

Marcel H Schulz

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

8,576
citations

230014

27
h-index

62345

84
g-index

110
all docs

110
docs citations

110
times ranked

22010
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative analysis of common alignment tools for single-cell RNA sequencing. <i>GigaScience</i> , 2022, 11, .	3.3	17
2	Energy efficient convolutional neural networks for arrhythmia detection. <i>Array</i> , 2022, 13, 100127.	2.5	2
3	Nuclear receptor activation shapes spatial genome organization essential for gene expression control: lessons learned from the vitamin D receptor. <i>Nucleic Acids Research</i> , 2022, 50, 3745-3763.	6.5	8
4	Broad domains of histone marks in the highly compact <i>Paramecium</i> macronuclear genome. <i>Genome Research</i> , 2022, 32, 710-725.	2.4	7
5	SPONGEdb: a pan-cancer resource for competing endogenous RNA interactions. <i>NAR Cancer</i> , 2021, 3, zcaa042.	1.6	14
6	Single cell sequencing reveals endothelial plasticity with transient mesenchymal activation after myocardial infarction. <i>Nature Communications</i> , 2021, 12, 681.	5.8	158
7	A hierarchical regulatory network analysis of the vitamin D induced transcriptome reveals novel regulators and complete VDR dependency in monocytes. <i>Scientific Reports</i> , 2021, 11, 6518.	1.6	28
8	Computational prediction of CRISPR-impaired non-coding regulatory regions. <i>Biological Chemistry</i> , 2021, 402, 973-982.	1.2	1
9	Machine learning for deciphering cell heterogeneity and gene regulation. <i>Nature Computational Science</i> , 2021, 1, 183-191.	3.8	14
10	CpG content-dependent associations between transcription factors and histone modifications. <i>PLoS ONE</i> , 2021, 16, e0249985.	1.1	0
11	Fostering accessible online education using Galaxy as an e-learning platform. <i>PLoS Computational Biology</i> , 2021, 17, e1008923.	1.5	15
12	Bioinformatics in theory and application – highlights of the 36th German Conference on Bioinformatics. <i>Biological Chemistry</i> , 2021, 402, 869-870.	1.2	1
13	Machine learning based disease prediction from genotype data. <i>Biological Chemistry</i> , 2021, 402, 871-885.	1.2	7
14	Integrative analysis of epigenetics data identifies gene-specific regulatory elements. <i>Nucleic Acids Research</i> , 2021, 49, 10397-10418.	6.5	14
15	Dysregulation of cholesterol homeostasis in human lung cancer tissue and tumour-associated macrophages. <i>EBioMedicine</i> , 2021, 72, 103578.	2.7	43
16	Two Piwis with Ago-like functions silence somatic genes at the chromatin level. <i>RNA Biology</i> , 2021, 18, 757-769.	1.5	5
17	Fast detection of differential chromatin domains with SCIDDO. <i>Bioinformatics</i> , 2021, 37, 1198-1205.	1.8	6
18	Prediction of single-cell gene expression for transcription factor analysis. <i>GigaScience</i> , 2020, 9, .	3.3	11

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19	Deletion of NoxO1 limits atherosclerosis development in female mice. <i>Redox Biology</i> , 2020, 37, 101713.	3.9	13
20	Yeast Viral Killer Toxin K1 Induces Specific Host Cell Adaptions via Intrinsic Selection Pressure. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	8
21	Feeding exogenous dsRNA interferes with endogenous sRNA accumulation in <i>Paramecium</i> . <i>DNA Research</i> , 2020, 27, .	1.5	4
22	EpiRegio: analysis and retrieval of regulatory elements linked to genes. <i>Nucleic Acids Research</i> , 2020, 48, W193-W199.	6.5	26
23	Altered glucocorticoid metabolism represents a feature of macrophage aging. <i>Aging Cell</i> , 2020, 19, e13156.	3.0	24
24	Chromatyping: Reconstructing Nucleosome Profiles from NOMe Sequencing Data. <i>Journal of Computational Biology</i> , 2020, 27, 330-341.	0.8	0
25	Integrative prediction of gene expression with chromatin accessibility and conformation data. <i>Epigenetics and Chromatin</i> , 2020, 13, 4.	1.8	21
26	SRSF7 maintains its homeostasis through the expression of Split-ORFs and nuclear body assembly. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 260-273.	3.6	51
27	On the problem of confounders in modeling gene expression. <i>Bioinformatics</i> , 2019, 35, 711-719.	1.8	11
28	The lncRNA Locus Handsdown Regulates Cardiac Gene Programs and Is Essential for Early Mouse Development. <i>Developmental Cell</i> , 2019, 50, 644-657.e8.	3.1	66
29	Large-scale inference of competing endogenous RNA networks with sparse partial correlation. <i>Bioinformatics</i> , 2019, 35, i596-i604.	1.8	50
30	Transcriptomics of a KDELR1 knockout cell line reveals modulated cell adhesion properties. <i>Scientific Reports</i> , 2019, 9, 10611.	1.6	7
31	Exogenous RNAi mechanisms contribute to transcriptome adaptation by phased siRNA clusters in <i>Paramecium</i> . <i>Nucleic Acids Research</i> , 2019, 47, 8036-8049.	6.5	21
32	The mRNA-binding Protein TTP/ZFP36 in Hepatocarcinogenesis and Hepatocellular Carcinoma. <i>Cancers</i> , 2019, 11, 1754.	1.7	20
33	Phenotypic Plasticity of Fibroblasts during Mammary Carcinoma Development. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4438.	1.8	19
34	Unique and assay specific features of NOMe-, ATAC- and DNase I-seq data. <i>Nucleic Acids Research</i> , 2019, 47, 10580-10596.	6.5	31
35	Transcriptome Kinetics of <i>Saccharomyces cerevisiae</i> in Response to Viral Killer Toxin K1. <i>Frontiers in Microbiology</i> , 2019, 10, 1102.	1.5	5
36	Identification of transcription factor binding sites using ATAC-seq. <i>Genome Biology</i> , 2019, 20, 45.	3.8	346

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37	Improving in-silico normalization using read weights. <i>Scientific Reports</i> , 2019, 9, 5133.	1.6	9
38	Improved linking of motifs to their TFs using domain information. <i>Bioinformatics</i> , 2019, 36, 1655-1662.	1.8	1
39	Temporal enhancer profiling of parallel lineages identifies AHR and GLIS1 as regulators of mesenchymal multipotency. <i>Nucleic Acids Research</i> , 2019, 47, 1141-1163.	6.5	16
40	TEPIC 2â€”an extended framework for transcription factor binding prediction and integrative epigenomic analysis. <i>Bioinformatics</i> , 2019, 35, 1608-1609.	1.8	34
41	Hepatocellular Carcinoma and Nuclear Paraspeckles: Induction in Chemoresistance and Prediction for Poor Survival. <i>Cellular Physiology and Biochemistry</i> , 2019, 52, 787-801.	1.1	29
42	Automated analysis of small RNA datasets with RAPID. <i>PeerJ</i> , 2019, 7, e6710.	0.9	8
43	JAMI: fast computation of conditional mutual information for ceRNA network analysis. <i>Bioinformatics</i> , 2018, 34, 3050-3051.	1.8	13
44	More than the â€œKiller Traitâ€” Infection with the Bacterial Endosymbiont <i>Caedibacter taeniospiralis</i> Causes Transcriptomic Modulation in <i>Paramecium</i> Host. <i>Genome Biology and Evolution</i> , 2018, 10, 646-656.	1.1	30
45	Integrative analysis of single-cell expression data reveals distinct regulatory states in bidirectional promoters. <i>Epigenetics and Chromatin</i> , 2018, 11, 66.	1.8	6
46	Analysis of Cell Type-Specific Effects of MicroRNA-92a Provides Novel Insights Into Target Regulation and Mechanism of Action. <i>Circulation</i> , 2018, 138, 2545-2558.	1.6	61
47	An ontology-based method for assessing batch effect adjustment approaches in heterogeneous datasets. <i>Bioinformatics</i> , 2018, 34, i908-i916.	1.8	10
48	Environmental Temperature Controls Accumulation of Transacting siRNAs Involved in Heterochromatin Formation. <i>Genes</i> , 2018, 9, 117.	1.0	7
49	Transgenic expression of the RNA binding protein IMP2 stabilizes miRNA targets in murine microsteatosis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3099-3108.	1.8	10
50	<i>In silico</i> read normalization using set multi-cover optimization. <i>Bioinformatics</i> , 2018, 34, 3273-3280.	1.8	8
51	Predicting transcription factor binding using ensemble random forest models. <i>F1000Research</i> , 2018, 7, 1603.	0.8	8
52	Chromatyping: Reconstructing Nucleosome Profiles from NOMe Sequencing Data. <i>Lecture Notes in Computer Science</i> , 2018, , 21-36.	1.0	0
53	RegulatorTrail: a web service for the identification of key transcriptional regulators. <i>Nucleic Acids Research</i> , 2017, 45, W146-W153.	6.5	21
54	DNA-Seq Error Correction Based on Substring Indices. , 2017, , 147-166.		0

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55	Probabilistic Models for Error Correction of Nonuniform Sequencing Data. , 2017, , 131-145.		0
56	Combining transcription factor binding affinities with open-chromatin data for accurate gene expression prediction. Nucleic Acids Research, 2017, 45, 54-66.	6.5	112
57	The long non-coding RNA H19 suppresses carcinogenesis and chemoresistance in hepatocellular carcinoma. Cell Stress, 2017, 1, 37-54.	1.4	50
58	Epigenomic Profiling of Human CD4+ T Cells Supports a Linear Differentiation Model and Highlights Molecular Regulators of Memory Development. Immunity, 2016, 45, 1148-1161.	6.6	174
59	The International Human Epigenome Consortium: A Blueprint for Scientific Collaboration and Discovery. Cell, 2016, 167, 1145-1149.	13.5	404
60	Informed k-mer selection for de novo transcriptome assembly. Bioinformatics, 2016, 32, 1670-1677.	1.8	25
61	Two sets of RNAi components are required for heterochromatin formation in trans triggered by truncated transgenes. Nucleic Acids Research, 2016, 44, 5908-5923.	6.5	17
62	A general concept for consistent documentation of computational analyses. Database: the Journal of Biological Databases and Curation, 2015, 2015, bav050.	1.4	9
63	De novo ChIP-seq analysis. Genome Biology, 2015, 16, 205.	3.8	10
64	Epigenetic regulation of serotype expression antagonizes transcriptome dynamics in Paramecium tetraurelia. DNA Research, 2015, 22, 293-305.	1.5	18
65	Letting the data speak for themselves: a fully Bayesian approach to transcriptome assembly. Genome Biology, 2014, 15, 498.	3.8	1
66	Fiona: a parallel and automatic strategy for read error correction. Bioinformatics, 2014, 30, i356-i363.	1.8	59
67	Assessment of transcript reconstruction methods for RNA-seq. Nature Methods, 2013, 10, 1177-1184.	9.0	679
68	Probabilistic error correction for RNA sequencing. Nucleic Acids Research, 2013, 41, e109-e109.	6.5	68
69	Reconstructing dynamic microRNA-regulated interaction networks. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 15686-15691.	3.3	59
70	Bayesian ontology querying for accurate and noise-tolerant semantic searches. Bioinformatics, 2012, 28, 2502-2508.	1.8	55
71	Detecting genomic indel variants with exact breakpoints in single- and paired-end sequencing data using SplazerS. Bioinformatics, 2012, 28, 619-627.	1.8	95
72	Estimation of pairwise sequence similarity of mammalian enhancers with word neighbourhood counts. Bioinformatics, 2012, 28, 656-663.	1.8	45

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73	<i>Oases</i> : robust <i>de novo</i> RNA-seq assembly across the dynamic range of expression levels. <i>Bioinformatics</i> , 2012, 28, 1086-1092.	1.8	1,351
74	DREM 2.0: Improved reconstruction of dynamic regulatory networks from time-series expression data. <i>BMC Systems Biology</i> , 2012, 6, 104.	3.0	118
75	DECOD: fast and accurate discriminative DNA motif finding. <i>Bioinformatics</i> , 2011, 27, 2361-2367.	1.8	38
76	Exact score distribution computation for ontological similarity searches. <i>BMC Bioinformatics</i> , 2011, 12, 441.	1.2	15
77	A tandem sequence motif acts as a distance-dependent enhancer in a set of genes involved in translation by binding the proteins NonO and SFPQ. <i>BMC Genomics</i> , 2011, 12, 624.	1.2	10
78	Integrative analysis of genomic, functional and protein interaction data predicts long-range enhancer-target gene interactions. <i>Nucleic Acids Research</i> , 2011, 39, 2492-2502.	6.5	22
79	Prediction of alternative isoforms from exon expression levels in RNA-Seq experiments. <i>Nucleic Acids Research</i> , 2010, 38, e112-e112.	6.5	134
80	Pindel: a pattern growth approach to detect break points of large deletions and medium sized insertions from paired-end short reads. <i>Bioinformatics</i> , 2009, 25, 2865-2871.	1.8	1,811
81	Clinical Diagnostics in Human Genetics with Semantic Similarity Searches in Ontologies. <i>American Journal of Human Genetics</i> , 2009, 85, 457-464.	2.6	444
82	Short ultraconserved promoter regions delineate a class of preferentially expressed alternatively spliced transcripts. <i>Genomics</i> , 2009, 94, 308-316.	1.3	11
83	Exact Score Distribution Computation for Similarity Searches in Ontologies. <i>Lecture Notes in Computer Science</i> , 2009, , 298-309.	1.0	3
84	A short ultraconserved sequence drives transcription from an alternate FBN1 promoter. <i>International Journal of Biochemistry and Cell Biology</i> , 2008, 40, 638-650.	1.2	15
85	A Global View of Gene Activity and Alternative Splicing by Deep Sequencing of the Human Transcriptome. <i>Science</i> , 2008, 321, 956-960.	6.0	1,164
86	Mapping translocation breakpoints by next-generation sequencing. <i>Genome Research</i> , 2008, 18, 1143-1149.	2.4	118
87	The generalised <i>k</i> -Truncated Suffix Tree for time-and space-efficient searches in multiple DNA or protein sequences. <i>International Journal of Bioinformatics Research and Applications</i> , 2008, 4, 81.	0.1	19
88	Efficient String Mining under Constraints Via the Deferred Frequency Index. <i>Lecture Notes in Computer Science</i> , 2008, , 374-388.	1.0	6
89	Fast and Adaptive Variable Order Markov Chain Construction. <i>Lecture Notes in Computer Science</i> , 2008, , 306-317.	1.0	15