

# Matthias Schlesner

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5217988/publications.pdf>

Version: 2024-02-01

114  
papers

26,586  
citations

61945

43  
h-index

22808

112  
g-index

133  
all docs

133  
docs citations

133  
times ranked

49295  
citing authors

#	ARTICLE	IF	CITATIONS
1	Signatures of mutational processes in human cancer. <i>Nature</i> , 2013, 500, 415-421.	13.7	8,060
2	Complex heatmaps reveal patterns and correlations in multidimensional genomic data. <i>Bioinformatics</i> , 2016, 32, 2847-2849.	1.8	5,891
3	<i>circize</i> implements and enhances circular visualization in R. <i>Bioinformatics</i> , 2014, 30, 2811-2812.	1.8	2,736
4	The landscape of genomic alterations across childhood cancers. <i>Nature</i> , 2018, 555, 321-327.	13.7	1,068
5	The whole-genome landscape of medulloblastoma subtypes. <i>Nature</i> , 2017, 547, 311-317.	13.7	787
6	New Brain Tumor Entities Emerge from Molecular Classification of CNS-PNETs. <i>Cell</i> , 2016, 164, 1060-1072.	13.5	702
7	The evolutionary history of 2,658 cancers. <i>Nature</i> , 2020, 578, 122-128.	13.7	690
8	Recurrent somatic alterations of FGFR1 and NTRK2 in pilocytic astrocytoma. <i>Nature Genetics</i> , 2013, 45, 927-932.	9.4	674
9	Recurrent mutation of the ID3 gene in Burkitt lymphoma identified by integrated genome, exome and transcriptome sequencing. <i>Nature Genetics</i> , 2012, 44, 1316-1320.	9.4	389
10	A comprehensive assessment of somatic mutation detection in cancer using whole-genome sequencing. <i>Nature Communications</i> , 2015, 6, 10001.	5.8	266
11	Next-generation personalised medicine for high-risk paediatric cancer patients – The INFORM pilot study. <i>European Journal of Cancer</i> , 2016, 65, 91-101.	1.3	262
12	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes. <i>Cell</i> , 2021, 184, 2239-2254.e39.	13.5	260
13	Integrative genomic and transcriptomic analysis of leiomyosarcoma. <i>Nature Communications</i> , 2018, 9, 144.	5.8	197
14	Molecular Evolution of Early-Onset Prostate Cancer Identifies Molecular Risk Markers and Clinical Trajectories. <i>Cancer Cell</i> , 2018, 34, 996-1011.e8.	7.7	190
15	<i>NRG1</i> Fusions in <i>KRAS</i> Wild-Type Pancreatic Cancer. <i>Cancer Discovery</i> , 2018, 8, 1087-1095.	7.7	189
16	A recurrent 11q aberration pattern characterizes a subset of MYC-negative high-grade B-cell lymphomas resembling Burkitt lymphoma. <i>Blood</i> , 2014, 123, 1187-1198.	0.6	185
17	CYP3A5 mediates basal and acquired therapy resistance in different subtypes of pancreatic ductal adenocarcinoma. <i>Nature Medicine</i> , 2016, 22, 278-287.	15.2	184
18	Evolutionary Trajectories of IDHWT Glioblastomas Reveal a Common Path of Early Tumorigenesis Instigated Years ahead of Initial Diagnosis. <i>Cancer Cell</i> , 2019, 35, 692-704.e12.	7.7	172

#	ARTICLE	IF	CITATIONS
19	Screening drug effects in patient-derived cancer cells links organoid responses to genome alterations. <i>Molecular Systems Biology</i> , 2017, 13, 955.	3.2	163
20	Precision oncology based on omics data: The NCT Heidelberg experience. <i>International Journal of Cancer</i> , 2017, 141, 877-886.	2.3	133
21	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.	9.4	119
22	MYC/MIZ1-dependent gene repression inversely coordinates the circadian clock with cell cycle and proliferation. <i>Nature Communications</i> , 2016, 7, 11807.	5.8	103
23	Whole genome sequencing puts forward hypotheses on metastasis evolution and therapy in colorectal cancer. <i>Nature Communications</i> , 2018, 9, 4782.	5.8	103
24	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, 2732-2741.	0.6	99
25	Genomic and transcriptomic changes complement each other in the pathogenesis of sporadic Burkitt lymphoma. <i>Nature Communications</i> , 2019, 10, 1459.	5.8	99
26	Environment-induced epigenetic reprogramming in genomic regulatory elements in smoking mothers and their children. <i>Molecular Systems Biology</i> , 2016, 12, 861.	3.2	97
27	Mechismo: predicting the mechanistic impact of mutations and modifications on molecular interactions. <i>Nucleic Acids Research</i> , 2015, 43, e10-e10.	6.5	95
28	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.	4.6	93
29	RAS-pathway mutation patterns define epigenetic subclasses in juvenile myelomonocytic leukemia. <i>Nature Communications</i> , 2017, 8, 2126.	5.8	91
30	Genomic footprints of activated telomere maintenance mechanisms in cancer. <i>Nature Communications</i> , 2020, 11, 733.	5.8	87
31	What do we learn from high-throughput protein interaction data?. <i>Expert Review of Proteomics</i> , 2004, 1, 111-121.	1.3	86
32	Genetic lesions of the <i>TRAF3</i> and <i>MAP3K14</i> genes in classical Hodgkin lymphoma. <i>British Journal of Haematology</i> , 2012, 157, 702-708.	1.2	84
33	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.	0.5	81
34	Identification of Archaea-specific chemotaxis proteins which interact with the flagellar apparatus. <i>BMC Microbiology</i> , 2009, 9, 56.	1.3	76
35	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.	2.1	76
36	Mutational patterns and regulatory networks in epigenetic subgroups of meningioma. <i>Acta Neuropathologica</i> , 2019, 138, 295-308.	3.9	74

#	ARTICLE	IF	CITATIONS
37	The mutational landscape of Burkitt-like lymphoma with 11q aberration is distinct from that of Burkitt lymphoma. <i>Blood</i> , 2019, 133, 962-966.	0.6	69
38	Hypermethylation of the Inactive X Chromosome Is a Frequent Event in Cancer. <i>Cell</i> , 2013, 155, 567-581.	13.5	67
39	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.	7.7	65
40	Defective homologous recombination DNA repair as therapeutic target in advanced chordoma. <i>Nature Communications</i> , 2019, 10, 1635.	5.8	64
41	Cell segmentation-free inference of cell types from in situ transcriptomics data. <i>Nature Communications</i> , 2021, 12, 3545.	5.8	52
42	The genomic and transcriptional landscape of primary central nervous system lymphoma. <i>Nature Communications</i> , 2022, 13, 2558.	5.8	52
43	Recurrent <i>RHOA</i> mutations in pediatric Burkitt lymphoma treated according to the NHL-BFM protocols. <i>Genes Chromosomes and Cancer</i> , 2014, 53, 911-916.	1.5	51
44	Impact of clinical exomes in neurodevelopmental and neurometabolic disorders. <i>Molecular Genetics and Metabolism</i> , 2017, 121, 297-307.	0.5	50
45	IG-MYC+ neoplasms with precursor B-cell phenotype are molecularly distinct from Burkitt lymphomas. <i>Blood</i> , 2018, 132, 2280-2285.	0.6	50
46	YAP1-fusions in pediatric NF2-wildtype meningioma. <i>Acta Neuropathologica</i> , 2020, 139, 215-218.	3.9	45
47	Spatial niche formation but not malignant progression is a driving force for intratumoural heterogeneity. <i>Nature Communications</i> , 2016, 7, ncomms11845.	5.8	44
48	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.	1.7	43
49	The transcriptomic and epigenetic map of vascular quiescence in the continuous lung endothelium. <i>ELife</i> , 2018, 7, .	2.8	43
50	<i>DDX3X</i> mutations in two girls with a phenotype overlapping Toriello-Carey syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2017, 173, 1369-1373.	0.7	41
51	Analysis of mutational signatures with yet another package for signature analysis. <i>Genes Chromosomes and Cancer</i> , 2021, 60, 314-331.	1.5	40
52	The protein interaction network of a taxis signal transduction system in a Halophilic Archaeon. <i>BMC Microbiology</i> , 2012, 12, 272.	1.3	37
53	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.	5.7	37
54	Response to olaparib in a <i>PALB2</i> germline mutated prostate cancer and genetic events associated with resistance. <i>Journal of Physical Education and Sports Management</i> , 2019, 5, a003657.	0.5	36

#	ARTICLE	IF	CITATIONS
55	Temporal multi-omics identifies LRG1 as a vascular niche instructor of metastasis. <i>Science Translational Medicine</i> , 2021, 13, eabe6805.	5.8	36
56	Mutational mechanisms shaping the coding and noncoding genome of germinal center derived B-cell lymphomas. <i>Leukemia</i> , 2021, 35, 2002-2016.	3.3	34
57	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.	2.7	32
58	<i>cola</i> : an R/Bioconductor package for consensus partitioning through a general framework. <i>Nucleic Acids Research</i> , 2021, 49, e15-e15.	6.5	32
59	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.	5.8	31
60	Genetic subclone architecture of tumor clone-initiating cells in colorectal cancer. <i>Journal of Experimental Medicine</i> , 2017, 214, 2073-2088.	4.2	30
61	Familial Cancer Variant Prioritization Pipeline version 2 (FCVPPv2) applied to a papillary thyroid cancer family. <i>Scientific Reports</i> , 2018, 8, 11635.	1.6	30
62	The <i>PCBP1</i> gene encoding poly(rc) binding protein i is recurrently mutated in Burkitt lymphoma. <i>Genes Chromosomes and Cancer</i> , 2015, 54, 555-564.	1.5	29
63	NOTCH target gene HES5 mediates oncogenic and tumor suppressive functions in hepatocarcinogenesis. <i>Oncogene</i> , 2020, 39, 3128-3144.	2.6	28
64	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, 1612-1615.	3.3	26
65	Meningiomas induced by low-dose radiation carry structural variants of NF2 and a distinct mutational signature. <i>Acta Neuropathologica</i> , 2017, 134, 155-158.	3.9	26
66	Tumor cell network integration in glioma represents a stemness feature. <i>Neuro-Oncology</i> , 2021, 23, 757-769.	0.6	25
67	Cryptic insertion of <i>MYC</i> exons 2 and 3 into the immunoglobulin heavy chain locus detected by whole genome sequencing in a case of <i>MYC</i> -negative Burkitt lymphoma. <i>Haematologica</i> , 2020, 105, e202-e205.	1.7	24
68	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.	0.5	23
69	Response to Unexpected mutations after CRISPR-Cas9 editing in vivo. <i>Nature Methods</i> , 2018, 15, 239-240.	9.0	22
70	Clonal Evolution In Patients With Chronic Lymphocytic Leukemia (CLL) Developing Resistance To BTK Inhibition. <i>Blood</i> , 2013, 122, 866-866.	0.6	22
71	gtrellis: an R/Bioconductor package for making genome-level Trellis graphics. <i>BMC Bioinformatics</i> , 2016, 17, 169.	1.2	21
72	Early identification of disease progression in ALK-rearranged lung cancer using circulating tumor DNA analysis. <i>Npj Precision Oncology</i> , 2021, 5, 100.	2.3	21

#	ARTICLE	IF	CITATIONS
73	Genomic features of renal cell carcinoma with venous tumor thrombus. <i>Scientific Reports</i> , 2018, 8, 7477.	1.6	19
74	Distributed Ledger Technology in genomics: a call for Europe. <i>European Journal of Human Genetics</i> , 2020, 28, 139-140.	1.4	19
75	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.	1.1	18
76	Timed Ang2-Targeted Therapy Identifies the Angiopoietin-Tie Pathway as Key Regulator of Fatal Lymphogenous Metastasis. <i>Cancer Discovery</i> , 2021, 11, 424-445.	7.7	18
77	Homozygous missense mutation in the <i>LMAN2L</i> gene segregates with intellectual disability in a large consanguineous Pakistani family. <i>Journal of Medical Genetics</i> , 2016, 53, 138-144.	1.5	16
78	Pheno-seq linking visual features and gene expression in 3D cell culture systems. <i>Scientific Reports</i> , 2019, 9, 12367.	1.6	16
79	Hypermutation takes the driver's seat. <i>Genome Medicine</i> , 2015, 7, 31.	3.6	15
80	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, 1627-1633.	1.4	15
81	Identification of immunotherapeutic targets by genomic profiling of rectal NET metastases. <i>Oncotarget</i> , 2016, 5, e1213931.	2.1	14
82	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.	0.8	14
83	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, 1-9.	3.0	13
84	Exome sequencing reveals a novel <i>CWF19L1</i> mutation associated with intellectual disability and cerebellar atrophy. <i>American Journal of Medical Genetics, Part A</i> , 2016, 170, 1502-1509.	0.7	13
85	Serial liquid biopsies for detection of treatment failure and profiling of resistance mechanisms in <i>KLC1</i> -rearranged lung cancer. <i>Journal of Physical Education and Sports Management</i> , 2019, 5, a004630.	0.5	13
86	Molecular profiling of pediatric meningiomas shows tumor characteristics distinct from adult meningiomas. <i>Acta Neuropathologica</i> , 2021, 142, 873-886.	3.9	12
87	Putative second hit rare genetic variants in families with seemingly GBA-associated Parkinson's disease. <i>Npj Genomic Medicine</i> , 2021, 6, 2.	1.7	11
88	ShinyButchR: Interactive NMF-based decomposition workflow of genome-scale datasets. <i>Biology Methods and Protocols</i> , 2020, 5, bpaa022.	1.0	11
89	iTreX: Interactive exploration of mono- and combination therapy dose response profiling data. <i>Pharmacological Research</i> , 2022, 175, 105996.	3.1	11
90	Germline Variants of CYBA and TRPM4 Predispose to Familial Colorectal Cancer. <i>Cancers</i> , 2022, 14, 670.	1.7	11

#	ARTICLE	IF	CITATIONS
91	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.	0.4	10
92	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.	1.4	9
93	IFN $\gamma$ 21 secreted by breast cancer cells undergoing chemotherapy reprograms stromal fibroblasts to support tumour growth after treatment. <i>Molecular Oncology</i> , 2021, 15, 1308-1329.	2.1	9
94	Combinations of Low-Frequency Genetic Variants Might Predispose to Familial Pancreatic Cancer. <i>Journal of Personalized Medicine</i> , 2021, 11, 631.	1.1	9
95	TALEN/CRISPR-mediated engineering of a promoterless anti-viral RNAi hairpin into an endogenous miRNA locus. <i>Nucleic Acids Research</i> , 2017, 45, e3-e3.	6.5	8
96	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.	0.5	8
97	Pedigree based DNA sequencing pipeline for germline genomes of cancer families. <i>Hereditary Cancer in Clinical Practice</i> , 2016, 14, 16.	0.6	7
98	Identification of $\text{TRP}4$ -Associated Protein as a Novel Candidate Gene Causing Congenital Primary Hypothyroidism. <i>Hormone Research in Paediatrics</i> , 2020, 93, 16-29.	0.8	7
99	Characterization of rare germline variants in familial multiple myeloma. <i>Blood Cancer Journal</i> , 2021, 11, 33.	2.8	7
100	Evaluation of Whole Genome Sequencing Data. <i>Methods in Molecular Biology</i> , 2019, 1956, 321-336.	0.4	6
101	Whole Exome Sequencing Identifies APCDD1 and HDAC5 Genes as Potentially Cancer Predisposing in Familial Colorectal Cancer. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1837.	1.8	6
102	A scoping review of distributed ledger technology in genomics: thematic analysis and directions for future research. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2022, 29, 1433-1444.	2.2	6
103	Genetic Interactions and Tissue Specificity Modulate the Association of Mutations with Drug Response. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 927-936.	1.9	5
104	Framework for quality assessment of whole genome cancer sequences. <i>Nature Communications</i> , 2020, 11, 5040.	5.8	5
105	DNMT1 Deficiency Impacts on Plasmacytoid Dendritic Cells in Homeostasis and Autoimmune Disease. <i>Journal of Immunology</i> , 2022, 208, 358-370.	0.4	5
106	Segregation and potential functional impact of a rare stop-gain PABPC4L variant in familial atypical Parkinsonism. <i>Scientific Reports</i> , 2019, 9, 13576.	1.6	3
107	Immunohistochemical detection of inhibitor of DNA binding 3 mutational variants in mature aggressive B-cell lymphoma. <i>Haematologica</i> , 2016, 101, e259-e261.	1.7	2
108	Cancer Predisposition Genes in Cancer-Free Families. <i>Cancers</i> , 2020, 12, 2770.	1.7	2

#	ARTICLE	IF	CITATIONS
109	Differentially methylated regions within lung cancer risk loci are enriched in deregulated enhancers. <i>Epigenetics</i> , 2022, 17, 117-132.	1.3	2
110	Whole-Exome Sequencing Identifies a Novel Germline Variant in PTK7 Gene in Familial Colorectal Cancer. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1295.	1.8	2
111	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.	1.0	1
112	A Novel Low-Risk Germline Variant in the SH2 Domain of the SRC Gene Affects Multiple Pathways in Familial Colorectal Cancer. <i>Journal of Personalized Medicine</i> , 2021, 11, 262.	1.1	0
113	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.	0.6	0
114	Multimomics analysis of pediatric solid tumors within the INFORM precision oncology study: From functional drug profiling to biomarker identification.. <i>Journal of Clinical Oncology</i> , 2022, 40, 10036-10036.	0.8	0