Michael R Speicher

List of Publications by Citations

190 papers	17,025 citations	59 h-index	129 g-index
196 ext. papers	20,013 ext. citations	10.1 avg, IF	6.47 L-index

#	Paper	IF	Citations
190	Spatiotemporal dynamics of intratumoral immune cells reveal the immune landscape in human cancer. *Immunity*, **2013**, 39, 782-95	32.3	1595
189	Karyotyping human chromosomes by combinatorial multi-fluor FISH. *Nature Genetics*, **1996**, 12, 368-75	36.3	1089
188	Mutations in GNA11 in uveal melanoma. *New England Journal of Medicine*, **2010**, 363, 2191-9	59.2	1069
187	Integrative Analyses of Colorectal Cancer Show Immunoscore Is a Stronger Predictor of Patient Survival Than Microsatellite Instability. *Immunity*, **2016**, 44, 698-711	32.3	602
186	Three-dimensional maps of all chromosomes in human male fibroblast nuclei and prometaphase rosettes. *PLoS Biology*, **2005**, 3, e157	9.7	577
185	Germline mutations in BAP1 predispose to melanocytic tumors. *Nature Genetics*, **2011**, 43, 1018-21	36.3	562
184	Detection of complete and partial chromosome gains and losses by comparative genomic in situ hybridization. *Human Genetics*, **1993**, 90, 590-610	6.3	501
183	Current and future perspectives of liquid biopsies in genomics-driven oncology. *Nature Reviews Genetics*, **2019**, 20, 71-88	30.1	485
182	Complex tumor genomes inferred from single circulating tumor cells by array-CGH and next-generation sequencing. *Cancer Research*, **2013**, 73, 2965-75	10.1	442
181	A survey of tools for variant analysis of next-generation genome sequencing data. *Briefings in Bioinformatics*, **2014**, 15, 256-78	13.4	394
180	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, 4494-9	11.5	371
179	Securin is required for chromosomal stability in human cells. *Cell*, **2001**, 105, 445-57	56.2	335
178	The new cytogenetics: blurring the boundaries with molecular biology. *Nature Reviews Genetics*, **2005**, 6, 782-92	30.1	329
177	The biology of circulating tumor cells. *Oncogene*, **2016**, 35, 1216-24	9.2	295
176	The tumor microenvironment and Immunoscore are critical determinants of dissemination to distant metastasis. *Science Translational Medicine*, **2016**, 8, 327ra26	17.5	291
175	Quantitative analysis of comparative genomic hybridization. *Cytometry*, **1995**, 19, 27-41		264
174	Tumor-associated copy number changes in the circulation of patients with prostate cancer identified through whole-genome sequencing. *Genome Medicine*, **2013**, 5, 30	14.4	246

173	Chromosomal translocations are associated with poor prognosis in chronic lymphocytic leukemia. *Blood*, **2006**, 107, 742-51	2.2	230
172	Defining @hromosomal instabilityQ*Trends in Genetics*, **2008**, 24, 64-9	8.5	225
171	Inheritance of gene density-related higher order chromatin arrangements in normal and tumor cell nuclei. *Journal of Cell Biology*, **2003**, 162, 809-20	7.3	212
170	Hematogenous dissemination of glioblastoma multiforme. *Science Translational Medicine*, **2014**, 6, 247ra101	17.3	193
169	Digital karyotyping. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 16156-61	11.5	191
168	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, 1427-40	7.3	185
167	Humanized large-scale expanded endothelial colony-forming cells function in vitro and in vivo. *Blood*, **2009**, 113, 6716-25	2.2	179
166	Inferring expressed genes by whole-genome sequencing of plasma DNA. *Nature Genetics*, **2016**, 48, 1273-8	38.3	171
165	Emerging concepts in liquid biopsies. *BMC Medicine*, **2017**, 15, 75	11.4	157
164	Conjunctival melanomas harbor BRAF and NRAS mutations and copy number changes similar to cutaneous and mucosal melanomas. *Clinical Cancer Research*, **2013**, 19, 3143-52	12.9	150
163	Radial chromatin positioning is shaped by local gene density, not by gene expression. *Chromosoma*, **2007**, 116, 285-306	2.8	150
162	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, 2246-51	11.5	146
161	Functional network pipeline reveals genetic determinants associated with in situ lymphocyte proliferation and survival of cancer patients. *Science Translational Medicine*, **2014**, 6, 228ra37	17.5	141
160	Carcinogen-specific induction of genetic instability. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 5770-5	11.5	140
159	Establishment of tumor-specific copy number alterations from plasma DNA of patients with cancer. *International Journal of Cancer*, **2013**, 133, 346-56	7.5	135
158	Changes in colorectal carcinoma genomes under anti-EGFR therapy identified by whole-genome plasma DNA sequencing. *PLoS Genetics*, **2014**, 10, e1004271	6	132
157	Targeted inactivation of p53 in human cells does not result in aneuploidy. *Cancer Research*, **2002**, 62, 1129-33	10.1	123
156	High resolution array-CGH analysis of single cells. *Nucleic Acids Research*, **2007**, 35, e15	20.1	120

155	Male and female mice derived from the same embryonic stem cell clone by tetraploid embryo complementation. *Nature Biotechnology*, **2002**, 20, 455-9	44.5	110
154	Circulating tumor cells and DNA as liquid biopsies. *Genome Medicine*, **2013**, 5, 73	14.4	99
153	Genomic profiling of viable and proliferative micrometastatic cells from early-stage breast cancer patients. *Clinical Cancer Research*, **2004**, 10, 3457-64	12.9	99
152	Whole-genome plasma sequencing reveals focal amplifications as a driving force in metastatic prostate cancer. *Nature Communications*, **2016**, 7, 12008	17.4	98
151	Comprehensive Study of the Clinical Phenotype of Germline BAP1 Variant-Carrying Families Worldwide. *Journal of the National Cancer Institute*, **2018**, 110, 1328-1341	9.7	97
150	Persistence of DNA threads in human anaphase cells suggests late completion of sister chromatid decatenation. *Chromosoma*, **2008**, 117, 123-35	2.8	95
149	Multiplex-FISH for pre- and postnatal diagnostic applications. *American Journal of Human Genetics*, **1999**, 65, 448-62	11	94
148	The dynamic range of circulating tumor DNA in metastatic breast cancer. *Breast Cancer Research*, **2014**, 16, 421	8.3	93
147	p53 deletion impairs clearance of chromosomal-instable stem cells in aging telomere-dysfunctional mice. *Nature Genetics*, **2009**, 41, 1138-43	36.3	89
146	Chromosomal bar codes produced by multicolor fluorescence in situ hybridization with multiple YAC clones and whole chromosome painting probes. *Human Molecular Genetics*, **1993**, 2, 505-12	5.6	87
145	Toward an improved definition of the tumor spectrum associated with BAP1 germline mutations. *Journal of Clinical Oncology*, **2012**, 30, e337-40	2.2	86
144	The potential of liquid biopsies for the early detection of cancer. *Npj Precision Oncology*, **2017**, 1, 36	9.8	82
143	Tumor signatures in the blood. *Nature Biotechnology*, **2014**, 32, 441-3	44.5	82
142	An optimized, fully automated system for fast and accurate identification of chromosomal rearrangements by multiplex-FISH (M-FISH). *Cytogenetic and Genome Research*, **1998**, 82, 160-71	1.9	82
141	BI-25 * CIRCULATING TUMOR CELLS IN GLIOBLASTOMA. *Neuro-Oncology*, **2014**, 16, v28-v29	1	78
140	Rapid Identification of Plasma DNA Samples with Increased ctDNA Levels by a Modified FAST-SeqS Approach. *Clinical Chemistry*, **2015**, 61, 838-49	5.5	76
139	Germline mutations in the DNA damage response genes BRCA1, BRCA2, BARD1 and TP53 in patients with therapy related myeloid neoplasms. *Journal of Medical Genetics*, **2012**, 49, 422-8	5.8	72
138	Targeted massively parallel sequencing of angiosarcomas reveals frequent activation of the mitogen activated protein kinase pathway. *Oncotarget*, **2015**, 6, 36041-52	3.3	71

137	An optimized probe set for the detection of small interchromosomal aberrations by use of 24-color FISH. *American Journal of Human Genetics*, **2000**, 66, 1684-8	11	71
136	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, 313-22	2.7	68
135	Analysis of gene expression patterns and chromosomal changes associated with aging. *Cancer Research*, **2004**, 64, 8550-7	10.1	66
134	Disruption of Trp53 in livers of mice induces formation of carcinomas with bilineal differentiation. *Gastroenterology*, **2012**, 142, 1229-1239.e3	13.3	63
133	Subtelomeric chromosome rearrangements are detected using an innovative 12-color FISH assay (M-TEL). *Nature Medicine*, **2001**, 7, 497-501	50.5	63
132	Identification of small gains and losses in single cells after whole genome amplification on tiling oligo arrays. *Nucleic Acids Research*, **2009**, 37, e105	20.1	59
131	Single-cell isolation from cell suspensions and whole genome amplification from single cells to provide templates for CGH analysis. *Nature Protocols*, **2007**, 2, 3173-84	18.8	56
130	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, 5940-9	5.6	55
129	High-resolution genomic profiling of occult micrometastatic tumor cells. *Genes Chromosomes and Cancer*, **2003**, 36, 159-66	5	55
128	Non-invasive detection of genome-wide somatic copy number alterations by liquid biopsies. *Molecular Oncology*, **2016**, 10, 494-502	7.9	54
127	Inference of transcription factor binding from cell-free DNA enables tumor subtype prediction and early detection. *Nature Communications*, **2019**, 10, 4666	17.4	54
126	Cell-Free DNA and Apoptosis: How Dead Cells Inform About the Living. *Trends in Molecular Medicine* , **2020**, 26, 519-528	11.5	54
125	Behaviour of human heterochromatic regions during the synapsis of homologous chromosomes. *Human Reproduction*, **2006**, 21, 1490-7	5.7	53
124	Towards many colors in FISH on 3D-preserved interphase nuclei. *Cytogenetic and Genome Research*, **2006**, 114, 367-78	1.9	52
123	Alterations of the cell-cycle inhibitors p27(KIP1) and p16(INK4a) are frequent in blastic plasmacytoid dendritic cell neoplasms. *Journal of Investigative Dermatology*, **2010**, 130, 1152-7	4.3	51
122	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, 4594-9	11.5	51
121	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	5.5	51
120	Telomerase abrogates aneuploidy-induced telomere replication stress, senescence and cell depletion. *EMBO Journal*, **2015**, 34, 1371-84	13	50

119	Crossover frequency and synaptonemal complex length: their variability and effects on human male meiosis. *Molecular Human Reproduction*, **2006**, 12, 123-33	4.4	50
118	Germline variants in the SEMA4A gene predispose to familial colorectal cancer type X. *Nature Communications*, **2014**, 5, 5191	17.4	47
117	Puma and p21 represent cooperating checkpoints limiting self-renewal and chromosomal instability of somatic stem cells in response to telomere dysfunction. *Nature Cell Biology*, **2011**, 14, 73-9	23.4	46
116	High-resolution analyses of copy number changes in disseminated tumor cells of patients with breast cancer. *International Journal of Cancer*, **2012**, 131, E405-15	7.5	46
115	Classifying by colors: FISH-based genome analysis. *Cytogenetic and Genome Research*, **2001**, 93, 1-10	1.9	46
114	Securin is not required for chromosomal stability in human cells. *PLoS Biology*, **2005**, 3, e416	9.7	45
113	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	11	44
112	Evolution of genomic instability in diethylnitrosamine-induced hepatocarcinogenesis in mice. *Hepatology*, **2011**, 53, 895-904	11.2	41
111	Classification accuracy in multiple color fluorescence imaging microscopy. *Cytometry*, **2000**, 41, 139-147		41
110	Loss of adipose triglyceride lipase is associated with human cancer and induces mouse pulmonary neoplasia. *Oncotarget*, **2016**, 7, 33832-40	3.3	41
109	Generation of chromosome painting probes from single chromosomes by laser microdissection and linker-adaptor PCR. *Chromosome Research*, **2004**, 12, 337-43	4.4	39
108	The coloring of cytogenetics. *Nature Medicine*, **1996**, 2, 1046-8	50.5	39
107	PTEN action in leukaemia dictated by the tissue microenvironment. *Nature*, **2014**, 510, 402-6	50.4	37
106	Analysis of chromosomal alterations in non-small cell lung cancer by multiplex-FISH, comparative genomic hybridization, and multicolor bar coding. *Laboratory Investigation*, **2000**, 80, 1031-41	5.9	37
105	Patient monitoring through liquid biopsies using circulating tumor DNA. *International Journal of Cancer*, **2017**, 141, 887-896	7.5	35
104	Predictive diagnosis of the cancer prone Li-Fraumeni syndrome by accident: new challenges through whole genome array testing. *Journal of Medical Genetics*, **2009**, 46, 341-4	5.8	35
103	Characterization of circulating breast cancer cells with tumorigenic and metastatic capacity. *EMBO Molecular Medicine*, **2020**, 12, e11908	12	35
102	Single tube liquid biopsy for advanced non-small cell lung cancer. *International Journal of Cancer*, **2019**, 144, 3127-3137	7.5	35

101	Multiplex-fluorescence in situ hybridization for chromosome karyotyping. *Nature Protocols*, **2006**, 1, 1172-84	2.8	34
100	Genomic alterations in plasma DNA from patients with metastasized prostate cancer receiving abiraterone or enzalutamide. *International Journal of Cancer*, **2018**, 143, 1236-1248	7.5	33
99	Co-occurrence of MYC amplification and TP53 mutations in human cancer. *Nature Genetics*, **2016**, 48, 104-6	36.3	33
98	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, e62	5.8	33
97	Heterogeneity of mutational mechanisms and modes of inheritance in auriculocondylar syndrome. *Journal of Medical Genetics*, **2013**, 50, 174-86	5.8	32
96	New concepts to improve resolution and sensitivity of molecular cytogenetic diagnostics by multicolor fluorescence in situ hybridization. *Cytometry*, **2001**, 44, 7-15		32
95	A cell-based screening strategy that predicts mutations in oncogenic tyrosine kinases: implications for clinical resistance in targeted cancer treatment. *Cell Cycle*, **2005**, 4, 400-6	4.7	30
94	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, 527-32	6.3	28
93	Computer image analysis of combinatorial multi-fluor FISH. *Bioimaging*, **1996**, 4, 52-64		28
92	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, 890-8	21.7	27
91	Order of genetic events is critical determinant of aberrations in chromosome count and structure. *Genes Chromosomes and Cancer*, **2004**, 40, 298-306	5	27
90	A new strategy for the detection of subtelomeric rearrangements. *Human Genetics*, **2001**, 109, 576-83	6.3	27
89	AcroM fluorescent in situ hybridization analyses of marker chromosomes. *Human Genetics*, **2001**, 109, 152-8	6.3	26
88	Preexisting TP53 mutation in therapy-related acute myeloid leukemia. *Annals of Hematology*, **2015**, 94, 527-9	3	24
87	Sequential application of interphase-FISH and CGH to single cells. *Laboratory Investigation*, **2005**, 85, 582-92	5.9	24
86	Karyotyping mouse chromosomes by multiplex-FISH (M-FISH). *Chromosome Research*, **2001**, 9, 211-4	4.4	24
85	Disruption of the methyltransferase-like 23 gene METTL23 causes mild autosomal recessive intellectual disability. *Human Molecular Genetics*, **2014**, 23, 4015-23	5.6	23
84	Multicolor chromosome painting in diagnostic and research applications. *Chromosome Research*, **2004**, 12, 15-23	4.4	23

83	Live cell catapulting and recultivation does not change the karyotype of HCT116 tumor cells. *Cancer Genetics and Cytogenetics*, **2005**, 161, 174-7		23
82	A complete set of repeat-depleted, PCR-amplifiable, human chromosome-specific painting probes. *Cytogenetic and Genome Research*, **1999**, 84, 233-40	1.9	22
81	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. A combined genetic study, including cytogenetics, PCR/SSCP, FISH, and CGH. *Human Genetics*, **1996**, 97, 770-6	6.3	22
80	Technical Evaluation of Commercial Mutation Analysis Platforms and Reference Materials for Liquid Biopsy Profiling. *Cancers*, **2020**, 12,	6.6	21
79	Monosomy 1p36--a recently delineated, clinically recognizable syndrome. *Clinical Dysmorphology*, **2002**, 11, 43-8	0.9	21
78	High-resolution analysis of alterations in medullary thyroid carcinoma genomes. *International Journal of Cancer*, **2012**, 131, E66-73	7.5	19
77	Digital karyotyping reveals frequent inactivation of the dystrophin/DMD gene in malignant melanoma. *Cell Cycle*, **2007**, 6, 189-98	4.7	19
76	Single-cell analysis: toward the clinic. *Genome Medicine*, **2013**, 5, 74	14.4	18
75	Spongious hypertrophic cardiomyopathy in patients with mutations in the four-and-a-half LIM domain 1 gene. *Circulation: Cardiovascular Genetics*, **2012**, 5, 490-502		18
74	A multicolor FISH assay does not detect DUP25 in control individuals or in reported positive control cells. *American Journal of Human Genetics*, **2003**, 72, 1349-52	11	18
73	Seven-fluorochrome mouse M-FISH for high-resolution analysis of interchromosomal rearrangements. *Cytogenetic and Genome Research*, **2003**, 103, 84-8	1.9	18
72	Assignment of the gene encoding mannan-binding lectin-associated serine protease 2 (MASP2) to human chromosome 1p36.3-->p36.2 by in situ hybridization and somatic cell hybrid analysis. *Cytogenetic and Genome Research*, **1999**, 84, 148-9	1.9	18
71	Detection and Characterization of Circulating Tumor Cells in Patients with Merkel Cell Carcinoma. *Clinical Chemistry*, **2019**, 65, 462-472	5.5	18
70	Two novel mutations in the GDAP1 and PRX genes in early onset Charcot-Marie-Tooth syndrome. *Neuropediatrics*, **2008**, 39, 33-8	1.6	17
69	Keratin 18-deficiency results in steatohepatitis and liver tumors in old mice: A model of steatohepatitis-associated liver carcinogenesis. *Oncotarget*, **2016**, 7, 73309-73322	3.3	17
68	Cell-free DNA analysis reveals POLR1D-mediated resistance to bevacizumab in colorectal cancer. *Genome Medicine*, **2020**, 12, 20	14.4	16
67	Rapid identification of homologous recombinants and determination of gene copy number with reference/query pyrosequencing (RQPS). *Genome Research*, **2009**, 19, 2081-9	9.7	15
66	Impact of array comparative genomic hybridization-derived information on genetic counseling demonstrated by prenatal diagnosis of the TAR (thrombocytopenia-absent-radius) syndrome-associated microdeletion 1q21.1. *American Journal of Human Genetics*, **2007**, 81, 866-8	11	15

65	Micro-array analyses decipher exceptional complex familial chromosomal rearrangement. *Human Genetics*, **2006**, 119, 145-53	6.3	15
64	Heritable translocations induced by dermal exposure of male mice to acrylamide. *Cytogenetic and Genome Research*, **2004**, 104, 271-6	1.9	15
63	Induction of chromosomal aberrations by dacarbazine in somatic and germinal cells of mice. *Mutagenesis*, **2002**, 17, 383-9	2.8	15
62	One size does not fit all: Size-based plasma DNA diagnostics. *Science Translational Medicine*, **2018**, 10,	17.5	15
61	Multiplex genetic cancer testing identifies pathogenic mutations in TP53 and CDH1 in a patient with bilateral breast and endometrial adenocarcinoma. *BMC Medical Genetics*, **2013**, 14, 129	2.1	14
60	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	2.9	14
59	Delineation of a 2q deletion in a girl with dysmorphic features and epilepsy. *American Journal of Medical Genetics, Part A*, **2006**, 140, 764-8	2.5	14
58	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	3.6	13
57	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**, 161A, 1806-12	2.5	13
56	Pheochromocytoma in a 2.75-year-old-girl with a germline von Hippel-Lindau mutation Q164R. *American Journal of Medical Genetics, Part A*, **2010**, 152A, 1752-5	2.5	13
55	Tetrasomy 21pter-->q21.2 in a male infant without typical Down syndrome dysmorphic features but moderate mental retardation. *Journal of Medical Genetics*, **2004**, 41, e26	5.8	13
54	Comprehensive screening for Lynch syndrome: who can be the driving force in daily clinical practice?. *Journal of Clinical Oncology*, **2009**, 27, 2292	2.2	12
53	Multicolor deconvolution microscopy of thick biological specimens. *American Journal of Pathology*, **2003**, 162, 373-9	5.8	12
52	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, 160-2		12
51	Single-Stranded DNA Library Preparation Does Not Preferentially Enrich Circulating Tumor DNA. *Clinical Chemistry*, **2017**, 63, 1656-1659	5.5	11
50	Characterization of all human male synaptonemal complexes by subtelomere multiplex-FISH. *Cytogenetic and Genome Research*, **2004**, 107, 18-21	1.9	11
49	Clinicopathologic and molecular features in cutaneous extranodal natural killer-/T-cell lymphoma, nasal type, with aggressive and indolent course. *Journal of the American Academy of Dermatology*, **2014**, 70, 716-723	4.5	10
48	Assignment 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, 246-7	1.9	10

47	Further evidence for the pathogenicity of 15q24 microduplications distal to the minimal critical regions. *American Journal of Medical Genetics, Part A*, **2010**, 152A, 3173-8	2.5	9
46	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	6	9
45	Shallow Whole-Genome Sequencing from Plasma Identifies FGFR1 Amplified Breast Cancers and Predicts Overall Survival. *Cancers*, **2020**, 12,	6.6	8
44	Risk estimates for carriers of chromosome reciprocal translocation t(4;9)(p15.2;p13). *Clinical Genetics*, **2000**, 58, 153-5	4	8
43	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		8
42	9p21 deletion in primary cutaneous large B-cell lymphoma, leg type, may escape detection by standard FISH assays. *Journal of Investigative Dermatology*, **2009**, 129, 238-40	4.3	7
41	A familial unbalanced subtelomeric translocation resulting in monosomy 6q27-->qter. *Journal of Medical Genetics*, **2003**, 40, e48	5.8	7
40	Facilitating haplotype analysis by fully automated analysis of all chromosomes in human-mouse hybrid cell lines. *Cytogenetic and Genome Research*, **2001**, 93, 11-5	1.9	7
39	Multicolor FISH in two and three dimensions for clastogenic analyses. *Mutagenesis*, **2002**, 17, 523-7	2.8	7
38	A clinician handbook for using ctDNA throughout the patient journey.. *Molecular Cancer*, **2022**, 21, 81	42.1	6
37	Novel subtype of mucopolysaccharidosis caused by arylsulfatase K (ARSK) deficiency.. *Journal of Medical Genetics*, **2021**,	5.8	6
36	Mapping of balanced chromosome translocation breakpoints to the basepair level from microdissected chromosomes. *Journal of Cellular and Molecular Medicine*, **2010**, 14, 2078-84	5.6	5
35	First non-mosaic case of isopseudodicentric chromosome 18 (psu idic(18)(pter --> q22.1::q22.1 --> pter) is associated with multiple congenital anomalies reminiscent of trisomy 18 and 18q-syndrome **2004**, 127A, 58-64		5
34	Mosaicism for a dup(12)(q22q13) in a patient with hypomelanosis of Ito and asymmetry. *Journal of Medical Genetics*, **2000**, 37, 804-7	5.8	5
33	Delineation of translocation t(15; 17) in acute promyelocytic leukemia by chromosomal in situ suppression hybridization. *Leukemia Research*, **1993**, 17, 359-64	2.7	5
32	Novel phenotypes observed in patients with -linked leukaemia/familial thrombocytopenia syndrome and a biallelic risk allele as leukaemogenic cofactor. *Journal of Medical Genetics*, **2020**, 57, 427-433	5.8	5
31	On-treatment measurements of circulating tumor DNA during FOLFOX therapy in patients with colorectal cancer. *Npj Precision Oncology*, **2020**, 4, 30	9.8	4
30	cDNA cloning, chromosome assignment, and genomic structure of a human gene encoding a novel member of the RBM family. *Cytogenetic and Genome Research*, **2001**, 92, 225-30	1.9	4

29	A higher ctDNA fraction decreases survival in regorafenib-treated metastatic colorectal cancer patients. Results from the regorafenibQ liquid biopsy translational biomarker phase II pilot study. *International Journal of Cancer*, **2021**, 148, 1452-1461	7.5	4
28	Dynamic Changes of Circulating Tumor DNA Predict Clinical Outcome in Patients With Advanced Non-Small-Cell Lung Cancer Treated With Immune Checkpoint Inhibitors.. *JCO Precision Oncology*, **2021**, 5, 1540-1553	3.6	4
27	Digital Circulating Tumor Cell Analyses for Prostate Cancer Precision Oncology. *Cancer Discovery*, **2018**, 8, 269-271	24.4	3
26	Genome-Wide Analysis of the Nucleosome Landscape in Individuals with Coffin-Siris Syndrome. *Cytogenetic and Genome Research*, **2019**, 159, 1-11	1.9	3
25	Breakpoint within the nucleolus organizer region resulting in a reciprocal translocation t(4;14)(q21;p12) **2000**, 92, 264-268		3
24	Biallelic mutations cause microcephaly, developmental delay, and variable effects on cohesion and chromosome segregation.. *Science Advances*, **2022**, 8, eabk0114	14.3	3
23	Inferring expressed genes by whole-genome sequencing of plasma DNA		3
22	Inference of tumor cell-specific transcription factor binding from cell-free DNA enables tumor subtype prediction and early detection of cancer		3
21	Molecular cytogenetics and multiplex reverse-transcriptase polymerase chain reaction for risk stratification in acute myeloid leukemia. *Journal of Clinical Oncology*, **2013**, 31, 2360-1	2.2	2
20	Evolutionary conservation in noncoding genomic regions. *Trends in Genetics*, **2021**, 37, 903-918	8.5	2
19	Chromosomes **2010**, 55-138		1
18	From Genes to Genomics to Proteomics **2010**, 139-163		1
17	Computer image analysis of combinatorial multi-fluor FISH. *Bioimaging*, **1996**, 4, 52-64		1
16	Childhood-onset epileptic encephalopathy due to exon 1-4 tandem duplication. *Neurology: Genetics* , **2020**, 6, e494	3.8	1
15	Biallelic truncating variants in cause a novel neurodevelopmental disorder involving postnatal microcephaly and failure to thrive. *Journal of Medical Genetics*, **2021**,	5.8	1
14	Profiling of circulating tumor DNA and tumor tissue for treatment selection in patients with advanced and refractory carcinoma: a prospective, two-stage phase II Individualized Cancer Treatment trial. *Therapeutic Advances in Medical Oncology*, **2021**, 13, 1758835920987658	5.4	1
13	Monitoring chromosome rearrangements. *Advances in Experimental Medicine and Biology*, **2005**, 570, 19-41	3.6	1
12	Neueste technologische Entwicklungen f□die Analyse von zirkulierender Tumor-DNA. *Medizinische Genetik*, **2016**, 28, 234-244	0.5	

11	Liquid Biopsies. *Medizinische Genetik*, **2016**, 28, 245-250	0.5
10	Prädiktive und prognostische genetische Biomarker. *Wiener Klinische Wochenschrift Education*, **2010**, 5, 49-71	0.2
9	Modeling clonal expansion from M-FISH experiments. *Journal of Computational Biology*, **2008**, 15, 221-30	1.7
8	Chromosome Analysis by Multiplex-FISH (M-FISH) **2000**, 556-572	
7	New Developments in Multicolour Fluorescence in situ Hybridization **2004**, 187-196	
6	Occurrence of Chromosomal Translocations as Independent Prognostic Factor in Chronic Lymphocytic Leukemia.. *Blood*, **2006**, 108, 2084-2084	2.2
5	Chromosome Analysis by Multiplex-FISH (M-FISH) **1999**, 439-455	
4	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	2.2
3	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	2.2
2	Pränataldiagnostik. *Medizinische Genetik*, **2019**, 31, 263-265	0.5
1	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	6.3