

# Matthias Schlesner

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5217988/matthias-schlesner-publications-by-citations.pdf>

**Version:** 2024-04-27

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.

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	Signatures of mutational processes in human cancer. <i>Nature</i> , <b>2013</b> , 500, 415-21	50.4	5895
115	Complex heatmaps reveal patterns and correlations in multidimensional genomic data. <i>Bioinformatics</i> , <b>2016</b> , 32, 2847-9	7.2	2316
114	circlize Implements and enhances circular visualization in R. <i>Bioinformatics</i> , <b>2014</b> , 30, 2811-2	7.2	1242
113	The landscape of genomic alterations across childhood cancers. <i>Nature</i> , <b>2018</b> , 555, 321-327	50.4	603
112	Recurrent somatic alterations of FGFR1 and NTRK2 in pilocytic astrocytoma. <i>Nature Genetics</i> , <b>2013</b> , 45, 927-32	36.3	550
111	New Brain Tumor Entities Emerge from Molecular Classification of CNS-PNETs. <i>Cell</i> , <b>2016</b> , 164, 1060-1073	36.2	483
110	The whole-genome landscape of medulloblastoma subtypes. <i>Nature</i> , <b>2017</b> , 547, 311-317	50.4	472
109	Recurrent mutation of the ID3 gene in Burkitt lymphoma identified by integrated genome, exome and transcriptome sequencing. <i>Nature Genetics</i> , <b>2012</b> , 44, 1316-20	36.3	317
108	The evolutionary history of 2,658 cancers. <i>Nature</i> , <b>2020</b> , 578, 122-128	50.4	307
107	A comprehensive assessment of somatic mutation detection in cancer using whole-genome sequencing. <i>Nature Communications</i> , <b>2015</b> , 6, 10001	17.4	199
106	Next-generation personalised medicine for high-risk paediatric cancer patients - The INFORM pilot study. <i>European Journal of Cancer</i> , <b>2016</b> , 65, 91-101	7.5	186
105	CYP3A5 mediates basal and acquired therapy resistance in different subtypes of pancreatic ductal adenocarcinoma. <i>Nature Medicine</i> , <b>2016</b> , 22, 278-87	50.5	148
104	A recurrent 11q aberration pattern characterizes a subset of MYC-negative high-grade B-cell lymphomas resembling Burkitt lymphoma. <i>Blood</i> , <b>2014</b> , 123, 1187-98	2.2	131
103	Integrative genomic and transcriptomic analysis of leiomyosarcoma. <i>Nature Communications</i> , <b>2018</b> , 9, 144	17.4	115
102	Screening drug effects in patient-derived cancer cells links organoid responses to genome alterations. <i>Molecular Systems Biology</i> , <b>2017</b> , 13, 955	12.2	113
101	DNA methylome analysis in Burkitt and follicular lymphomas identifies differentially methylated regions linked to somatic mutation and transcriptional control. <i>Nature Genetics</i> , <b>2015</b> , 47, 1316-1325	36.3	101
100	Fusions in Wild-Type Pancreatic Cancer. <i>Cancer Discovery</i> , <b>2018</b> , 8, 1087-1095	24.4	99

99	Evolutionary Trajectories of IDH Glioblastomas Reveal a Common Path of Early Tumorigenesis Instigated Years ahead of Initial Diagnosis. <i>Cancer Cell</i> , <b>2019</b> , 35, 692-704.e12	24.3	92
98	Molecular Evolution of Early-Onset Prostate Cancer Identifies Molecular Risk Markers and Clinical Trajectories. <i>Cancer Cell</i> , <b>2018</b> , 34, 996-1011.e8	24.3	89
97	Precision oncology based on omics data: The NCT Heidelberg experience. <i>International Journal of Cancer</i> , <b>2017</b> , 141, 877-886	7.5	82
96	B-cell-specific conditional expression of Myd88p.L252P leads to the development of diffuse large B-cell lymphoma in mice. <i>Blood</i> , <b>2016</b> , 127, 2732-41	2.2	78
95	Genetic lesions of the TRAF3 and MAP3K14 genes in classical Hodgkin lymphoma. <i>British Journal of Haematology</i> , <b>2012</b> , 157, 702-8	4.5	71
94	Environment-induced epigenetic reprogramming in genomic regulatory elements in smoking mothers and their children. <i>Molecular Systems Biology</i> , <b>2016</b> , 12, 861	12.2	71
93	What do we learn from high-throughput protein interaction data?. <i>Expert Review of Proteomics</i> , <b>2004</b> , 1, 111-21	4.2	69
92	Identification of Archaea-specific chemotaxis proteins which interact with the flagellar apparatus. <i>BMC Microbiology</i> , <b>2009</b> , 9, 56	4.5	67
91	MYC/MIZ1-dependent gene repression inversely coordinates the circadian clock with cell cycle and proliferation. <i>Nature Communications</i> , <b>2016</b> , 7, 11807	17.4	65
90	Recurrent Somatic PDGFRB Mutations in Sporadic Infantile/Solitary Adult Myofibromas But Not in Angioleiomyomas and Myopericytomas. <i>American Journal of Surgical Pathology</i> , <b>2017</b> , 41, 195-203	6.7	60
89	Mechismo: predicting the mechanistic impact of mutations and modifications on molecular interactions. <i>Nucleic Acids Research</i> , <b>2015</b> , 43, e10	20.1	57
88	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes. <i>Cell</i> , <b>2021</b> , 184, 2239-2254.e39	56.2	57
87	RAS-pathway mutation patterns define epigenetic subclasses in juvenile myelomonocytic leukemia. <i>Nature Communications</i> , <b>2017</b> , 8, 2126	17.4	52
86	Whole genome sequencing puts forward hypotheses on metastasis evolution and therapy in colorectal cancer. <i>Nature Communications</i> , <b>2018</b> , 9, 4782	17.4	51
85	Hypermutation of the inactive X chromosome is a frequent event in cancer. <i>Cell</i> , <b>2013</b> , 155, 567-81	56.2	50
84	Genomic and transcriptomic changes complement each other in the pathogenesis of sporadic Burkitt lymphoma. <i>Nature Communications</i> , <b>2019</b> , 10, 1459	17.4	49
83	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> , <b>2020</b> , 15, 1177-1189	8.9	45
82	Recurrent RHOA mutations in pediatric Burkitt lymphoma treated according to the NHL-BFM protocols. <i>Genes Chromosomes and Cancer</i> , <b>2014</b> , 53, 911-6	5	44

81	Genomic footprints of activated telomere maintenance mechanisms in cancer. <i>Nature Communications</i> , <b>2020</b> , 11, 733	17.4	40
80	Defective homologous recombination DNA repair as therapeutic target in advanced chordoma. <i>Nature Communications</i> , <b>2019</b> , 10, 1635	17.4	33
79	The protein interaction network of a taxis signal transduction system in a halophilic archaeon. <i>BMC Microbiology</i> , <b>2012</b> , 12, 272	4.5	32
78	Alterations of microRNA and microRNA-regulated messenger RNA expression in germinal center B-cell lymphomas determined by integrative sequencing analysis. <i>Haematologica</i> , <b>2016</b> , 101, 1380-1389	6.6	31
77	Dissecting intratumour heterogeneity of nodal B-cell lymphomas at the transcriptional, genetic and drug-response levels. <i>Nature Cell Biology</i> , <b>2020</b> , 22, 896-906	23.4	30
76	Impact of clinical exomes in neurodevelopmental and neurometabolic disorders. <i>Molecular Genetics and Metabolism</i> , <b>2017</b> , 121, 297-307	3.7	30
75	Spatial niche formation but not malignant progression is a driving force for intratumoural heterogeneity. <i>Nature Communications</i> , <b>2016</b> , 7, ncomms11845	17.4	29
74	The mutational landscape of Burkitt-like lymphoma with 11q aberration is distinct from that of Burkitt lymphoma. <i>Blood</i> , <b>2019</b> , 133, 962-966	2.2	29
73	The evolutionary history of 2,658 cancers		28
72	Mutational patterns and regulatory networks in epigenetic subgroups of meningioma. <i>Acta Neuropathologica</i> , <b>2019</b> , 138, 295-308	14.3	27
71	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes		25
70	The transcriptomic and epigenetic map of vascular quiescence in the continuous lung endothelium. <i>ELife</i> , <b>2018</b> , 7,	8.9	25
69	YAP1-fusions in pediatric NF2-wildtype meningioma. <i>Acta Neuropathologica</i> , <b>2020</b> , 139, 215-218	14.3	24
68	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> , <b>2021</b> , 11, 638-659	24.4	24
67	Genetic subclone architecture of tumor clone-initiating cells in colorectal cancer. <i>Journal of Experimental Medicine</i> , <b>2017</b> , 214, 2073-2088	16.6	23
66	DDX3X mutations in two girls with a phenotype overlapping Toriello-Carey syndrome. <i>American Journal of Medical Genetics, Part A</i> , <b>2017</b> , 173, 1369-1373	2.5	23
65	Response to "Unexpected mutations after CRISPR-Cas9 editing in vivo". <i>Nature Methods</i> , <b>2018</b> , 15, 239-240	24.6	22
64	Response to olaparib in a germline mutated prostate cancer and genetic events associated with resistance. <i>Journal of Physical Education and Sports Management</i> , <b>2019</b> , 5,	2.8	21

63	The PCBP1 gene encoding poly(rC) binding protein I is recurrently mutated in Burkitt lymphoma. <i>Genes Chromosomes and Cancer</i> , <b>2015</b> , 54, 555-64	5	21
62	Clonal Evolution In Patients With Chronic Lymphocytic Leukemia (CLL) Developing Resistance To BTK Inhibition. <i>Blood</i> , <b>2013</b> , 122, 866-866	2.2	20
61	Meningiomas induced by low-dose radiation carry structural variants of NF2 and a distinct mutational signature. <i>Acta Neuropathologica</i> , <b>2017</b> , 134, 155-158	14.3	19
60	IG- neoplasms with precursor B-cell phenotype are molecularly distinct from Burkitt lymphomas. <i>Blood</i> , <b>2018</b> , 132, 2280-2285	2.2	19
59	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> , <b>2015</b> , 29, 1612-5	10.7	17
58	ACEseq Allele specific copy number estimation from whole genome sequencing		17
57	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> , <b>2015</b> , 23, 1627-33	5.3	15
56	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> , <b>2018</b> , 123, 364-374	3.7	15
55	Familial Cancer Variant Prioritization Pipeline version 2 (FCVPPv2) applied to a papillary thyroid cancer family. <i>Scientific Reports</i> , <b>2018</b> , 8, 11635	4.9	15
54	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> , <b>2020</b> , 105, e202-e205	6.6	15
53	Hypermutation takes the driver's seat. <i>Genome Medicine</i> , <b>2015</b> , 7, 31	14.4	14
52	Longitudinal therapy monitoring of ALK-positive lung cancer by combined copy number and targeted mutation profiling of cell-free DNA. <i>EBioMedicine</i> , <b>2020</b> , 62, 103103	8.8	14
51	Cell segmentation-free inference of cell types from in situ transcriptomics data. <i>Nature Communications</i> , <b>2021</b> , 12, 3545	17.4	14
50	NOTCH target gene HES5 mediates oncogenic and tumor suppressive functions in hepatocarcinogenesis. <i>Oncogene</i> , <b>2020</b> , 39, 3128-3144	9.2	13
49	Germline determinants of the somatic mutation landscape in 2,642 cancer genomes		13
48	Globally altered epigenetic landscape and delayed osteogenic differentiation in H3.3-G34W-mutant giant cell tumor of bone. <i>Nature Communications</i> , <b>2020</b> , 11, 5414	17.4	13
47	Timed Ang2-Targeted Therapy Identifies the Angiopoietin-Tie Pathway as Key Regulator of Fatal Lymphogenous Metastasis. <i>Cancer Discovery</i> , <b>2021</b> , 11, 424-445	24.4	12
46	Analysis of mutational signatures with yet another package for signature analysis. <i>Genes Chromosomes and Cancer</i> , <b>2021</b> , 60, 314-331	5	12

45	Temporal multi-omics identifies LRG1 as a vascular niche instructor of metastasis. <i>Science Translational Medicine</i> , <b>2021</b> , 13, eabe6805	17.5	11
44	Pheno-seq - linking visual features and gene expression in 3D cell culture systems. <i>Scientific Reports</i> , <b>2019</b> , 9, 12367	4.9	10
43	gtrellis: an R/Bioconductor package for making genome-level Trellis graphics. <i>BMC Bioinformatics</i> , <b>2016</b> , 17, 169	3.6	10
42	Homozygous missense mutation in the LMAN2L gene segregates with intellectual disability in a large consanguineous Pakistani family. <i>Journal of Medical Genetics</i> , <b>2016</b> , 53, 138-44	5.8	10
41	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> , <b>2013</b> , 2, e7	18.9	10
40	Hotspot DNMT3A mutations in clonal hematopoiesis and acute myeloid leukemia sensitize cells to azacytidine via viral mimicry response.. <i>Nature Cancer</i> , <b>2021</b> , 2, 527-544	15.4	10
39	Distributed Ledger Technology in genomics: a call for Europe. <i>European Journal of Human Genetics</i> , <b>2020</b> , 28, 139-140	5.3	10
38	Identification of SLC20A1 and SLC15A4 among other genes as potential risk factors for combined pituitary hormone deficiency. <i>Genetics in Medicine</i> , <b>2018</b> , 20, 728-736	8.1	10
37	Genomic features of renal cell carcinoma with venous tumor thrombus. <i>Scientific Reports</i> , <b>2018</b> , 8, 7477	4.9	9
36	Cell segmentation-free inference of cell types from in situ transcriptomics data		9
35	Identification of immunotherapeutic targets by genomic profiling of rectal NET metastases. <i>Oncolmunology</i> , <b>2016</b> , 5, e1213931	7.2	8
34	Exome sequencing reveals a novel CWF19L1 mutation associated with intellectual disability and cerebellar atrophy. <i>American Journal of Medical Genetics, Part A</i> , <b>2016</b> , 170, 1502-9	2.5	8
33	cola: an R/Bioconductor package for consensus partitioning through a general framework. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, e15	20.1	8
32	Patient-specific molecular alterations are associated with metastatic clear cell renal cell cancer progressing under tyrosine kinase inhibitor therapy. <i>Oncotarget</i> , <b>2017</b> , 8, 74049-74057	3.3	7
31	Structure of the archaeal chemotaxis protein CheY in a domain-swapped dimeric conformation. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2019</b> , 75, 576-585	1.1	7
30	Tumor cell network integration in glioma represents a stemness feature. <i>Neuro-Oncology</i> , <b>2021</b> , 23, 757-769		7
29	TALEN/CRISPR-mediated engineering of a promoterless anti-viral RNAi hairpin into an endogenous miRNA locus. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, e3	20.1	6
28	Deciphering programs of transcriptional regulation by combined deconvolution of multiple omics layers		6

27	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> , <b>2019</b> , 5,	2.8	6
26	Pedigree based DNA sequencing pipeline for germline genomes of cancer families. <i>Hereditary Cancer in Clinical Practice</i> , <b>2016</b> , 14, 16	2.3	5
25	A novel homozygous ARL13B variant in patients with Joubert syndrome impairs its guanine nucleotide-exchange factor activity. <i>European Journal of Human Genetics</i> , <b>2017</b> , 25, 1324-1334	5.3	4
24	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> , <b>2020</b> , 15, 1338-1350	8.9	4
23	IFN $\gamma$ secreted by breast cancer cells undergoing chemotherapy reprograms stromal fibroblasts to support tumour growth after treatment. <i>Molecular Oncology</i> , <b>2021</b> , 15, 1308-1329	7.9	4
22	The genomic and transcriptional landscape of primary central nervous system lymphoma.. <i>Nature Communications</i> , <b>2022</b> , 13, 2558	17.4	4
21	Germline Variants of and Predispose to Familial Colorectal Cancer.. <i>Cancers</i> , <b>2022</b> , 14,	6.6	3
20	Mutational mechanisms shaping the coding and noncoding genome of germinal center derived B-cell lymphomas. <i>Leukemia</i> , <b>2021</b> , 35, 2002-2016	10.7	3
19	Identification of Transient Receptor Potential Channel 4-Associated Protein as a Novel Candidate Gene Causing Congenital Primary Hypothyroidism. <i>Hormone Research in Paediatrics</i> , <b>2020</b> , 93, 16-29	3.3	2
18	Early identification of disease progression in ALK-rearranged lung cancer using circulating tumor DNA analysis. <i>Npj Precision Oncology</i> , <b>2021</b> , 5, 100	9.8	2
17	ShinyButchR: Interactive NMF-based decomposition workflow of genome-scale datasets. <i>Biology Methods and Protocols</i> , <b>2020</b> , 5, bpaa022	2.4	2
16	iTReX: Interactive exploration of mono- and combination therapy dose response profiling data. <i>Pharmacological Research</i> , <b>2021</b> , 175, 105996	10.2	2
15	Integrated phospho-proteogenomic and single-cell transcriptomic analysis of meningiomas establishes robust subtyping and reveals subtype-specific immune invasion		2
14	Combinations of Low-Frequency Genetic Variants Might Predispose to Familial Pancreatic Cancer. <i>Journal of Personalized Medicine</i> , <b>2021</b> , 11,	3.6	2
13	Evaluation of Whole Genome Sequencing Data. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1956, 321-336	1.4	2
12	Whole Exome Sequencing Identifies and Genes as Potentially Cancer Predisposing in Familial Colorectal Cancer. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
11	Segregation and potential functional impact of a rare stop-gain PABPC4L variant in familial atypical Parkinsonism. <i>Scientific Reports</i> , <b>2019</b> , 9, 13576	4.9	1
10	Identification and prioritisation of causal variants in human genetic disorders from exome or whole genome sequencing data		1

9	Framework for quality assessment of whole genome cancer sequences. <i>Nature Communications</i> , <b>2020</b> , 11, 5040	17.4	1
8	Immunohistochemical detection of inhibitor of DNA binding 3 mutational variants in mature aggressive B-cell lymphoma. <i>Haematologica</i> , <b>2016</b> , 101, e259-61	6.6	1
7	Putative second hit rare genetic variants in families with seemingly GBA-associated Parkinson's disease. <i>Npj Genomic Medicine</i> , <b>2021</b> , 6, 2	6.2	1
6	Characterization of rare germline variants in familial multiple myeloma. <i>Blood Cancer Journal</i> , <b>2021</b> , 11, 33	7	1
5	Differentially methylated regions within lung cancer risk loci are enriched in deregulated enhancers. <i>Epigenetics</i> , <b>2021</b> , 1-16	5.7	1
4	Molecular profiling of pediatric meningiomas shows tumor characteristics distinct from adult meningiomas. <i>Acta Neuropathologica</i> , <b>2021</b> , 142, 873-886	14.3	1
3	Genetic Interactions and Tissue Specificity Modulate the Association of Mutations with Drug Response. <i>Molecular Cancer Therapeutics</i> , <b>2020</b> , 19, 927-936	6.1	0
2	TMOD-04. IMAGE-BASED DRUG RESPONSE PROFILING FROM PEDIATRIC TUMOR CELL SPHEROIDS USING PATIENT-BY-PATIENT DEEP TRANSFER LEARNING. <i>Neuro-Oncology</i> , <b>2021</b> , 23, i36-i36	1	
1	Whole exome sequencing identifies novel germline variants of SLC15A4 gene as potentially cancer predisposing in familial colorectal cancer. <i>Molecular Genetics and Genomics</i> , <b>2022</b> , 1	3.1	