, e15-e15.	6.5	136
40	Whole-genome plasma sequencing reveals focal amplifications as a driving force in metastatic prostate cancer. Nature Communications, 2016, 7, 12008.	5.8	134
41	The potential of liquid biopsies for the early detection of cancer. Npj Precision Oncology, 2017, 1, 36.	2.3	126
42	Circulating tumor cells and DNA as liquid biopsies. Genome Medicine, 2013, 5, 73.	3.6	116
43	The dynamic range of circulating tumor DNA in metastatic breast cancer. Breast Cancer Research, 2014, 16, 421.	2.2	113
44	Persistence of DNA threads in human anaphase cells suggests late completion of sister chromatid decatenation. Chromosoma, 2008, 117, 123-135.	1.0	107
45	Multiplex-FISH for Pre- and Postnatal Diagnostic Applications. American Journal of Human Genetics, 1999, 65, 448-462.	2.6	105
46	An optimized, fully automated system for fast and accurate identification of chromosomal rearrangements by multiplex-FISH (M-FISH). Cytogenetic and Genome Research, 1998, 82, 160-171.	0.6	104
47	Targeted massively parallel sequencing of angiosarcomas reveals frequent activation of the mitogen activated protein kinase pathway. Oncotarget, 2015, 6, 36041-36052.	0.8	103
48	Genomic Profiling of Viable and Proliferative Micrometastatic Cells from Early-Stage Breast Cancer Patients. Clinical Cancer Research, 2004, 10, 3457-3464.	3.2	102
49	Multicenter Evaluation of Circulating Cell-Free DNA Extraction and Downstream Analyses for the Development of Standardized (Pre)analytical Work Flows. Clinical Chemistry, 2020, 66, 149-160.	1.5	100
50	Chromosomal bar codes produced by multicolor fluorescence in situ hybridization with multiple YAC clones and whole chromosome painting probes. Human Molecular Genetics, 1993, 2, 505-512.	1.4	99
51	Toward an Improved Definition of the Tumor Spectrum Associated With BAP1 Germline Mutations. Journal of Clinical Oncology, 2012, 30, e337-e340.	0.8	99
52	p53 deletion impairs clearance of chromosomal-instable stem cells in aging telomere-dysfunctional mice. Nature Genetics, 2009, 41, 1138-1143.	9.4	96
53	Tumor signatures in the blood. Nature Biotechnology, 2014, 32, 441-443.	9.4	96
54	Rapid Identification of Plasma DNA Samples with Increased ctDNA Levels by a Modified FAST-SeqS Approach. Clinical Chemistry, 2015, 61, 838-849.	1.5	94

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55	Complete karyotype characterization of the K562 cell line by combined application of G-banding, multiplex-fluorescence in situ hybridization, fluorescence in situ hybridization, and comparative genomic hybridization. Leukemia Research, 2001, 25, 313-322.	0.4	87
56	Germline mutations in the DNA damage response genesBRCA1,BRCA2,BARD1andTP53in patients with therapy related myeloid neoplasms. Journal of Medical Genetics, 2012, 49, 422-428.	1.5	87
57	An Optimized Probe Set for the Detection of Small Interchromosomal Aberrations by Use of 24-Color FISH. American Journal of Human Genetics, 2000, 66, 1684-1688.	2.6	78
58	Characterization of circulating breast cancer cells with tumorigenic and metastatic capacity. EMBO Molecular Medicine, 2020, 12, e11908.	3.3	77
59	Disruption of Trp53 in Livers of Mice Induces Formation of Carcinomas With Bilineal Differentiation. Gastroenterology, 2012, 142, 1229-1239.e3.	0.6	74
60	Subtelomeric chromosome rearrangements are detected using an innovative 12-color FISH assay (M-TEL). Nature Medicine, 2001, 7, 497-501.	15.2	72
61	Classification accuracy in multiple color fluorescence imaging microscopy. Cytometry, 2000, 41, 139-147.	1.8	71
62	Analysis of Gene Expression Patterns and Chromosomal Changes Associated with Aging. Cancer Research, 2004, 64, 8550-8557.	0.4	71
63	Identification of small gains and losses in single cells after whole genome amplification on tiling oligo arrays. Nucleic Acids Research, 2009, 37, e105-e105.	6.5	65
64	Telomerase abrogates aneuploidyâ€induced telomere replication stress, senescence and cell depletion. EMBO Journal, 2015, 34, 1371-1384.	3.5	65
65	A missense mutation in the PISA domain of HsSAS-6 causes autosomal recessive primary microcephaly in a large consanguineous Pakistani family. Human Molecular Genetics, 2014, 23, 5940-5949.	1.4	63
66	Nonâ€invasive detection of genomeâ€wide somatic copy number alterations by liquid biopsies. Molecular Oncology, 2016, 10, 494-502.	2.1	63
67	Loss of adipose triglyceride lipase is associated with human cancer and induces mouse pulmonary neoplasia. Oncotarget, 2016, 7, 33832-33840.	0.8	63
68	High-resolution genomic profiling of occult micrometastatic tumor cells. Genes Chromosomes and Cancer, 2003, 36, 159-166.	1.5	60
69	Single-cell isolation from cell suspensions and whole genome amplification from single cells to provide templates for CGH analysis. Nature Protocols, 2007, 2, 3173-3184.	5.5	60
70	Behaviour of human heterochromatic regions during the synapsis of homologous chromosomes. Human Reproduction, 2006, 21, 1490-1497.	0.4	59
71	Alterations of the Cell-Cycle Inhibitors p27KIP1 and p16INK4a Are Frequent in Blastic Plasmacytoid Dendritic Cell Neoplasms. Journal of Investigative Dermatology, 2010, 130, 1152-1157.	0.3	59
72	Classifying by colors: FISH-based genome analysis. Cytogenetic and Genome Research, 2001, 93, 1-10.	0.6	58

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73	Towards many colors in FISH on 3D-preserved interphase nuclei. Cytogenetic and Genome Research, 2006, 114, 367-378.	0.6	58
74	Puma and p21 represent cooperating checkpoints limiting self-renewal and chromosomal instability of somatic stem cells in response to telomere dysfunction. Nature Cell Biology, 2012, 14, 73-79.	4.6	56
75	Crossover frequency and synaptonemal complex length: their variability and effects on human male meiosis. Molecular Human Reproduction, 2006, 12, 123-133.	1.3	55
76	Retroviral insertional mutagenesis identifies RUNX genes involved in chronic myeloid leukemia disease persistence under imatinib treatment. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4594-4599.	3.3	55
77	Familial Mental Retardation Syndrome ATR-16 Due to an Inherited Cryptic Subtelomeric Translocation, t(3;16)(q29;p13.3). American Journal of Human Genetics, 2000, 66, 16-25.	2.6	54
78	Germline variants in the SEMA4A gene predispose to familial colorectal cancer type X. Nature Communications, 2014, 5, 5191.	5.8	51
79	Technical Evaluation of Commercial Mutation Analysis Platforms and Reference Materials for Liquid Biopsy Profiling. Cancers, 2020, 12, 1588.	1.7	50
80	Highâ€resolution analyses of copy number changes in disseminated tumor cells of patients with breast cancer. International Journal of Cancer, 2012, 131, E405-15.	2.3	48
81	Securin Is Not Required for Chromosomal Stability in Human Cells. PLoS Biology, 2005, 3, e416.	2.6	47
82	Evolution of genomic instability in diethylnitrosamine-induced hepatocarcinogenesis in mice. Hepatology, 2011, 53, 895-904.	3.6	47
83	Patient monitoring through liquid biopsies using circulating tumor DNA. International Journal of Cancer, 2017, 141, 887-896.	2.3	46
84	The coloring of cytogenetics. Nature Medicine, 1996, 2, 1046-1048.	15.2	45
85	Single tube liquid biopsy for advanced nonâ€small cell lung cancer. International Journal of Cancer, 2019, 144, 3127-3137.	2.3	45
86	Heterogeneity of mutational mechanisms and modes of inheritance in auriculocondylar syndrome. Journal of Medical Genetics, 2013, 50, 174-186.	1.5	44
87	Generation of Chromosome Painting Probes from Single Chromosomes by Laser Microdissection and Linker-Adaptor PCR. Chromosome Research, 2004, 12, 337-343.	1.0	43
88	A clinicianâ€™s handbook for using ctDNA throughout the patient journey. Molecular Cancer, 2022, 21, 81.	7.9	43
89	Multiplex-fluorescence in situ hybridization for chromosome karyotyping. Nature Protocols, 2006, 1, 1172-1184.	5.5	42
90	Co-occurrence of MYC amplification and TP53 mutations in human cancer. Nature Genetics, 2016, 48, 104-106.	9.4	42

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91	Analysis of Chromosomal Alterations in Non-Small Cell Lung Cancer by Multiplex-FISH, Comparative Genomic Hybridization, and Multicolor Bar Coding. Laboratory Investigation, 2000, 80, 1031-1041.	1.7	41
92	PTEN action in leukaemia dictated by the tissue microenvironment. Nature, 2014, 510, 402-406.	13.7	40
93	New concepts to improve resolution and sensitivity of molecular cytogenetic diagnostics by multicolor fluorescence in situ hybridization. Cytometry, 2001, 44, 7-15.	1.8	39
94	Predictive diagnosis of the cancer prone Li-Fraumeni syndrome by accident: new challenges through whole genome array testing. Journal of Medical Genetics, 2009, 46, 341-344.	1.5	37
95	Genomic alterations in plasma DNA from patients with metastasized prostate cancer receiving abiraterone or enzalutamide. International Journal of Cancer, 2018, 143, 1236-1248.	2.3	37
96	Partial trisomy of chromosome 22 resulting from an interstitial duplication of 22q11.2 in a child with typical cat eye syndrome. Journal of Medical Genetics, 2003, 40, 62e-62.	1.5	35
97	Multicolor chromosome painting in diagnostic and research applications. Chromosome Research, 2004, 12, 15-23.	1.0	34
98	AcroM fluorescent in situ hybridization analyses of marker chromosomes. Human Genetics, 2001, 109, 152-158.	1.8	33
99	Dynamic Changes of Circulating Tumor DNA Predict Clinical Outcome in Patients With Advanced Nonâ€“Small-Cell Lung Cancer Treated With Immune Checkpoint Inhibitors. JCO Precision Oncology, 2021, 5, 1540-1553.	1.5	33
100	Disruption of the methyltransferase-like 23 gene METTL23 causes mild autosomal recessive intellectual disability. Human Molecular Genetics, 2014, 23, 4015-4023.	1.4	32
101	A strategy for the characterization of minute chromosome rearrangements using multiple color fluorescence in situ hybridization with chromosome-specific DNA libraries and YAC clones. Human Genetics, 1993, 92, 527-532.	1.8	31
102	Karyotyping mouse chromosomes by multiplex-FISH (M-FISH). Chromosome Research, 2001, 9, 211-214.	1.0	31
103	A Cell-Based Screening Strategy That Predicts Mutations in Oncogenic Tyrosine Kinases: Implications for Clinical Resistance in Targeted Cancer Treatment. Cell Cycle, 2005, 4, 400-406.	1.3	31
104	Computer image analysis of combinatorial multiâ€fluor FISH. Bioimaging, 1996, 4, 52-64.	1.8	30
105	Novel subtype of mucopolysaccharidosis caused by arylsulfatase K (ARSK) deficiency. Journal of Medical Genetics, 2022, 59, 957-964.	1.5	29
106	A new strategy for the detection of subtelomeric rearrangements. Human Genetics, 2001, 109, 576-583.	1.8	28
107	Effect of genome-wide association studies, direct-to-consumer genetic testing, and high-speed sequencing technologies on predictive genetic counselling for cancer risk. Lancet Oncology, The, 2010, 11, 890-898.	5.1	28
108	A complete set of repeat-depleted, PCR-amplifiable, human chromosome-specific painting probes. Cytogenetic and Genome Research, 1999, 84, 233-240.	0.6	27

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109	Order of genetic events is critical determinant of aberrations in chromosome count and structure. Genes Chromosomes and Cancer, 2004, 40, 298-306.	1.5	27
110	Preexisting TP53 mutation in therapy-related acute myeloid leukemia. Annals of Hematology, 2015, 94, 527-529.	0.8	27
111	One size does not fit all: Size-based plasma DNA diagnostics. Science Translational Medicine, 2018, 10, .	5.8	27
112	Comparison of three commercial decision support platforms for matching of next-generation sequencing results with therapies in patients with cancer. ESMO Open, 2020, 5, e000872.	2.0	26
113	Sequential application of interphase-FISH and CGH to single cells. Laboratory Investigation, 2005, 85, 582-592.	1.7	25
114	Cell-free DNA analysis reveals POLR1D-mediated resistance to bevacizumab in colorectal cancer. Genome Medicine, 2020, 12, 20.	3.6	25
115	Keratin 18-deficiency results in steatohepatitis and liver tumors in old mice: A model of steatohepatitis-associated liver carcinogenesis. Oncotarget, 2016, 7, 73309-73322.	0.8	25
116	Live cell catapulting and recultivation does not change the karyotype of HCT116 tumor cells. Cancer Genetics and Cytogenetics, 2005, 161, 174-177.	1.0	24
117	Detection and Characterization of Circulating Tumor Cells in Patients with Merkel Cell Carcinoma. Clinical Chemistry, 2019, 65, 462-472.	1.5	24
118	Detection of a germline mutation and somatic homozygous loss of the von Hippel-Lindau tumor-suppressor gene in a family with a de novo mutation. Human Genetics, 1996, 97, 770-776.	1.8	23
119	Monosomy 1p36 ??? a recently delineated, clinically recognizable syndrome. Clinical Dysmorphology, 2002, 11, 43-48.	0.1	23
120	Digital Karyotyping Reveals Frequent Inactivation of the dystrophin/DMD Gene in Malignant Melanoma. Cell Cycle, 2007, 6, 189-198.	1.3	23
121	mFast-SeqS as a Monitoring and Pre-screening Tool for Tumor-Specific Aneuploidy in Plasma DNA. Advances in Experimental Medicine and Biology, 2016, 924, 147-155.	0.8	23
122	Assignment<footref rid="foot01">¹</footref> of the gene encoding mannan-binding lectin-associated serine protease 2 (MASP2) to human chromosome 1p36.3â†'p36.2 by in situ hybridization and somatic cell hybrid analysis. Cytogenetic and Genome Research, 1999, 84, 148-149.	0.6	22
123	Induction of chromosomal aberrations by dacarbazine in somatic and germinal cells of mice. Mutagenesis, 2002, 17, 383-389.	1.0	21
124	Two Novel Mutations in the GDAP1 and PRX Genes in Early Onset Charcot-Marie-Tooth Syndrome. Neuropediatrics, 2008, 39, 33-38.	0.3	21
125	Different staining substances were used in decorative and therapeutic tattoos in a 1000-year-old Peruvian mummy. Journal of Archaeological Science, 2010, 37, 3256-3262.	1.2	20
126	Spongious Hypertrophic Cardiomyopathy in Patients With Mutations in the Four-and-a-Half LIM Domain 1 Gene. Circulation: Cardiovascular Genetics, 2012, 5, 490-502.	5.1	20

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127	Single-cell analysis: toward the clinic. Genome Medicine, 2013, 5, 74.	3.6	20
128	A Multicolor FISH Assay Does Not Detect DUP25 in Control Individuals or in Reported Positive Control Cells. American Journal of Human Genetics, 2003, 72, 1349-1352.	2.6	19
129	Highâ€resolution analysis of alterations in medullary thyroid carcinoma genomes. International Journal of Cancer, 2012, 131, E66-73.	2.3	19
130	Seven-fluorochrome mouse M-FISH for high-resolution analysis of interchromosomal rearrangements. Cytogenetic and Genome Research, 2003, 103, 84-88.	0.6	18
131	Rapid identification of homologous recombinants and determination of gene copy number with reference/query pyrosequencing (RQPS). Genome Research, 2009, 19, 2081-2089.	2.4	18
132	Pheochromocytoma in a 2.75â€yearâ€oldâ€girl with a germline von Hippelâ€“Lindau mutation Q164R. American Journal of Medical Genetics, Part A, 2010, 152A, 1752-1755.	0.7	18
133	Heritable translocations induced by dermal exposure of male mice to acrylamide. Cytogenetic and Genome Research, 2004, 104, 271-276.	0.6	17
134	Delineation of a 2q deletion in a girl with dysmorphic features and epilepsy. American Journal of Medical Genetics, Part A, 2006, 140A, 764-768.	0.7	17
135	Impact of Array Comparative Genomic Hybridizationâ€“Derived Information on Genetic Counseling Demonstrated by Prenatal Diagnosis of the TAR (Thrombocytopenia-Absent-Radius) Syndromeâ€“Associated Microdeletion 1q21.1. American Journal of Human Genetics, 2007, 81, 866-868.	2.6	17
136	Multiplex genetic cancer testing identifies pathogenic mutations in TP53 and CDH1in a patient with bilateral breast and endometrial adenocarcinoma. BMC Medical Genetics, 2013, 14, 129.	2.1	17
137	Tetrasomy 21pter->q21.2 in a male infant without typical Down's syndrome dysmorphic features but moderate mental retardation. Journal of Medical Genetics, 2004, 41, 26e-26.	1.5	15
138	Micro-array analyses decipher exceptional complex familial chromosomal rearrangement. Human Genetics, 2006, 119, 145-153.	1.8	15
139	Single-Stranded DNA Library Preparation Does Not Preferentially Enrich Circulating Tumor DNA. Clinical Chemistry, 2017, 63, 1656-1659.	1.5	15
140	Complete and pure trisomy 18p due to a complex chromosomal rearrangement in a male adult with mild intellectual disability. American Journal of Medical Genetics, Part A, 2013, 161, 1806-1812.	0.7	14
141	Clinicopathologic and molecular features in cutaneous extranodal natural killerâ€/T-cell lymphoma, nasal type, with aggressive and indolent course. Journal of the American Academy of Dermatology, 2014, 70, 716-723.	0.6	14
142	Additional dark G-band in the p-arm of chromosome 19 due to a paracentric inversion with a breakpoint in the pericentromeric heterochromatin. American Journal of Medical Genetics Part A, 2001, 103, 160-162.	2.4	13
143	Multicolor Deconvolution Microscopy of Thick Biological Specimens. American Journal of Pathology, 2003, 162, 373-379.	1.9	13
144	On-treatment measurements of circulating tumor DNA during FOLFOX therapy in patients with colorectal cancer. Npj Precision Oncology, 2020, 4, 30.	2.3	13

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145	Shallow Whole-Genome Sequencing from Plasma Identifies FGFR1 Amplified Breast Cancers and Predicts Overall Survival. Cancers, 2020, 12, 1481.	1.7	13
146	Evolutionary conservation in noncoding genomic regions. Trends in Genetics, 2021, 37, 903-918.	2.9	13
147	Single circulating tumor cell sequencing for monitoring. Oncotarget, 2013, 4, 812-813.	0.8	13
148	Characterization of all human male synaptonemal complexes by subtelomere multiplex-FISH. Cytogenetic and Genome Research, 2004, 107, 18-21.	0.6	12
149	Comprehensive Screening for Lynch Syndrome: Who Can Be the Driving Force in Daily Clinical Practice?. Journal of Clinical Oncology, 2009, 27, 2292-2292.	0.8	12
150	Assignment<footref rid="foot01">¹</footref> of CD163B, the gene encoding M160, a novel scavenger receptor, to human chromosome 12p13.3 by in situ hybridization and somatic cell hybrid analysis. Cytogenetic and Genome Research, 2000, 90, 246-247.	0.6	11
151	Novel phenotypes observed in patients with ETV6-linked leukaemia/familial thrombocytopenia syndrome and a biallelic ARID5B risk allele as leukaemogenic cofactor. Journal of Medical Genetics, 2020, 57, 427-433.	1.5	11
152	Biallelic BUB1 mutations cause microcephaly, developmental delay, and variable effects on cohesion and chromosome segregation. Science Advances, 2022, 8, eabk0114.	4.7	11
153	Characterization of two marker chromosomes in a patient with acute nonlymphocytic leukemia by two-color fluorescence in situ hybridization. Cancer Genetics and Cytogenetics, 1993, 70, 99-102.	1.0	10
154	Facilitating haplotype analysis by fully automated analysis of all chromosomes in human-mouse hybrid cell lines. Cytogenetic and Genome Research, 2001, 93, 11-15.	0.6	10
155	A familial unbalanced subtelomeric translocation resulting in monosomy 6q27->qter. Journal of Medical Genetics, 2003, 40, 48e-48.	1.5	10
156	9p21 Deletion in Primary Cutaneous Large B-Cell Lymphoma, Leg Type, May Escape Detection by Standard FISH Assays. Journal of Investigative Dermatology, 2009, 129, 238-240.	0.3	10
157	Further evidence for the pathogenicity of 15q24 microduplications distal to the minimal critical regions. American Journal of Medical Genetics, Part A, 2010, 152A, 3173-3178.	0.7	10
158	A higher <scp>ctDNA</scp> fraction decreases survival in regorafenibâ€treated metastatic colorectal cancer patients. Results from the regorafenib's liquid biopsy translational biomarker phase <scp>II</scp> pilot study. International Journal of Cancer, 2021, 148, 1452-1461.	2.3	10
159	Biallelic truncating variants in ATP9A cause a novel neurodevelopmental disorder involving postnatal microcephaly and failure to thrive. Journal of Medical Genetics, 2022, 59, 662-668.	1.5	9
160	Risk estimates for carriers of chromosome reciprocal translocation t(4;9)(p15.2;p13). Clinical Genetics, 2000, 58, 153-155.	1.0	8
161	Mapping of balanced chromosome translocation breakpoints to the basepair level from microdissected chromosomes. Journal of Cellular and Molecular Medicine, 2010, 14, 2078-2084.	1.6	8
162	Mosaicism for a dup(12)(q22q13) in a patient with hypomelanosis of Ito and asymmetry. Journal of Medical Genetics, 2000, 37, 804-807.	1.5	7

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163	Multicolor FISH in two and three dimensions for clastogenic analyses. Mutagenesis, 2002, 17, 523-527.	1.0	7
164			

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181	BI-25 * CIRCULATING TUMOR CELLS IN GLIOBLASTOMA. Neuro-Oncology, 2014, 16, v28-v29.	0.6	0
182	Liquid Biopsies. Medizinische Genetik, 2016, 28, 245-250.	0.1	0
183	PrÃnataldiagnostik. Medizinische Genetik, 2019, 31, 263-265.	0.1	0
184	New Developments in Multicolour Fluorescence in situ Hybridization. , 2004, , 187-196.		0
185	Occurrence of Chromosomal Translocations as Independent Prognostic Factor in Chronic Lymphocytic Leukemia.. Blood, 2006, 108, 2084-2084.	0.6	0
186	Making Functional Endothelial Progenitors: Humanized Large-Scale Animal Serum-Free Propagated Adult Blood-Derived Endothelial Colony-Forming Cells Assemble Stable Perfused Vessels in Vivo.. Blood, 2008, 112, 1882-1882.	0.6	0
187	Chromosome Analysis by Multiplex-FISH (M-FISH). , 1999, , 439-455.		0
188	Reconstruction of Mitochondrial Genotypes from Diverse next Generation Sequencing Datasets. , 2017, , .		0
189	Characterisation and treatment of patients with castration-resistant metastatic prostate cancer (mCRPC) developing neuroendocrine clonal divergence (NCD): A case series.. Journal of Clinical Oncology, 2017, 35, e16520-e16520.	0.8	0