

Guanghua Xiao

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

3,833
citations

126907

33
h-index

144013

57
g-index

97
all docs

97
docs citations

97
times ranked

8964
citing authors

#	ARTICLE	IF	CITATIONS
1	A community computational challenge to predict the activity of pairs of compounds. <i>Nature Biotechnology</i> , 2014, 32, 1213-1222.	17.5	264
2	Pathology Image Analysis Using Segmentation Deep Learning Algorithms. <i>American Journal of Pathology</i> , 2019, 189, 1686-1698.	3.8	232
3	A 12-Gene Set Predicts Survival Benefits from Adjuvant Chemotherapy in Non-Small Cell Lung Cancer Patients. <i>Clinical Cancer Research</i> , 2013, 19, 1577-1586.	7.0	226
4	Comparing Statistical Methods for Constructing Large Scale Gene Networks. <i>PLoS ONE</i> , 2012, 7, e29348.	2.5	156
5	Artificial Intelligence in Lung Cancer Pathology Image Analysis. <i>Cancers</i> , 2019, 11, 1673.	3.7	152
6	Comprehensive Computational Pathological Image Analysis Predicts Lung Cancer Prognosis. <i>Journal of Thoracic Oncology</i> , 2017, 12, 501-509.	1.1	138
7	Development and Validation of a Nomogram Prognostic Model for SCLC Patients. <i>Journal of Thoracic Oncology</i> , 2018, 13, 1338-1348.	1.1	138
8	Beclin 2 Functions in Autophagy, Degradation of G Protein-Coupled Receptors, and Metabolism. <i>Cell</i> , 2013, 154, 1085-1099.	28.9	130
9	Increased autophagy blocks HER2-mediated breast tumorigenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4176-4181.	7.1	106
10	Decreased BECN1 mRNA Expression in Human Breast Cancer is Associated With Estrogen Receptor-Negative Subtypes and Poor Prognosis. <i>EBioMedicine</i> , 2015, 2, 255-263.	6.1	95
11	Prediction of human population responses to toxic compounds by a collaborative competition. <i>Nature Biotechnology</i> , 2015, 33, 933-940.	17.5	88
12	Computational Staining of Pathology Images to Study the Tumor Microenvironment in Lung Cancer. <i>Cancer Research</i> , 2020, 80, 2056-2066.	0.9	88
13	Review of Biological Network Data and Its Applications. <i>Genomics and Informatics</i> , 2013, 11, 200.	0.8	79
14	LCE: an open web portal to explore gene expression and clinical associations in lung cancer. <i>Oncogene</i> , 2019, 38, 2551-2564.	5.9	78
15	Comprehensive analysis of lung cancer pathology images to discover tumor shape and boundary features that predict survival outcome. <i>Scientific Reports</i> , 2018, 8, 10393.	3.3	77
16	Validation of a Serum Screen for Alzheimer's Disease Across Assay Platforms, Species, and Tissues. <i>Journal of Alzheimer's Disease</i> , 2014, 42, 1325-1335.	2.6	73
17	Crowdsourced assessment of common genetic contribution to predicting anti-TNF treatment response in rheumatoid arthritis. <i>Nature Communications</i> , 2016, 7, 12460.	12.8	73
18	eIF5B drives integrated stress response-dependent translation of PD-L1 in lung cancer. <i>Nature Cancer</i> , 2020, 1, 533-545.	13.2	73

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19	Enhanced construction of gene regulatory networks using hub gene information. BMC Bioinformatics, 2017, 18, 186.	2.6	71
20	KDM4/JMJD2 Histone Demethylase Inhibitors Block Prostate Tumor Growth by Suppressing the Expression of AR and MYB-Regulated Genes. Chemistry and Biology, 2015, 22, 1185-1196.	6.0	66
21	ConvPath: A software tool for lung adenocarcinoma digital pathological image analysis aided by a convolutional neural network. EBioMedicine, 2019, 50, 103-110.	6.1	66
22	Design and bioinformatics analysis of genome-wide CLIP experiments. Nucleic Acids Research, 2015, 43, 5263-5274.	14.5	65
23	Evaluation of the 7th and 8th editions of the AJCC/UICC TNM staging systems for lung cancer in a large North American cohort. Oncotarget, 2017, 8, 66784-66795.	1.8	63
24	Sorting nexin 5 mediates virus-induced autophagy and immunity. Nature, 2021, 589, 456-461.	27.8	61
25	A comparative study of rank aggregation methods for partial and top ranked lists in genomic applications. Briefings in Bioinformatics, 2019, 20, 178-189.	6.5	56
26	Mice With Increased Numbers of Polyploid Hepatocytes Maintain Regenerative Capacity But Develop Fewer Hepatocellular Carcinomas Following Chronic Liver Injury. Gastroenterology, 2020, 158, 1698-1712.e14.	1.3	55
27	Autophagy is required for G1/G0 quiescence in response to nitrogen starvation in <i>Saccharomyces cerevisiae</i> . Autophagy, 2014, 10, 1702-1711.	9.1	54
28	VAMPr: VAriant Mapping and Prediction of antibiotic resistance via explainable features and machine learning. PLoS Computational Biology, 2020, 16, e1007511.	3.2	50
29	Tumor-suppressor function of Beclin 1 in breast cancer cells requires E-cadherin. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	50
30	TLR9 and beclin-1 crosstalk regulates muscle AMPK activation in exercise. Nature, 2020, 578, 605-609.	27.8	46
31	Cell-autonomous immune gene expression is repressed in pulmonary neuroendocrine cells and small cell lung cancer. Communications Biology, 2021, 4, 314.	4.4	44
32	SHOX2 is a Potent Independent Biomarker to Predict Survival of WHO Grade II-III Diffuse Gliomas. EBioMedicine, 2016, 13, 80-89.	6.1	43
33	Multisite evaluations of a T2 relaxation-under-spin-tagging (TRUST) MRI technique to measure brain oxygenation. Magnetic Resonance in Medicine, 2016, 75, 680-687.	3.0	42
34	Interaction between the autophagy protein Beclin 1 and Na ⁺ ,K ⁺ -ATPase during starvation, exercise, and ischemia. JCI Insight, 2020, 5, .	5.0	37
35	The role of homeostatic regulation between tumor suppressor DAB2IP and oncogenic Skp2 in prostate cancer growth. Oncotarget, 2014, 5, 6425-6436.	1.8	35
36	Genetic and Epigenetic Features of Rapidly Progressing IDH-Mutant Astrocytomas. Journal of Neuropathology and Experimental Neurology, 2018, 77, 542-548.	1.7	34

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37	Automatic extraction of cell nuclei from H&E-stained histopathological images. <i>Journal of Medical Imaging</i> , 2017, 4, 027502.	1.5	32
38	Microvessel prediction in H&E Stained Pathology Images using fully convolutional neural networks. <i>BMC Bioinformatics</i> , 2018, 19, 64.	2.6	32
39	Histone lysine demethylase KDM4B regulates the alternative splicing of the androgen receptor in response to androgen deprivation. <i>Nucleic Acids Research</i> , 2019, 47, 11623-11636.	14.5	30
40	GeNeCK: a web server for gene network construction and visualization. <i>BMC Bioinformatics</i> , 2019, 20, 12.	2.6	29
41	A permutation-based non-parametric analysis of CRISPR screen data. <i>BMC Genomics</i> , 2017, 18, 545.	2.8	26
42	Dysfunctional adaptive immune response in adolescents and young adults with suicide behavior. <i>Psychoneuroendocrinology</i> , 2020, 111, 104487.	2.7	26
43	Ensemble-Based Network Aggregation Improves the Accuracy of Gene Network Reconstruction. <i>PLoS ONE</i> , 2014, 9, e106319.	2.5	26
44	A deep learning-based model for screening and staging pneumoconiosis. <i>Scientific Reports</i> , 2021, 11, 2201.	3.3	24
45	A Model-Based Approach to Identify Binding Sites in CLIP-Seq Data. <i>PLoS ONE</i> , 2014, 9, e93248.	2.5	22
46	STING controls energy stress-induced autophagy and energy metabolism via STX17. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	21
47	Modeling Three-Dimensional Chromosome Structures Using Gene Expression Data. <i>Journal of the American Statistical Association</i> , 2011, 106, 61-72.	3.1	20
48	Identifying CDKN3 Gene Expression as a Prognostic Biomarker in Lung Adenocarcinoma via Meta-analysis. <i>Cancer Informatics</i> , 2015, 14s2, CIN.S17287.	1.9	19
49	A Community Challenge for Inferring Genetic Predictors of Gene Essentialities through Analysis of a Functional Screen of Cancer Cell Lines. <i>Cell Systems</i> , 2017, 5, 485-497.e3.	6.2	19
50	Type and case volume of health care facility influences survival and surgery selection in cases with early-stage non-small cell lung cancer. <i>Cancer</i> , 2019, 125, 4252-4259.	4.1	19
51	Modeling Three-Dimensional Chromosome Structures Using Gene Expression Data. <i>Journal of the American Statistical Association</i> , 2011, 106, 61-72.	3.1	19
52	A Bayesian hidden Potts mixture model for analyzing lung cancer pathology images. <i>Biostatistics</i> , 2019, 20, 565-581.	1.5	17
53	A Bayesian zero-inflated negative binomial regression model for the integrative analysis of microbiome data. <i>Biostatistics</i> , 2021, 22, 522-540.	1.5	17
54	Large-Scale Profiling of RBP-circRNA Interactions from Public CLIP-Seq Datasets. <i>Genes</i> , 2020, 11, 54.	2.4	17

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55	Main bronchus location is a predictor for metastasis and prognosis in lung adenocarcinoma: A large cohort analysis. <i>Lung Cancer</i> , 2018, 120, 22-26.	2.0	16
56	Adaptive Prediction Model in Prospective Molecular Signature-Based Clinical Studies. <i>Clinical Cancer Research</i> , 2014, 20, 531-539.	7.0	15
57	MB-GAN: Microbiome Simulation via Generative Adversarial Network. <i>GigaScience</i> , 2021, 10, .	6.4	14
58	Systematic Analysis of Gene Expression in Lung Adenocarcinoma and Squamous Cell Carcinoma with a Case Study of FAM83A and FAM83B. <i>Cancers</i> , 2019, 11, 886.	3.7	13
59	Validation of the 12-gene Predictive Signature for Adjuvant Chemotherapy Response in Lung Cancer. <i>Clinical Cancer Research</i> , 2019, 25, 150-157.	7.0	13
60	HARMONIES: A Hybrid Approach for Microbiome Networks Inference via Exploiting Sparsity. <i>Frontiers in Genetics</i> , 2020, 11, 445.	2.3	12
61	Statistical completion of a partially identified graph with applications for the estimation of gene regulatory networks. <i>Biostatistics</i> , 2015, 16, 670-685.	1.5	11
62	Lung Cancer Pathological Image Analysis Using a Hidden Potts Model. <i>Cancer Informatics</i> , 2017, 16, 117693511771191.	1.9	10
63	Development and Validation of a Nomogram Prognostic Model for Patients With Advanced Non-Small-Cell Lung Cancer. <i>Cancer Informatics</i> , 2019, 18, 117693511983754.	1.9	10
64	Deep Learning of Rhabdomyosarcoma Pathology Images for Classification and Survival Outcome Prediction. <i>American Journal of Pathology</i> , 2022, 192, 917-925.	3.8	10
65	DIGREM: an integrated web-based platform for detecting effective multi-drug combinations. <i>Bioinformatics</i> , 2019, 35, 1792-1794.	4.1	8
66	Development and Validation of a Pathology Image Analysis-based Predictive Model for Lung Adenocarcinoma Prognosis - A Multi-cohort Study. <i>Scientific Reports</i> , 2019, 9, 6886.	3.3	8
67	Bayesian multiple instance regression for modeling immunogenic neoantigens. <i>Statistical Methods in Medical Research</i> , 2020, 29, 3032-3047.	1.5	8
68	Evaluating short-term forecasting of COVID-19 cases among different epidemiological models under a Bayesian framework. <i>GigaScience</i> , 2021, 10, .	6.4	8
69	A Bayesian mark interaction model for analysis of tumor pathology images. <i>Annals of Applied Statistics</i> , 2019, 13, 1708-1732.	1.1	8
70	iScreen: Image-Based High-Content RNAi Screening Analysis Tools. <i>Journal of Biomolecular Screening</i> , 2015, 20, 998-1002.	2.6	6
71	A two-stage approach of gene network analysis for high-dimensional heterogeneous data. <i>Biostatistics</i> , 2018, 19, 216-232.	1.5	6
72	Development of a Data Model and Data Commons for Germ Cell Tumors. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 555-566.	2.1	6

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73	Usefulness of a Simple Algorithm to Identify Hypertensive Patients Who Benefit from Intensive Blood Pressure Lowering. <i>American Journal of Cardiology</i> , 2018, 122, 248-254.	1.6	5
74	Molecular Markers of Carcinogenesis for Risk Stratification of Individuals with Colorectal Polyps: A Caseâ€“Control Study. <i>Cancer Prevention Research</i> , 2014, 7, 1023-1034.	1.5	4
75	Assessing consistency across functional screening datasets in cancer cells. <i>Bioinformatics</i> , 2021, 37, 4540-4547.	4.1	4
76	Fused lasso regression for identifying differential correlations in brain connectome graphs. <i>Statistical Analysis and Data Mining</i> , 2018, 11, 203-226.	2.8	3
77	Molecular differences across invasive lung adenocarcinoma morphological subgroups. <i>Translational Lung Cancer Research</i> , 2020, 9, 1029-1040.	2.8	3
78	Bayesian Joint Analysis of Gene Expression Data and Gene Functional Annotations. <i>Statistics in Biosciences</i> , 2012, 4, 300-318.	1.2	2
79	SCT Promoter Methylation Is a Highly Discriminative Biomarker for Lung and Many Other Cancers. <i>IEEE Life Sciences Letters</i> , 2015, 1, 30-33.	1.2	2
80	Integrating germline and somatic genetics to identify genes associated with lung cancer. <i>Genetic Epidemiology</i> , 2020, 44, 233-247.	1.3	2
81	Integrative Analysis of Gene Networks and Their Application to Lung Adenocarcinoma Studies. <i>Cancer Informatics</i> , 2017, 16, 117693511769077.	1.9	1
82	MetaPrism: A versatile toolkit for joint taxa/gene analysis of metagenomic sequencing data. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	1
83	Lung Cancer Computational Biology and Resources. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2022, 12, a038273.	6.2	1
84	RCRdiff: A fully integrated Bayesian method for differential expression analysis using raw NanoString nCounter data. <i>Statistics in Medicine</i> , 2022, 41, 665-680.	1.6	1