

# Sandrine Dudoit

## List of Publications by Citations

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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.

84  
papers

26,281  
citations

44  
h-index

94  
g-index

94  
ext. papers

30,753  
ext. citations

9.7  
avg, IF

6.69  
L-index

#	Paper	IF	Citations
84	Bioconductor: open software development for computational biology and bioinformatics. <i>Genome Biology</i> , <b>2004</b> , 5, R80	18.3	9148
83	Normalization for cDNA microarray data: a robust composite method addressing single and multiple slide systematic variation. <i>Nucleic Acids Research</i> , <b>2002</b> , 30, e15	20.1	2571
82	Comparison of Discrimination Methods for the Classification of Tumors Using Gene Expression Data. <i>Journal of the American Statistical Association</i> , <b>2002</b> , 97, 77-87	2.8	1778
81	Evaluation of statistical methods for normalization and differential expression in mRNA-Seq experiments. <i>BMC Bioinformatics</i> , <b>2010</b> , 11, 94	3.6	1132
80	The developmental transcriptome of <i>Drosophila melanogaster</i> . <i>Nature</i> , <b>2011</b> , 471, 473-9	50.4	1094
79	Normalization of RNA-seq data using factor analysis of control genes or samples. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 896-902	44.5	910
78	Identification of functional elements and regulatory circuits by <i>Drosophila</i> modENCODE. <i>Science</i> , <b>2010</b> , 330, 1787-97	33.3	892
77	Diversity, topographic differentiation, and positional memory in human fibroblasts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 12877-82	11.5	852
76	Multiple Hypothesis Testing in Microarray Experiments. <i>Statistical Science</i> , <b>2003</b> , 18, 71	2.4	614
75	Slingshot: cell lineage and pseudotime inference for single-cell transcriptomics. <i>BMC Genomics</i> , <b>2018</b> , 19, 477	4.5	591
74	Non-neuronal expression of SARS-CoV-2 entry genes in the olfactory system suggests mechanisms underlying COVID-19-associated anosmia. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	514
73	Biases in Illumina transcriptome sequencing caused by random hexamer priming. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, e131	20.1	471
72	GC-content normalization for RNA-Seq data. <i>BMC Bioinformatics</i> , <b>2011</b> , 12, 480	3.6	458
71	Survival ensembles. <i>Biostatistics</i> , <b>2006</b> , 7, 355-73	3.7	403
70	A prediction-based resampling method for estimating the number of clusters in a dataset. <i>Genome Biology</i> , <b>2002</b> , 3, RESEARCH0036	18.3	384
69	Resampling-based multiple testing for microarray data analysis. <i>Test</i> , <b>2003</b> , 12, 1-77	1.1	366
68	Bagging to improve the accuracy of a clustering procedure. <i>Bioinformatics</i> , <b>2003</b> , 19, 1090-9	7.2	344

67	Stereotyped and specific gene expression programs in human innate immune responses to bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 972-7 <sup>11.5</sup>	337
66	A general and flexible method for signal extraction from single-cell RNA-seq data. <i>Nature Communications</i> , <b>2018</b> , 9, 284	17.4 306
65	Normalizing single-cell RNA sequencing data: challenges and opportunities. <i>Nature Methods</i> , <b>2017</b> , 14, 565-571	21.6 255
64	Comparison of Methods for Image Analysis on cDNA Microarray Data. <i>Journal of Computational and Graphical Statistics</i> , <b>2002</b> , 11, 108-136	1.4 243
63	Stage II colon cancer prognosis prediction by tumor gene expression profiling. <i>Journal of Clinical Oncology</i> , <b>2006</b> , 24, 4685-91	2.2 173
62	Open Source Software for the Analysis of Microarray Data. <i>BioTechniques</i> , <b>2003</b> , 34, S45-S51	2.5 172
61	Conservation of an RNA regulatory map between Drosophila and mammals. <i>Genome Research</i> , <b>2011</b> , 21, 193-202	9.7 165
60	Deconstructing Olfactory Stem Cell Trajectories at Single-Cell Resolution. <i>Cell Stem Cell</i> , <b>2017</b> , 20, 817-838.e8	104
59	Observation weights unlock bulk RNA-seq tools for zero inflation and single-cell applications. <i>Genome Biology</i> , <b>2018</b> , 19, 24	18.3 101
58	Asymptotics of cross-validated risk estimation in estimator selection and performance assessment. <i>Statistical Methodology</i> , <b>2005</b> , 2, 131-154	93
57	Trajectory-based differential expression analysis for single-cell sequencing data. <i>Nature Communications</i> , <b>2020</b> , 11, 1201	17.4 86
56	Multiple testing. Part I. Single-step procedures for control of general type I error rates. <i>Statistical Applications in Genetics and Molecular Biology</i> , <b>2004</b> , 3, Article13	1.2 84
55	Colon cancer prognosis prediction by gene expression profiling. <i>Oncogene</i> , <b>2005</b> , 24, 6155-64	9.2 83
54	Polygenic and directional regulatory evolution across pathways in <i>Saccharomyces</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 5058-63	11.5 76
53	Exploration of global gene expression in human liver steatosis by high-density oligonucleotide microarray. <i>Laboratory Investigation</i> , <b>2006</b> , 86, 154-65	5.9 76
52	Diverse transcriptional programs associated with environmental stress and hormones in the <i>Arabidopsis</i> receptor-like kinase gene family. <i>Molecular Plant</i> , <b>2009</b> , 2, 84-107	14.4 71
51	A general framework for statistical performance comparison of evolutionary computation algorithms. <i>Information Sciences</i> , <b>2008</b> , 178, 2870-2879	7.7 71
50	Genome-wide identification of alternative splice forms down-regulated by nonsense-mediated mRNA decay in <i>Drosophila</i> . <i>PLoS Genetics</i> , <b>2009</b> , 5, e1000525	6 68

49	Performance Assessment and Selection of Normalization Procedures for Single-Cell RNA-Seq. <i>Cell Systems</i> , <b>2019</b> , 8, 315-328.e8	10.6	66
48	Oracle inequalities for multi-fold cross validation. <i>Statistics &amp; Risk Modeling</i> , <b>2006</b> , 24, 351-371		66
47	Augmentation procedures for control of the generalized family-wise error rate and tail probabilities for the proportion of false positives. <i>Statistical Applications in Genetics and Molecular Biology</i> , <b>2004</b> , 3, Article15	1.2	62
46	Ischemic preconditioning modulates the expression of several genes, leading to the overproduction of IL-1Ra, iNOS, and Bcl-2 in a human model of liver ischemia-reperfusion. <i>FASEB Journal</i> , <b>2005</b> , 19, 1617-26	0.9	60
45	More power via graph-structured tests for differential expression of gene networks. <i>Annals of Applied Statistics</i> , <b>2012</b> , 6,	2.1	57
44	Asymptotic optimality of likelihood-based cross-validation. <i>Statistical Applications in Genetics and Molecular Biology</i> , <b>2004</b> , 3, Article4	1.2	56
43	The establishment of gene silencing at single-cell resolution. <i>Nature Genetics</i> , <b>2009</b> , 41, 800-6	36.3	53
42	The cross-validated adaptive epsilon-net estimator. <i>Statistics &amp; Risk Modeling</i> , <b>2006</b> , 24, 373-395		52
41	Tree-based multivariate regression and density estimation with right-censored data. <i>Journal of Multivariate Analysis</i> , <b>2004</b> , 90, 154-177	1.4	45
40	A multimodal cell census and atlas of the mammalian primary motor cortex. <i>Nature</i> , <b>2021</b> , 598, 86-102	50.4	44
39	Multiple testing. Part II. Step-down procedures for control of the family-wise error rate. <i>Statistical Applications in Genetics and Molecular Biology</i> , <b>2004</b> , 3, Article14	1.2	43
38	Injury Activates Transient Olfactory Stem Cell States with Diverse Lineage Capacities. <i>Cell Stem Cell</i> , <b>2017</b> , 21, 775-790.e9	18	42
37	Silencing of odorant receptor genes by G protein signaling ensures the expression of one odorant receptor per olfactory sensory neuron. <i>Neuron</i> , <b>2014</b> , 81, 847-59	13.9	41
36	A score test for the linkage analysis of qualitative and quantitative traits based on identity by descent data from sib-pairs. <i>Biostatistics</i> , <b>2000</b> , 1, 1-26	3.7	41
35	An untargeted metabolomics method for archived newborn dried blood spots in epidemiologic studies. <i>Metabolomics</i> , <b>2017</b> , 13, 1	4.7	38
34	Multiple testing methods for ChIP-Chip high density oligonucleotide array data. <i>Journal of Computational Biology</i> , <b>2006</b> , 13, 579-613	1.7	34
33	Novel low abundance and transient RNAs in yeast revealed by tiling microarrays and ultra high-throughput sequencing are not conserved across closely related yeast species. <i>PLoS Genetics</i> , <b>2008</b> , 4, e1000299	6	29
32	clusterExperiment and RSEC: A Bioconductor package and framework for clustering of single-cell and other large gene expression datasets. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1006378	5	26

31	Gene expression profiling of nonneoplastic mucosa may predict clinical outcome of colon cancer patients. <i>Diseases of the Colon and Rectum</i> , <b>2005</b> , 48, 2238-48	3.1	25
30	A transcriptomic and epigenomic cell atlas of the mouse primary motor cortex. <i>Nature</i> , <b>2021</b> , 598, 103-110	10.4	23
29	An integrated transcriptomic and epigenomic atlas of mouse primary motor cortex cell types		23
28	Metabolomics of neonatal blood spots reveal distinct phenotypes of pediatric acute lymphoblastic leukemia and potential effects of early-life nutrition. <i>Cancer Letters</i> , <b>2019</b> , 452, 71-78	9.9	21
27	Resampling-based empirical Bayes multiple testing procedures for controlling generalized tail probability and expected value error rates: focus on the false discovery rate and simulation study. <i>Biometrical Journal</i> , <b>2008</b> , 50, 716-44	1.5	20
26	ZINB-WaVE: A general and flexible method for signal extraction from single-cell RNA-seq data		19
25	Untargeted adductomics of Cys34 modifications to human serum albumin in newborn dried blood spots. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 2351-2362	4.4	19
24	Performance Assessment and Selection of Normalization Procedures for Single-Cell RNA-seq		16
23	Slingshot: Cell lineage and pseudotime inference for single-cell transcriptomics		15
22	Untargeted lipidomic features associated with colorectal cancer in a prospective cohort. <i>BMC Cancer</i> , <b>2018</b> , 18, 996	4.8	13
21	A fine-scale linkage-disequilibrium measure based on length of haplotype sharing. <i>American Journal of Human Genetics</i> , <b>2006</b> , 78, 615-28	11	12
20	Microarray Expression Profiling Identifies Genes with Altered Expression in HDL-Deficient Mice. <i>Genome Research</i> , <b>2000</b> , 10, 2022-2029	9.7	12
19	A multimodal cell census and atlas of the mammalian primary motor cortex		12
18	Bioconductor workflow for single-cell RNA sequencing: Normalization, dimensionality reduction, clustering, and lineage inference. <i>F1000Research</i> , <b>2017</b> , 6, 1158	3.6	11
17	Supervised detection of regulatory motifs in DNA sequences. <i>Statistical Applications in Genetics and Molecular Biology</i> , <b>2003</b> , 2, Article5	1.2	10
16	Cys34 Adductomics Links Colorectal Cancer with the Gut Microbiota and Redox Biology. <i>Cancer Research</i> , <b>2019</b> , 79, 6024-6031	10.1	10
15	Comparing Segmentation Methods for Genome Annotation Based on RNA-Seq Data. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , <b>2014</b> , 19, 101-118	1.9	9
14	Loss-based estimation with cross-validation. <i>SIGKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery &amp; Data Mining</i> , <b>2003</b> , 5, 56-68	4.6	9

13	Asymptotically optimal model selection method with right censored outcomes. <i>Bernoulli</i> , <b>2004</b> , 10, 1011-16	9
12	Trajectory-based differential expression analysis for single-cell sequencing data	9
11	Untargeted adductomics of newborn dried blood spots identifies modifications to human serum albumin associated with childhood leukemia. <i>Leukemia Research</i> , <b>2020</b> , 88, 106268	2.7 9
10	A deletion/substitution/addition algorithm for classification neural networks, with applications to biomedical data. <i>Journal of Statistical Planning and Inference</i> , <b>2008</b> , 138, 464-488	0.8 7
9	Power and robustness of a score test for linkage analysis of quantitative traits using identity by descent data on sib pairs. <i>Genetic Epidemiology</i> , <b>2001</b> , 20, 415-31	2.6 6
8	Untargeted metabolomics of newborn dried blood spots reveals sex-specific associations with pediatric acute myeloid leukemia. <i>Leukemia Research</i> , <b>2021</b> , 106, 106585	2.7 4
7	Power of a score test for quantitative trait linkage analysis of relative pairs. <i>Genetic Epidemiology</i> , <b>2000</b> , 19 Suppl 1, S85-91	2.6 3
6	clusterExperiment and RSEC: A Bioconductor package and framework for clustering of single-cell and other large gene expression datasets	2
5	Exploring High-Dimensional Biological Data with Sparse Contrastive Principal Component Analysis	1
4	Klf5 establishes bi-potential cell fate by dual regulation of ICM and TE specification genes. <i>Cell Reports</i> , <b>2021</b> , 37, 109982	10.6 0
3	cvCovEst: Cross-validated covariance matrix estimator selection and evaluation in R. <i>Journal of Open Source Software</i> , <b>2021</b> , 6, 3273	5.2 0
2	Loss-Based Estimation with Evolutionary Algorithms and Cross-Validation. <i>Adaptation, Learning, and Optimization</i> , <b>2010</b> , 453-484	0.7
1	scPCA: A toolbox for sparse contrastive principal component analysis in R. <i>Journal of Open Source Software</i> , <b>2020</b> , 5, 2079	5.2