

Matthias Schlesner

List of Publications by Year in Descending Order

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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.

116
papers

15,421
citations

36
h-index

124
g-index

133
ext. papers

22,116
ext. citations

12.7
avg, IF

6.32
L-index

#	Paper	IF	Citations
116	Germline Variants of and Predispose to Familial Colorectal Cancer.. <i>Cancers</i> , 2022 , 14,	6.6	3
115	The genomic and transcriptional landscape of primary central nervous system lymphoma.. <i>Nature Communications</i> , 2022 , 13, 2558	17.4	4
114	Whole exome sequencing identifies novel germline variants of SLC15A4 gene as potentially cancer predisposing in familial colorectal cancer.. <i>Molecular Genetics and Genomics</i> , 2022 , 1	3.1	
113	Early identification of disease progression in ALK-rearranged lung cancer using circulating tumor DNA analysis. <i>Npj Precision Oncology</i> , 2021 , 5, 100	9.8	2
112	Timed Ang2-Targeted Therapy Identifies the Angiopoietin-Tie Pathway as Key Regulator of Fatal Lymphogenous Metastasis. <i>Cancer Discovery</i> , 2021 , 11, 424-445	24.4	12
111	iTReX: Interactive exploration of mono- and combination therapy dose response profiling data. <i>Pharmacological Research</i> , 2021 , 175, 105996	10.2	2
110	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes. <i>Cell</i> , 2021 , 184, 2239-2254.e39	56.2	57
109	Hotspot DNMT3A mutations in clonal hematopoiesis and acute myeloid leukemia sensitize cells to azacytidine via viral mimicry response.. <i>Nature Cancer</i> , 2021 , 2, 527-544	15.4	10
108	Mutational mechanisms shaping the coding and noncoding genome of germinal center derived B-cell lymphomas. <i>Leukemia</i> , 2021 , 35, 2002-2016	10.7	3
107	Cell segmentation-free inference of cell types from in situ transcriptomics data. <i>Nature Communications</i> , 2021 , 12, 3545	17.4	14
106	TMOD-04. IMAGE-BASED DRUG RESPONSE PROFILING FROM PEDIATRIC TUMOR CELL SPHEROIDS USING PATIENT-BY-PATIENT DEEP TRANSFER LEARNING. <i>Neuro-Oncology</i> , 2021 , 23, i36-i36	1	
105	Combinations of Low-Frequency Genetic Variants Might Predispose to Familial Pancreatic Cancer. <i>Journal of Personalized Medicine</i> , 2021 , 11,	3.6	2
104	Aggressive PDACs Show Hypomethylation of Repetitive Elements and the Execution of an Intrinsic IFN Program Linked to a Ductal Cell of Origin. <i>Cancer Discovery</i> , 2021 , 11, 638-659	24.4	24
103	Analysis of mutational signatures with yet another package for signature analysis. <i>Genes Chromosomes and Cancer</i> , 2021 , 60, 314-331	5	12
102	cola: an R/Bioconductor package for consensus partitioning through a general framework. <i>Nucleic Acids Research</i> , 2021 , 49, e15	20.1	8
101	Tumor cell network integration in glioma represents a stemness feature. <i>Neuro-Oncology</i> , 2021 , 23, 757-769		7
100	Putative second hit rare genetic variants in families with seemingly GBA-associated Parkinson's disease. <i>Npj Genomic Medicine</i> , 2021 , 6, 2	6.2	1

99	Whole Exome Sequencing Identifies and Genes as Potentially Cancer Predisposing in Familial Colorectal Cancer. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
98	Characterization of rare germline variants in familial multiple myeloma. <i>Blood Cancer Journal</i> , 2021 , 11, 33	7	1
97	IFN γ secreted by breast cancer cells undergoing chemotherapy reprograms stromal fibroblasts to support tumour growth after treatment. <i>Molecular Oncology</i> , 2021 , 15, 1308-1329	7.9	4
96	Differentially methylated regions within lung cancer risk loci are enriched in deregulated enhancers. <i>Epigenetics</i> , 2021 , 1-16	5.7	1
95	Temporal multi-omics identifies LRG1 as a vascular niche instructor of metastasis. <i>Science Translational Medicine</i> , 2021 , 13, eabe6805	17.5	11
94	Molecular profiling of pediatric meningiomas shows tumor characteristics distinct from adult meningiomas. <i>Acta Neuropathologica</i> , 2021 , 142, 873-886	14.3	1
93	Identification of Transient Receptor Potential Channel 4-Associated Protein as a Novel Candidate Gene Causing Congenital Primary Hypothyroidism. <i>Hormone Research in Paediatrics</i> , 2020 , 93, 16-29	3.3	2
92	Dissecting intratumour heterogeneity of nodal B-cell lymphomas at the transcriptional, genetic and drug-response levels. <i>Nature Cell Biology</i> , 2020 , 22, 896-906	23.4	30
91	Harmonization and Standardization of Panel-Based Tumor Mutational Burden Measurement: Real-World Results and Recommendations of the Quality in Pathology Study. <i>Journal of Thoracic Oncology</i> , 2020 , 15, 1177-1189	8.9	45
90	NOTCH target gene HES5 mediates oncogenic and tumor suppressive functions in hepatocarcinogenesis. <i>Oncogene</i> , 2020 , 39, 3128-3144	9.2	13
89	Genomic footprints of activated telomere maintenance mechanisms in cancer. <i>Nature Communications</i> , 2020 , 11, 733	17.4	40
88	The evolutionary history of 2,658 cancers. <i>Nature</i> , 2020 , 578, 122-128	50.4	307
87	ShinyButchR: Interactive NMF-based decomposition workflow of genome-scale datasets. <i>Biology Methods and Protocols</i> , 2020 , 5, bpa022	2.4	2
86	Genome-Wide DNA Methylation Profiling in Early Stage I Lung Adenocarcinoma Reveals Predictive Aberrant Methylation in the Promoter Region of the Long Noncoding RNA PLUT: An Exploratory Study. <i>Journal of Thoracic Oncology</i> , 2020 , 15, 1338-1350	8.9	4
85	Genetic Interactions and Tissue Specificity Modulate the Association of Mutations with Drug Response. <i>Molecular Cancer Therapeutics</i> , 2020 , 19, 927-936	6.1	0
84	YAP1-fusions in pediatric NF2-wildtype meningioma. <i>Acta Neuropathologica</i> , 2020 , 139, 215-218	14.3	24
83	Framework for quality assessment of whole genome cancer sequences. <i>Nature Communications</i> , 2020 , 11, 5040	17.4	1
82	Longitudinal therapy monitoring of ALK-positive lung cancer by combined copy number and targeted mutation profiling of cell-free DNA. <i>EBioMedicine</i> , 2020 , 62, 103103	8.8	14

81	Globally altered epigenetic landscape and delayed osteogenic differentiation in H3.3-G34W-mutant giant cell tumor of bone. <i>Nature Communications</i> , 2020 , 11, 5414	17.4	13
80	Cryptic insertion of exons 2 and 3 into the immunoglobulin heavy chain locus detected by whole genome sequencing in a case of "-negative" Burkitt lymphoma. <i>Haematologica</i> , 2020 , 105, e202-e205	6.6	15
79	Distributed Ledger Technology in genomics: a call for Europe. <i>European Journal of Human Genetics</i> , 2020 , 28, 139-140	5.3	10
78	Pheno-seq - linking visual features and gene expression in 3D cell culture systems. <i>Scientific Reports</i> , 2019 , 9, 12367	4.9	10
77	Segregation and potential functional impact of a rare stop-gain PABPC4L variant in familial atypical Parkinsonism. <i>Scientific Reports</i> , 2019 , 9, 13576	4.9	1
76	Mutational patterns and regulatory networks in epigenetic subgroups of meningioma. <i>Acta Neuropathologica</i> , 2019 , 138, 295-308	14.3	27
75	Response to olaparib in a germline mutated prostate cancer and genetic events associated with resistance. <i>Journal of Physical Education and Sports Management</i> , 2019 , 5,	2.8	21
74	Evolutionary Trajectories of IDH Glioblastomas Reveal a Common Path of Early Tumorigenesis Instigated Years ahead of Initial Diagnosis. <i>Cancer Cell</i> , 2019 , 35, 692-704.e12	24.3	92
73	Defective homologous recombination DNA repair as therapeutic target in advanced chordoma. <i>Nature Communications</i> , 2019 , 10, 1635	17.4	33
72	Genomic and transcriptomic changes complement each other in the pathogenesis of sporadic Burkitt lymphoma. <i>Nature Communications</i> , 2019 , 10, 1459	17.4	49
71	Structure of the archaeal chemotaxis protein CheY in a domain-swapped dimeric conformation. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019 , 75, 576-585	1.1	7
70	Evaluation of Whole Genome Sequencing Data. <i>Methods in Molecular Biology</i> , 2019 , 1956, 321-336	1.4	2
69	Serial liquid biopsies for detection of treatment failure and profiling of resistance mechanisms in -rearranged lung cancer. <i>Journal of Physical Education and Sports Management</i> , 2019 , 5,	2.8	6
68	The mutational landscape of Burkitt-like lymphoma with 11q aberration is distinct from that of Burkitt lymphoma. <i>Blood</i> , 2019 , 133, 962-966	2.2	29
67	The landscape of genomic alterations across childhood cancers. <i>Nature</i> , 2018 , 555, 321-327	50.4	603
66	Cutis laxa, exocrine pancreatic insufficiency and altered cellular metabolomics as additional symptoms in a new patient with ATP6AP1-CDG. <i>Molecular Genetics and Metabolism</i> , 2018 , 123, 364-374	3.7	15
65	Integrative genomic and transcriptomic analysis of leiomyosarcoma. <i>Nature Communications</i> , 2018 , 9, 144	17.4	115
64	Response to "Unexpected mutations after CRISPR-Cas9 editing in vivo". <i>Nature Methods</i> , 2018 , 15, 239-246	2.0	22

63	Genomic features of renal cell carcinoma with venous tumor thrombus. <i>Scientific Reports</i> , 2018 , 8, 7477	4.9	9
62	Familial Cancer Variant Prioritization Pipeline version 2 (FCVPPv2) applied to a papillary thyroid cancer family. <i>Scientific Reports</i> , 2018 , 8, 11635	4.9	15
61	Identification of SLC20A1 and SLC15A4 among other genes as potential risk factors for combined pituitary hormone deficiency. <i>Genetics in Medicine</i> , 2018 , 20, 728-736	8.1	10
60	Whole genome sequencing puts forward hypotheses on metastasis evolution and therapy in colorectal cancer. <i>Nature Communications</i> , 2018 , 9, 4782	17.4	51
59	Molecular Evolution of Early-Onset Prostate Cancer Identifies Molecular Risk Markers and Clinical Trajectories. <i>Cancer Cell</i> , 2018 , 34, 996-1011.e8	24.3	89
58	IG- neoplasms with precursor B-cell phenotype are molecularly distinct from Burkitt lymphomas. <i>Blood</i> , 2018 , 132, 2280-2285	2.2	19
57	Fusions in Wild-Type Pancreatic Cancer. <i>Cancer Discovery</i> , 2018 , 8, 1087-1095	24.4	99
56	The transcriptomic and epigenetic map of vascular quiescence in the continuous lung endothelium. <i>ELife</i> , 2018 , 7,	8.9	25
55	Meningiomas induced by low-dose radiation carry structural variants of NF2 and a distinct mutational signature. <i>Acta Neuropathologica</i> , 2017 , 134, 155-158	14.3	19
54	Precision oncology based on omics data: The NCT Heidelberg experience. <i>International Journal of Cancer</i> , 2017 , 141, 877-886	7.5	82
53	Genetic subclone architecture of tumor clone-initiating cells in colorectal cancer. <i>Journal of Experimental Medicine</i> , 2017 , 214, 2073-2088	16.6	23
52	DDX3X mutations in two girls with a phenotype overlapping Toriello-Carey syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2017 , 173, 1369-1373	2.5	23
51	Patient-specific molecular alterations are associated with metastatic clear cell renal cell cancer progressing under tyrosine kinase inhibitor therapy. <i>Oncotarget</i> , 2017 , 8, 74049-74057	3.3	7
50	The whole-genome landscape of medulloblastoma subtypes. <i>Nature</i> , 2017 , 547, 311-317	50.4	472
49	Recurrent Somatic PDGFRB Mutations in Sporadic Infantile/Solitary Adult Myofibromas But Not in Angioleiomyomas and Myopericytomas. <i>American Journal of Surgical Pathology</i> , 2017 , 41, 195-203	6.7	60
48	Screening drug effects in patient-derived cancer cells links organoid responses to genome alterations. <i>Molecular Systems Biology</i> , 2017 , 13, 955	12.2	113
47	A novel homozygous ARL13B variant in patients with Joubert syndrome impairs its guanine nucleotide-exchange factor activity. <i>European Journal of Human Genetics</i> , 2017 , 25, 1324-1334	5.3	4
46	Impact of clinical exomes in neurodevelopmental and neurometabolic disorders. <i>Molecular Genetics and Metabolism</i> , 2017 , 121, 297-307	3.7	30

45	TALEN/CRISPR-mediated engineering of a promoterless anti-viral RNAi hairpin into an endogenous miRNA locus. <i>Nucleic Acids Research</i> , 2017 , 45, e3	20.1	6
44	RAS-pathway mutation patterns define epigenetic subclasses in juvenile myelomonocytic leukemia. <i>Nature Communications</i> , 2017 , 8, 2126	17.4	52
43	Identification of immunotherapeutic targets by genomic profiling of rectal NET metastases. <i>Oncot Immunology</i> , 2016 , 5, e1213931	7.2	8
42	MYC/MIZ1-dependent gene repression inversely coordinates the circadian clock with cell cycle and proliferation. <i>Nature Communications</i> , 2016 , 7, 11807	17.4	65
41	Pedigree based DNA sequencing pipeline for germline genomes of cancer families. <i>Hereditary Cancer in Clinical Practice</i> , 2016 , 14, 16	2.3	5
40	Spatial niche formation but not malignant progression is a driving force for intratumoural heterogeneity. <i>Nature Communications</i> , 2016 , 7, ncomms11845	17.4	29
39	Exome sequencing reveals a novel CWF19L1 mutation associated with intellectual disability and cerebellar atrophy. <i>American Journal of Medical Genetics, Part A</i> , 2016 , 170, 1502-9	2.5	8
38	gtrellis: an R/Bioconductor package for making genome-level Trellis graphics. <i>BMC Bioinformatics</i> , 2016 , 17, 169	3.6	10
37	Homozygous missense mutation in the LMAN2L gene segregates with intellectual disability in a large consanguineous Pakistani family. <i>Journal of Medical Genetics</i> , 2016 , 53, 138-44	5.8	10
36	CYP3A5 mediates basal and acquired therapy resistance in different subtypes of pancreatic ductal adenocarcinoma. <i>Nature Medicine</i> , 2016 , 22, 278-87	50.5	148
35	New Brain Tumor Entities Emerge from Molecular Classification of CNS-PNETs. <i>Cell</i> , 2016 , 164, 1060-1073	36.2	483
34	Immunohistochemical detection of inhibitor of DNA binding 3 mutational variants in mature aggressive B-cell lymphoma. <i>Haematologica</i> , 2016 , 101, e259-61	6.6	1
33	Environment-induced epigenetic reprogramming in genomic regulatory elements in smoking mothers and their children. <i>Molecular Systems Biology</i> , 2016 , 12, 861	12.2	71
32	B-cell-specific conditional expression of Myd88p.L252P leads to the development of diffuse large B-cell lymphoma in mice. <i>Blood</i> , 2016 , 127, 2732-41	2.2	78
31	Alterations of microRNA and microRNA-regulated messenger RNA expression in germinal center B-cell lymphomas determined by integrative sequencing analysis. <i>Haematologica</i> , 2016 , 101, 1380-1389	6.6	31
30	Complex heatmaps reveal patterns and correlations in multidimensional genomic data. <i>Bioinformatics</i> , 2016 , 32, 2847-9	7.2	2316
29	Next-generation personalised medicine for high-risk paediatric cancer patients - The INFORM pilot study. <i>European Journal of Cancer</i> , 2016 , 65, 91-101	7.5	186
28	Analysis of mutational signatures in exomes from B-cell lymphoma cell lines suggest APOBEC3 family members to be involved in the pathogenesis of primary effusion lymphoma. <i>Leukemia</i> , 2015 , 29, 1612-5	10.7	17

27	Hypermutation takes the driver's seat. <i>Genome Medicine</i> , 2015 , 7, 31	14.4	14
26	SIPA1L3 identified by linkage analysis and whole-exome sequencing as a novel gene for autosomal recessive congenital cataract. <i>European Journal of Human Genetics</i> , 2015 , 23, 1627-33	5.3	15
25	DNA methylome analysis in Burkitt and follicular lymphomas identifies differentially methylated regions linked to somatic mutation and transcriptional control. <i>Nature Genetics</i> , 2015 , 47, 1316-1325	36.3	101
24	The PCBP1 gene encoding poly(rC) binding protein I is recurrently mutated in Burkitt lymphoma. <i>Genes Chromosomes and Cancer</i> , 2015 , 54, 555-64	5	21
23	A comprehensive assessment of somatic mutation detection in cancer using whole-genome sequencing. <i>Nature Communications</i> , 2015 , 6, 10001	17.4	199
22	Mechismo: predicting the mechanistic impact of mutations and modifications on molecular interactions. <i>Nucleic Acids Research</i> , 2015 , 43, e10	20.1	57
21	Recurrent RHOA mutations in pediatric Burkitt lymphoma treated according to the NHL-BFM protocols. <i>Genes Chromosomes and Cancer</i> , 2014 , 53, 911-6	5	44
20	circIze Implements and enhances circular visualization in R. <i>Bioinformatics</i> , 2014 , 30, 2811-2	7.2	1242
19	A recurrent 11q aberration pattern characterizes a subset of MYC-negative high-grade B-cell lymphomas resembling Burkitt lymphoma. <i>Blood</i> , 2014 , 123, 1187-98	2.2	131
18	Recurrent somatic alterations of FGFR1 and NTRK2 in pilocytic astrocytoma. <i>Nature Genetics</i> , 2013 , 45, 927-32	36.3	550
17	Signatures of mutational processes in human cancer. <i>Nature</i> , 2013 , 500, 415-21	50.4	5895
16	Hypermutation of the inactive X chromosome is a frequent event in cancer. <i>Cell</i> , 2013 , 155, 567-81	56.2	50
15	Protease activation mutants elicit protective immunity against highly pathogenic avian influenza viruses of subtype H7 in chickens and mice. <i>Emerging Microbes and Infections</i> , 2013 , 2, e7	18.9	10
14	Clonal Evolution In Patients With Chronic Lymphocytic Leukemia (CLL) Developing Resistance To BTK Inhibition. <i>Blood</i> , 2013 , 122, 866-866	2.2	20
13	Genetic lesions of the TRAF3 and MAP3K14 genes in classical Hodgkin lymphoma. <i>British Journal of Haematology</i> , 2012 , 157, 702-8	4.5	71
12	Recurrent mutation of the ID3 gene in Burkitt lymphoma identified by integrated genome, exome and transcriptome sequencing. <i>Nature Genetics</i> , 2012 , 44, 1316-20	36.3	317
11	The protein interaction network of a taxis signal transduction system in a halophilic archaeon. <i>BMC Microbiology</i> , 2012 , 12, 272	4.5	32
10	Identification of Archaea-specific chemotaxis proteins which interact with the flagellar apparatus. <i>BMC Microbiology</i> , 2009 , 9, 56	4.5	67

9	What do we learn from high-throughput protein interaction data?. <i>Expert Review of Proteomics</i> , 2004 , 1, 111-21	4.2	69
8	The evolutionary history of 2,658 cancers		28
7	Deciphering programs of transcriptional regulation by combined deconvolution of multiple omics layers		6
6	Germline determinants of the somatic mutation landscape in 2,642 cancer genomes		13
5	Identification and prioritisation of causal variants in human genetic disorders from exome or whole genome sequencing data		1
4	ACEseq Allele specific copy number estimation from whole genome sequencing		17
3	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes		25
2	Cell segmentation-free inference of cell types from in situ transcriptomics data		9
1	Integrated phospho-proteogenomic and single-cell transcriptomic analysis of meningiomas establishes robust subtyping and reveals subtype-specific immune invasion		2