

Atul Butte

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.

118
papers

11,203
citations

40
h-index

105
g-index

142
ext. papers

15,873
ext. citations

11.5
avg, IF

6.66
L-index

#	Paper	IF	Citations
118	xCell: digitally portraying the tissue cellular heterogeneity landscape. <i>Genome Biology</i> , 2017 , 18, 220	18.3	1050
117	Personal omics profiling reveals dynamic molecular and medical phenotypes. <i>Cell</i> , 2012 , 148, 1293-307	56.2	921
116	Scalable and accurate deep learning with electronic health records. <i>Npj Digital Medicine</i> , 2018 , 1, 18	15.7	853
115	Reference-based analysis of lung single-cell sequencing reveals a transitional profibrotic macrophage. <i>Nature Immunology</i> , 2019 , 20, 163-172	19.1	752
114	Variation in the human immune system is largely driven by non-heritable influences. <i>Cell</i> , 2015 , 160, 37-47	56.2	586
113	Clinical assessment incorporating a personal genome. <i>Lancet, The</i> , 2010 , 375, 1525-35	40	565
112	Systematic pan-cancer analysis of tumour purity. <i>Nature Communications</i> , 2015 , 6, 8971	17.4	555
111	Discovery and preclinical validation of drug indications using compendia of public gene expression data. <i>Science Translational Medicine</i> , 2011 , 3, 96ra77	17.5	542
110	Computational repositioning of the anticonvulsant topiramate for inflammatory bowel disease. <i>Science Translational Medicine</i> , 2011 , 3, 96ra76	17.5	430
109	ImmPort: disseminating data to the public for the future of immunology. <i>Immunologic Research</i> , 2014 , 58, 234-9	4.3	392
108	An Environment-Wide Association Study (EWAS) on type 2 diabetes mellitus. <i>PLoS ONE</i> , 2010 , 5, e10746	3.7	372
107	Systematic survey reveals general applicability of "guilt-by-association" within gene coexpression networks. <i>BMC Bioinformatics</i> , 2005 , 6, 227	3.6	294
106	A drug repositioning approach identifies tricyclic antidepressants as inhibitors of small cell lung cancer and other neuroendocrine tumors. <i>Cancer Discovery</i> , 2013 , 3, 1364-77	24.4	272
105	ImmPort, toward repurposing of open access immunological assay data for translational and clinical research. <i>Scientific Data</i> , 2018 , 5, 180015	8.2	233
104	Quantifying the relationship between co-expression, co-regulation and gene function. <i>BMC Bioinformatics</i> , 2004 , 5, 18	3.6	231
103	Comprehensive analysis of normal adjacent to tumor transcriptomes. <i>Nature Communications</i> , 2017 , 8, 1077	17.4	216
102	A longitudinal big data approach for precision health. <i>Nature Medicine</i> , 2019 , 25, 792-804	50.5	183

101	Mutations in NGLY1 cause an inherited disorder of the endoplasmic reticulum-associated degradation pathway. <i>Genetics in Medicine</i> , 2014 , 16, 751-8	8.1	138
100	Autoimmune disease classification by inverse association with SNP alleles. <i>PLoS Genetics</i> , 2009 , 5, e1000792	12.2	129
99	A meta-analysis of lung cancer gene expression identifies PTK7 as a survival gene in lung adenocarcinoma. <i>Cancer Research</i> , 2014 , 74, 2892-902	10.1	108
98	Leveraging big data to transform target selection and drug discovery. <i>Clinical Pharmacology and Therapeutics</i> , 2016 , 99, 285-97	6.1	105
97	Evidence for benefit of statins to modify cognitive decline and risk in Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2017 , 9, 10	9	104
96	A nutrient-wide association study on blood pressure. <i>Circulation</i> , 2012 , 126, 2456-64	16.7	104
95	A call for deep-learning healthcare. <i>Nature Medicine</i> , 2019 , 25, 14-15	50.5	99
94	Cross-tissue Analysis of Gene and Protein Expression in Normal and Cancer Tissues. <i>Scientific Reports</i> , 2016 , 6, 24799	4.9	96
93	Disease signatures are robust across tissues and experiments. <i>Molecular Systems Biology</i> , 2009 , 5, 307	12.2	90
92	Minimum information about clinical artificial intelligence modeling: the MI-CLAIM checklist. <i>Nature Medicine</i> , 2020 , 26, 1320-1324	50.5	87
91	Reversal of cancer gene expression correlates with drug efficacy and reveals therapeutic targets. <i>Nature Communications</i> , 2017 , 8, 16022	17.4	85
90	Robust meta-analysis of gene expression using the elastic net. <i>Nucleic Acids Research</i> , 2015 , 43, e79	20.1	76
89	Cross-species functional analysis of cancer-associated fibroblasts identifies a critical role for CLCF1 and IL-6 in non-small cell lung cancer in vivo. <i>Cancer Research</i> , 2012 , 72, 5744-56	10.1	75
88	Assessment of a Deep Learning Model Based on Electronic Health Record Data to Forecast Clinical Outcomes in Patients With Rheumatoid Arthritis. <i>JAMA Network Open</i> , 2019 , 2, e190606	10.4	67
87	PDX-MI: Minimal Information for Patient-Derived Tumor Xenograft Models. <i>Cancer Research</i> , 2017 , 77, e62-e66	10.1	65
86	Prototype of running clinical trials in an untrustworthy environment using blockchain. <i>Nature Communications</i> , 2019 , 10, 917	17.4	65
85	Comprehensive transcriptomic analysis of cell lines as models of primary tumors across 22 tumor types. <i>Nature Communications</i> , 2019 , 10, 3574	17.4	58
84	Differentially expressed RNA from public microarray data identifies serum protein biomarkers for cross-organ transplant rejection and other conditions. <i>PLoS Computational Biology</i> , 2010 , 6, e1000940	5	58

83	Drug discovery in a multidimensional world: systems, patterns, and networks. <i>Journal of Cardiovascular Translational Research</i> , 2010 , 3, 438-47	3.3	50
82	ZeitZeiger: supervised learning for high-dimensional data from an oscillatory system. <i>Nucleic Acids Research</i> , 2016 , 44, e80	20.1	47
81	Widespread parainflammation in human cancer. <i>Genome Biology</i> , 2016 , 17, 145	18.3	45
80	Relating hepatocellular carcinoma tumor samples and cell lines using gene expression data in translational research. <i>BMC Medical Genomics</i> , 2015 , 8 Suppl 2, S5	3.7	44
79	ProfileChaser: searching microarray repositories based on genome-wide patterns of differential expression. <i>Bioinformatics</i> , 2011 , 27, 3317-8	7.2	40
78	Relating Chemical Structure to Cellular Response: An Integrative Analysis of Gene Expression, Bioactivity, and Structural Data Across 11,000 Compounds. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2015 , 4, 576-84	4.5	37
77	Opening clinical trial data: are the voluntary data-sharing portals enough?. <i>BMC Medicine</i> , 2015 , 13, 280	11.4	33
76	Combined inhibition of atypical PKC and histone deacetylase 1 is cooperative in basal cell carcinoma treatment. <i>JCI Insight</i> , 2017 , 2,	9.9	32
75	Identification of antiviral antihistamines for COVID-19 repurposing. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 538, 173-179	3.4	31
74	Integrating multiple Omics Analyses identifies serological protein biomarkers for preeclampsia. <i>BMC Medicine</i> , 2013 , 11, 236	11.4	28
73	Peptidomic Identification of Serum Peptides Diagnosing Preeclampsia. <i>PLoS ONE</i> , 2013 , 8, e65571	3.7	28
72	MetaCyto: A Tool for Automated Meta-analysis of Mass and Flow Cytometry Data. <i>Cell Reports</i> , 2018 , 24, 1377-1388	10.6	27
71	In silico and in vitro drug screening identifies new therapeutic approaches for Ewing sarcoma. <i>Oncotarget</i> , 2017 , 8, 4079-4095	3.3	26
70	Differential Phasing between Circadian Clocks in the Brain and Peripheral Organs in Humans. <i>Journal of Biological Rhythms</i> , 2016 , 31, 588-597	3.2	26
69	Protein microarrays discover angiotensinogen and PRKRIP1 as novel targets for autoantibodies in chronic renal disease. <i>Molecular and Cellular Proteomics</i> , 2011 , 10, M110.000497	7.6	24
68	Opportunities and challenges in using real-world data for health care. <i>Journal of Clinical Investigation</i> , 2020 , 130, 565-574	15.9	24
67	Use of electronic health records to support a public health response to the COVID-19 pandemic in the United States: a perspective from 15 academic medical centers. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021 , 28, 393-401	8.6	24
66	Corticosteroid use is not associated with improved outcomes in acute exacerbation of IPF. <i>Respirology</i> , 2020 , 25, 629-635	3.6	24

65	The 10,000 Immunomes Project: Building a Resource for Human Immunology. <i>Cell Reports</i> , 2018 , 25, 513-522.e3	10.6	22
64	A genome-wide association study identifies only two ancestry specific variants associated with spontaneous preterm birth. <i>Scientific Reports</i> , 2018 , 8, 226	4.9	21
63	Constraints on Biological Mechanism from Disease Comorbidity Using Electronic Medical Records and Database of Genetic Variants. <i>PLoS Computational Biology</i> , 2016 , 12, e1004885	5	21
62	Integrating biomedical research and electronic health records to create knowledge-based biologically meaningful machine-readable embeddings. <i>Nature Communications</i> , 2019 , 10, 3045	17.4	20
61	Characteristics and challenges of the clinical pipeline of digital therapeutics. <i>Npj Digital Medicine</i> , 2020 , 3, 159	15.7	20
60	Precision annotation of digital samples in NCBI's gene expression omnibus. <i>Scientific Data</i> , 2017 , 4, 170185	15	19
59	Time for NIH to lead on data sharing. <i>Science</i> , 2020 , 367, 1308-1309	33.3	18
58	Meta-Analysis of Vaginal Microbiome Data Provides New Insights Into Preterm Birth. <i>Frontiers in Microbiology</i> , 2020 , 11, 476	5.7	18
57	Reanalysis of the Rituximab in ANCA-Associated Vasculitis trial identifies granulocyte subsets as a novel early marker of successful treatment. <i>Arthritis Research and Therapy</i> , 2015 , 17, 262	5.7	17
56	Novel integration of hospital electronic medical records and gene expression measurements to identify genetic markers of maturation. <i>Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing</i> , 2008 , 243-54	1.3	15
55	Whole-genome sequencing of Atacama skeleton shows novel mutations linked with dysplasia. <i>Genome Research</i> , 2018 , 28, 423-431	9.7	14
54	Heterogeneity in HIV and cellular transcription profiles in cell line models of latent and productive infection: implications for HIV latency. <i>Retrovirology</i> , 2019 , 16, 32	3.6	14
53	A robust and interpretable end-to-end deep learning model for cytometry data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 21373-21380	11.5	14
52	Comparing Ethnicity-Specific Reference Intervals for Clinical Laboratory Tests from EHR Data. <i>Journal of applied laboratory medicine</i> , 2018 , 3, 366-377	2	14
51	A patient-level data meta-analysis of standard-of-care treatments from eight prostate cancer clinical trials. <i>Scientific Data</i> , 2016 , 3, 160027	8.2	12
50	Computational prediction and experimental validation associating FABP-1 and pancreatic adenocarcinoma with diabetes. <i>BMC Gastroenterology</i> , 2011 , 11, 5	3	12
49	Predicting Inpatient Medication Orders From Electronic Health Record Data. <i>Clinical Pharmacology and Therapeutics</i> , 2020 , 108, 145-154	6.1	10
48	Big data opens a window onto wellness. <i>Nature Biotechnology</i> , 2017 , 35, 720-721	44.5	10

47	Risky Business: Meeting the Structural Needs of Transdisciplinary Science. <i>Journal of Pediatrics</i> , 2017 , 191, 255-258	3.6	10
46	xCell: Digitally portraying the tissue cellular heterogeneity landscape		10
45	Protected Health Information filter (Philter): accurately and securely de-identifying free-text clinical notes. <i>Npj Digital Medicine</i> , 2020 , 3, 57	15.7	10
44	Robust prediction of clinical outcomes using cytometry data. <i>Bioinformatics</i> , 2019 , 35, 1197-1203	7.2	10
43	Comparison of automated and human assignment of MeSH terms on publicly-available molecular datasets. <i>Journal of Biomedical Informatics</i> , 2011 , 44 Suppl 1, S39-S43	10.2	9
42	Making it personal: translational bioinformatics. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2013 , 20, 595-6	8.6	8
41	Human splice factors contribute to latent HIV infection in primary cell models and blood CD4+ T cells from ART-treated individuals. <i>PLoS Pathogens</i> , 2020 , 16, e1009060	7.6	8
40	ROMOP: a light-weight R package for interfacing with OMOP-formatted electronic health record data. <i>JAMIA Open</i> , 2019 , 2, 10-14	2.9	7
39	CovidCounties is an interactive real time tracker of the COVID19 pandemic at the level of US counties. <i>Scientific Data</i> , 2020 , 7, 405	8.2	7
38	Assessment of Postdonation Outcomes in US Living Kidney Donors Using Publicly Available Data Sets. <i>JAMA Network Open</i> , 2019 , 2, e191851	10.4	6
37	Enabling precision medicine in neonatology, an integrated repository for preterm birth research. <i>Scientific Data</i> , 2018 , 5, 180219	8.2	6
36	Closing the Evidence Gap in Interstitial Lung Disease. The Promise of Real-World Data. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 199, 1061-1065	10.2	6
35	The Atacama skeleton. <i>Genome Research</i> , 2018 , 28, 607-608	9.7	5
34	Tracing diagnosis trajectories over millions of patients reveal an unexpected risk in schizophrenia. <i>Scientific Data</i> , 2019 , 6, 201	8.2	5
33	Androgen-deprivation therapy and SARS-CoV-2 in men with prostate cancer: findings from the University of California Health System registry. <i>Annals of Oncology</i> , 2021 , 32, 678-679	10.3	5
32	Age- and Sex-Associated Variations in the Sensitivity of Serological Tests Among Individuals Infected With SARS-CoV-2. <i>JAMA Network Open</i> , 2021 , 4, e210337	10.4	5
31	Open data informatics and data repurposing for IBD. <i>Nature Reviews Gastroenterology and Hepatology</i> , 2018 , 15, 715-716	24.2	4
30	Application of Machine Learning for Cytometry Data.. <i>Frontiers in Immunology</i> , 2021 , 12, 787574	8.4	4

29	Embedding electronic health records onto a knowledge network recognizes prodromal features of multiple sclerosis and predicts diagnosis.. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021 ,	8.6	4
28	Trials and Tribulations-11 Reasons Why We Need to Promote Clinical Trials Data Sharing. <i>JAMA Network Open</i> , 2021 , 4, e2035043	10.4	4
27	Knowledge Network Embedding of Transcriptomic Data from Spaceflown Mice Uncovers Signs and Symptoms Associated with Terrestrial Diseases. <i>Life</i> , 2021 , 11,	3	4
26	RImmPort: an R/Bioconductor package that enables ready-for-analysis immunology research data. <i>Bioinformatics</i> , 2017 , 33, 1101-1103	7.2	3
25	It takes a genome to understand a village: Population scale precision medicine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12344-12346	11.5	3
24	Explanatory Model of Dry Eye Disease Using Health and Nutrition Examinations: Machine Learning and Network-Based Factor Analysis From a National Survey. <i>JMIR Medical Informatics</i> , 2020 , 8, e16153	3.6	3
23	Meta-analysis of Cytometry Data Reveals Racial Differences in Immune Cells		3
22	Rethinking PICO in the Machine Learning Era: ML-PICO. <i>Applied Clinical Informatics</i> , 2021 , 12, 407-416	3.1	3
21	Integrating Clinical Phenotype and Gene Expression Data to Prioritize Novel Drug Uses. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2016 , 5, 599-607	4.5	3
20	Open challenges in developing digital therapeutics in the United States 2022 , 1, e0000008		2
19	Accuracy of medical billing data against the electronic health record in the measurement of colorectal cancer screening rates. <i>BMJ Open Quality</i> , 2020 , 9,	1.9	2
18	Quantifying Variation in Treatment Utilization for Type 2 Diabetes Across Five Major University of California Health Systems. <i>Diabetes Care</i> , 2021 , 44, 908-914	14.6	2
17	A pilot study showing a stronger H1N1 influenza vaccination response during pregnancy in women who subsequently deliver preterm. <i>Journal of Reproductive Immunology</i> , 2019 , 132, 16-20	4.2	1
16	Heterogeneity of Diabetes: eCells, Phenotypes, and Precision Medicine: Proceedings of an International Symposium of the Canadian Institutes of Health Research, Institute of Nutrition, Metabolism and Diabetes and the U.S. National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases. <i>Diabetes Care</i> , 2021 ,	14.6	1
15	Postoperative delirium prediction using machine learning models and preoperative electronic health record data.. <i>BMC Anesthesiology</i> , 2022 , 22, 8	2.4	1
14	Accuracy of Medical Billing Data Against the Electronic Health Record in the Measurement of Colorectal Cancer Screening Rates		1
13	A Comparison of the Randomized Clinical Trial Efficacy and Real-World Effectiveness of Tofacitinib for the Treatment of Inflammatory Bowel Disease: A Cohort Study		1
12	CovidCounties - an interactive, real-time tracker of the COVID-19 pandemic at the level of US counties 2020 ,		1

11	The 10,000 Immunomes Project: A resource for human immunology		1
10	Tumor cell-adipocyte gap junctions activate lipolysis and are essential for breast tumorigenesis		1
9	Utility of routinely collected electronic health records data to support effectiveness evaluations in inflammatory bowel disease: a pilot study of tofacitinib. <i>BMJ Health and Care Informatics</i> , 2021 , 28,	2.6	1
8	Impact of Different Approaches to Preparing Notes for Analysis With Natural Language Processing on the Performance of Prediction Models in Intensive Care 2021 , 3, e0450		1
7	Five-year pediatric use of a digital wearable fitness device: lessons from a pilot case study. <i>JAMIA Open</i> , 2021 , 4, ooab054	2.9	1
6	Deep learning from multiple experts improves identification of amyloid neuropathologies.. <i>Acta Neuropathologica Communications</i> , 2022 , 10, 66	7.3	1
5	Systematic identification of ACE2 expression modulators reveals cardiomyopathy as a risk factor for mortality in COVID-19 patients.. <i>Genome Biology</i> , 2022 , 23, 15	18.3	0
4	Opal: an implementation science tool for machine learning clinical decision support in anesthesia. <i>Journal of Clinical Monitoring and Computing</i> , 2021 , 1	2	0
3	Opportunities and Challenges in Democratizing Immunology Datasets. <i>Frontiers in Immunology</i> , 2021 , 12, 647536	8.4	0
2	Big Data in Nephrology. <i>Nature Reviews Nephrology</i> , 2021 , 17, 676-687	14.9	0
1	Synergy Between Kit Ligand (KL) and IL-4 In Mast Cells Is Mediated by Cross-Receptor Interactions In Lipid Rafts.. <i>Blood</i> , 2010 , 116, 1564-1564	2.2	