

# Florian Markowetz

## List of Publications by Year in descending order

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Version: 2024-02-01

86  
papers

13,083  
citations

71102

41  
h-index

64796

79  
g-index

110  
all docs

110  
docs citations

110  
times ranked

22456  
citing authors

#	ARTICLE	IF	CITATIONS
1	The genomic and transcriptomic architecture of 2,000 breast tumours reveals novel subgroups. <i>Nature</i> , 2012, 486, 346-352.	27.8	4,708
2	The evolutionary history of 2,658 cancers. <i>Nature</i> , 2020, 578, 122-128.	27.8	690
3	Poor-prognosis colon cancer is defined by a molecularly distinct subtype and develops from serrated precursor lesions. <i>Nature Medicine</i> , 2013, 19, 614-618.	30.7	656
4	Acetylcysteine for prevention of contrast nephropathy: meta-analysis. <i>Lancet</i> , The, 2003, 362, 598-603.	13.7	486
5	Patterns of Immune Infiltration in Breast Cancer and Their Clinical Implications: A Gene-Expression-Based Retrospective Study. <i>PLoS Medicine</i> , 2016, 13, e1002194.	8.4	473
6	Quantitative Image Analysis of Cellular Heterogeneity in Breast Tumors Complements Genomic Profiling. <i>Science Translational Medicine</i> , 2012, 4, 157ra143.	12.4	356
7	Copy number signatures and mutational processes in ovarian carcinoma. <i>Nature Genetics</i> , 2018, 50, 1262-1270.	21.4	320
8	Spatial and Temporal Heterogeneity in High-Grade Serous Ovarian Cancer: A Phylogenetic Analysis. <i>PLoS Medicine</i> , 2015, 12, e1001789.	8.4	314
9	Inferring cellular networks – a review. <i>BMC Bioinformatics</i> , 2007, 8, S5.	2.6	311
10	Cancer Evolution: Mathematical Models and Computational Inference. <i>Systematic Biology</i> , 2015, 64, e1-e25.	5.6	292
11	Systems-level dynamic analyses of fate change in murine embryonic stem cells. <i>Nature</i> , 2009, 462, 358-362.	27.8	277
12	Characterizing genetic intra-tumor heterogeneity across 2,658 human cancer genomes. <i>Cell</i> , 2021, 184, 2239-2254.e39.	28.9	260
13	OncoNEM: inferring tumor evolution from single-cell sequencing data. <i>Genome Biology</i> , 2016, 17, 69.	8.8	199
14	Multi-omic machine learning predictor of breast cancer therapy response. <i>Nature</i> , 2022, 601, 623-629.	27.8	187
15	Master regulators of FGFR2 signalling and breast cancer risk. <i>Nature Communications</i> , 2013, 4, 2464.	12.8	180
16	Regulators of genetic risk of breast cancer identified by integrative network analysis. <i>Nature Genetics</i> , 2016, 48, 12-21.	21.4	163
17	Cytosponge-trefoil factor 3 versus usual care to identify Barrett's oesophagus in a primary care setting: a multicentre, pragmatic, randomised controlled trial. <i>Lancet</i> , The, 2020, 396, 333-344.	13.7	143
18	Diverse epigenetic strategies interact to control epidermal differentiation. <i>Nature Cell Biology</i> , 2012, 14, 753-763.	10.3	139

#	ARTICLE	IF	CITATIONS
19	Unraveling tumor immune heterogeneity in advanced ovarian cancer uncovers immunogenic effect of chemotherapy. <i>Nature Genetics</i> , 2020, 52, 582-593.	21.4	136
20	HTSanalyzeR: an R/Bioconductor package for integrated network analysis of high-throughput screens. <i>Bioinformatics</i> , 2011, 27, 879-880.	4.1	131
21	Practical and Robust Identification of Molecular Subtypes in Colorectal Cancer by Immunohistochemistry. <i>Clinical Cancer Research</i> , 2017, 23, 387-398.	7.0	128
22	Phylogenetic Quantification of Intra-tumour Heterogeneity. <i>PLoS Computational Biology</i> , 2014, 10, e1003535.	3.2	126
23	A pan-cancer compendium of chromosomal instability. <i>Nature</i> , 2022, 606, 976-983.	27.8	111
24	A quantitative mass spectrometry-based approach to monitor the dynamics of endogenous chromatin-associated protein complexes. <i>Nature Communications</i> , 2018, 9, 2311.	12.8	104
25	BitPhylogeny: a probabilistic framework for reconstructing intra-tumor phylogenies. <i>Genome Biology</i> , 2015, 16, 36.	8.8	103
26	Reproducibility standards for machine learning in the life sciences. <i>Nature Methods</i> , 2021, 18, 1132-1135.	19.0	96
27	The Genomic and Immune Landscapes of Lethal Metastatic Breast Cancer. <i>Cell Reports</i> , 2019, 27, 2690-2708.e10.	6.4	95
28	Nested effects models for high-dimensional phenotyping screens. <i>Bioinformatics</i> , 2007, 23, i305-i312.	4.1	94
29	Combined image and genomic analysis of high-grade serous ovarian cancer reveals PTEN loss as a common driver event and prognostic classifier. <i>Genome Biology</i> , 2014, 15, 526.	8.8	93
30	RedeR: R/Bioconductor package for representing modular structures, nested networks and multiple levels of hierarchical associations. <i>Genome Biology</i> , 2012, 13, R29.	9.6	91
31	Non-transcriptional pathway features reconstructed from secondary effects of RNA interference. <i>Bioinformatics</i> , 2005, 21, 4026-4032.	4.1	86
32	Patient-Specific Data Fusion Defines Prognostic Cancer Subtypes. <i>PLoS Computational Biology</i> , 2011, 7, e1002227.	3.2	81
33	Accumulated Metabolites of Hydroxybutyric Acid Serve as Diagnostic and Prognostic Biomarkers of Ovarian High-Grade Serous Carcinomas. <i>Cancer Research</i> , 2016, 76, 796-804.	0.9	74
34	Intratumor heterogeneity defines treatment-resistant HER2+ breast tumors. <i>Molecular Oncology</i> , 2018, 12, 1838-1855.	4.6	74
35	All biology is computational biology. <i>PLoS Biology</i> , 2017, 15, e2002050.	5.6	73
36	SANTA: Quantifying the Functional Content of Molecular Networks. <i>PLoS Computational Biology</i> , 2014, 10, e1003808.	3.2	66

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37	Triage-driven diagnosis of Barrett's esophagus for early detection of esophageal adenocarcinoma using deep learning. <i>Nature Medicine</i> , 2021, 27, 833-841.	30.7	65
38	Five selfish reasons to work reproducibly. <i>Genome Biology</i> , 2015, 16, 274.	8.8	63
39	Neutral tumor evolution?. <i>Nature Genetics</i> , 2018, 50, 1630-1633.	21.4	59
40	KHS101 disrupts energy metabolism in human glioblastoma cells and reduces tumor growth in mice. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	54
41	How to Understand the Cell by Breaking It: Network Analysis of Gene Perturbation Screens. <i>PLoS Computational Biology</i> , 2010, 6, e1000655.	3.2	51
42	Structure Learning in Nested Effects Models. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2008, 7, Article9.	0.6	42
43	A phylogenetic latent feature model for clonal deconvolution. <i>Annals of Applied Statistics</i> , 2016, 10, .	1.1	42
44	Master Regulators of Oncogenic KRAS Response in Pancreatic Cancer: An Integrative Network Biology Analysis. <i>PLoS Medicine</i> , 2017, 14, e1002223.	8.4	39
45	Support Vector Machines for Protein Fold Class Prediction. <i>Biometrical Journal</i> , 2003, 45, 377-389.	1.0	36
46	Differential C3NET reveals disease networks of direct physical interactions. <i>BMC Bioinformatics</i> , 2011, 12, 296.	2.6	35
47	How Subclonal Modeling Is Changing the Metastatic Paradigm. <i>Clinical Cancer Research</i> , 2017, 23, 630-635.	7.0	34
48	Analysis of heterogeneity in T2-weighted MR images can differentiate pseudoprogression from progression in glioblastoma. <i>PLoS ONE</i> , 2017, 12, e0176528.	2.5	34
49	Inferring structural variant cancer cell fraction. <i>Nature Communications</i> , 2020, 11, 730.	12.8	33
50	Immunophenotypes of pancreatic ductal adenocarcinoma: Meta-analysis of transcriptional subtypes. <i>International Journal of Cancer</i> , 2019, 145, 1125-1137.	5.1	30
51	Integrative radiogenomics for virtual biopsy and treatment monitoring in ovarian cancer. <i>Insights Into Imaging</i> , 2020, 11, 94.	3.4	30
52	Dissecting cancer heterogeneity – An unsupervised classification approach. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 2574-2579.	2.8	28
53	Tissue-specific and interpretable sub-segmentation of whole tumour burden on CT images by unsupervised fuzzy clustering. <i>Computers in Biology and Medicine</i> , 2020, 120, 103751.	7.0	27
54	BaalChIP: Bayesian analysis of allele-specific transcription factor binding in cancer genomes. <i>Genome Biology</i> , 2017, 18, 39.	8.8	26

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55	VULCAN integrates ChIP-seq with patient-derived co-expression networks to identify GRHL2 as a key co-regulator of ERα at enhancers in breast cancer. <i>Genome Biology</i> , 2019, 20, 91.	8.8	24
56	Mapping Dynamic Histone Acetylation Patterns to Gene Expression in Nanog-Depleted Murine Embryonic Stem Cells. <i>PLoS Computational Biology</i> , 2010, 6, e1001034.	3.2	23
57	Parallel factor ChIP provides essential internal control for quantitative differential ChIP-seq. <i>Nucleic Acids Research</i> , 2018, 46, e75-e75.	14.5	21
58	Computational identification of cellular networks and pathways. <i>Molecular BioSystems</i> , 2007, 3, 478.	2.9	20
59	Ultrasound-guided targeted biopsies of CT-based radiomic tumour habitats: technical development and initial experience in metastatic ovarian cancer. <i>European Radiology</i> , 2021, 31, 3765-3772.	4.5	20
60	The Genomic Landscape of Early-Stage Ovarian High-Grade Serous Carcinoma. <i>Clinical Cancer Research</i> , 2022, 28, 2911-2922.	7.0	19
61	Posterior Association Networks and Functional Modules Inferred from Rich Phenotypes of Gene Perturbations. <i>PLoS Computational Biology</i> , 2012, 8, e1002566.	3.2	18
62	A saltationist theory of cancer evolution. <i>Nature Genetics</i> , 2016, 48, 1102-1103.	21.4	18
63	Reconstructing evolving signalling networks by hidden Markov nested effects models. <i>Annals of Applied Statistics</i> , 2014, 8, .	1.1	16
64	Allele-specific multi-sample copy number segmentation in ASCAT. <i>Bioinformatics</i> , 2021, 37, 1909-1911.	4.1	16
65	Low perfusion compartments in glioblastoma quantified by advanced magnetic resonance imaging and correlated with patient survival. <i>Radiotherapy and Oncology</i> , 2019, 134, 17-24.	0.6	15
66	Inferring modulators of genetic interactions with epistatic nested effects models. <i>PLoS Computational Biology</i> , 2017, 13, e1005496.	3.2	13
67	Evolutionary Distances in the Twilight Zone—A Rational Kernel Approach. <i>PLoS ONE</i> , 2010, 5, e15788.	2.5	13
68	Genome-wide Estrogen Receptor- $\alpha$ activation is sustained, not cyclical. <i>ELife</i> , 2018, 7, .	6.0	12
69	Clinically Interpretable Radiomics-Based Prediction of Histopathologic Response to Neoadjuvant Chemotherapy in High-Grade Serous Ovarian Carcinoma. <i>Frontiers in Oncology</i> , 0, 12, .	2.8	12
70	Decoding the Interdependence of Multiparametric Magnetic Resonance Imaging to Reveal Patient Subgroups Correlated with Survivals. <i>Neoplasia</i> , 2019, 21, 442-449.	5.3	9
71	GolFISH: a system for the quantification of single cell heterogeneity from IFISH images. <i>Genome Biology</i> , 2014, 15, 442.	8.8	8
72	Computational Diagnostics with Gene Expression Profiles. <i>Methods in Molecular Biology</i> , 2008, 453, 281-296.	0.9	7

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73	Development of a miRNA-based classifier for detection of colorectal cancer molecular subtypes. <i>Molecular Oncology</i> , 2022, 16, 2693-2709.	4.6	6
74	Data generation and network reconstruction strategies for single cell transcriptomic profiles of CRISPR-mediated gene perturbations. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2020, 1863, 194441.	1.9	4
75	You Are Not Working for Me; I Am Working with You. <i>PLoS Computational Biology</i> , 2015, 11, e1004387.	3.2	3
76	A sparse regulatory network of copy-number driven expression reveals putative breast cancer oncogenes. , 2010, , .		2
77	An introduction to systems genetics. , 0, , 1-11.		2
78	FrenchFISH: Poisson Models for Quantifying DNA Copy Number From Fluorescence In Situ Hybridization of Tissue Sections. <i>JCO Clinical Cancer Informatics</i> , 2021, 5, 176-186.	2.1	2
79	Class Discovery in Gene Expression Data: Characterizing Splits by Support Vector Machines. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , 2003, , 662-669.	0.2	2
80	Quantification of TFF3 expression from a non-endoscopic device predicts clinically relevant Barrett's oesophagus by machine learning. <i>EBioMedicine</i> , 2022, 82, 104160.	6.1	2
81	Deregulation upon DNA damage revealed by joint analysis of context-specific perturbation data. <i>BMC Bioinformatics</i> , 2011, 12, 249.	2.6	1
82	Refining cellular pathway models using an ensemble of heterogeneous data sources. <i>Annals of Applied Statistics</i> , 2018, 12, .	1.1	1
83	Genetic interactions and network reliability. , 0, , 51-64.		0
84	Joining the dots: network analysis of gene perturbation data. , 0, , 83-107.		0
85	Computational pathology aids derivation of microRNA biomarker signals from Cytosponge samples. <i>EBioMedicine</i> , 2022, 76, 103814.	6.1	0
86	Computational Diagnostics. , 2005, , 324-327.		0