Jeffrey H Chuang

List of Publications by Year
in descending order

53 papers	**2,700** citations	279487 **23** h-index	205818 **48** g-index
70 all docs	**70** docs citations	**70** times ranked	**4489** citing authors

#	Article	IF	Citations
1	Ribosome stalling induced by mutation of a CNS-specific tRNA causes neurodegeneration. Science, 2014, 345, 455-459.	6.0	378
2	Longitudinal molecular trajectories of diffuse glioma in adults. Nature, 2019, 576, 112-120.	13.7	320
3	Anomalous dynamics of translocation. Physical Review E, 2001, 65, 011802.	0.8	267
4	Activation of GCN2 kinase by ribosome stalling links translation elongation with translation initiation. ELife, 2016, 5, .	2.8	139
5	A human breast cancer-derived xenograft and organoid platform for drug discovery and precision oncology. Nature Cancer, 2022, 3, 232-250.	5.7	133
6	Conservation of copy number profiles during engraftment and passaging of patient-derived cancer xenografts. Nature Genetics, 2021, 53, 86-99.	9.4	118
7	Deep learning-based cross-classifications reveal conserved spatial behaviors within tumor histological images. Nature Communications, 2020, 11, 6367.	5.8	108
8	The tandem duplicator phenotype as a distinct genomic configuration in cancer. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2373-82.	3.3	103
9	Multiple point adsorption in a heteropolymer gel and the Tanaka approach to imprinting: experiment and theory. Progress in Polymer Science, 2003, 28, 1489-1515.	11.8	78
10	Effect of Reversible Cross-linker, N,N′-Bis(acryloyl)cystamine, on Calcium Ion Adsorption by Imprinted Gels. Langmuir, 2001, 17, 4431-4436.	1.6	67
11	Deep learning trained on hematoxylin and eosin tumor region of Interest predicts HER2 status and trastuzumab treatment response in HER2+ breast cancer. Modern Pathology, 2022, 35, 44-51.	2.9	61
12	CCNE1 amplification is associated with poor prognosis in patients with triple negative breast cancer. BMC Cancer, 2019, 19, 96.	1.1	60
13	Mutations in DNA repair genes are associated with increased neoantigen burden and a distinct immunophenotype in lung squamous cell carcinoma. Scientific Reports, 2019, 9, 3235.	1.6	60
14	Comprehensive characterization of 536 patient-derived xenograft models prioritizes candidates for targeted treatment. Nature Communications, 2021, 12, 5086.	5.8	58
15	BMP signaling mediates glioma stem cell quiescence and confers treatment resistance in glioblastoma. Scientific Reports, 2019, 9, 14569.	1.6	57
16	Frustrations in Polymer Conformation in Gels and their Minimization through Molecular Imprinting. Physical Review Letters, 2000, 85, 5000-5003.	2.9	54
17	CloudNeo: a cloud pipeline for identifying patient-specific tumor neoantigens. Bioinformatics, 2017, 33, 3110-3112.	1.8	51
18	Mutations in DNA repair genes are associated with increased neo-antigen load and activated T cell infiltration in lung adenocarcinoma. Oncotarget, 2018, 9, 7949-7960.	0.8	49

#	Article	IF	Citations
19	Molecular Biology and Evolution of Cancer: From Discovery to Action. Molecular Biology and Evolution, 2020, 37, 320-326.	3.5	43
20	Systematic Establishment of Robustness and Standards in Patient-Derived Xenograft Experiments and Analysis. Cancer Research, 2020, 80, 2286-2297.	0.4	43
21	Expression of the Neuronal tRNA n-Tr20 Regulates Synaptic Transmission and Seizure Susceptibility. Neuron, 2020, 108, 193-208.e9.	3.8	38
22	Topological repulsion between polymer globules. Journal of Chemical Physics, 2000, 112, 6434-6442.	1.2	36
23	Genomic data analysis workflows for tumors from patient-derived xenografts (PDXs): challenges and guidelines. BMC Medical Genomics, 2019, 12, 92.	0.7	29
24	GTPBP1 resolves paused ribosomes to maintain neuronal homeostasis. ELife, 2020, 9, .	2.8	28
25	Uncertainties in tumor allele frequencies limit power to infer evolutionary pressures. Nature Genetics, 2017, 49, 1288-1289.	9.4	27
26	Clinical and Immunological Implications of Frameshift Mutations in Lung Cancer. Journal of Thoracic Oncology, 2019, 14, 1807-1817.	0.5	27
27	Genetic Architectures of Quantitative Variation in RNA Editing Pathways. Genetics, 2016, 202, 787-798.	1.2	25
28	The <i>Clp1</i> R140H mutation alters tRNA metabolism and mRNA 3â€² processing in mouse models of pontocerebellar hypoplasia. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	23
29	Whole-exome sequencing capture kit biases yield false negative mutation calls in TCGA cohorts. PLoS ONE, 2018, 13, e0204912.	1.1	21
30	Distribution-based measures of tumor heterogeneity are sensitive to mutation calling and lack strong clinical predictive power. Scientific Reports, 2018, 8, 11445.	1.6	17
31	High-resolution deconstruction of evolution induced by chemotherapy treatments in breast cancer xenografts. Scientific Reports, 2018, 8, 17937.	1.6	15
32	Defects in translation-dependent quality control pathways lead to convergent molecular and neurodevelopmental pathology. ELife, 2021, 10, .	2.8	15
33	Transcriptional profiling of macrophages in situ in metastatic melanoma reveals localization-dependent phenotypes and function. Cell Reports Medicine, 2022, 3, 100621.	3.3	15
34	Free Energy Self-Averaging in Protein-Sized Random Heteropolymers. Physical Review Letters, 2001, 87, 078104.	2.9	13
35	Unstable Genome and Transcriptome Dynamics during Tumor Metastasis Contribute to Therapeutic Heterogeneity in Colorectal Cancers. Clinical Cancer Research, 2019, 25, 2821-2834.	3.2	12
36	Fostering bioinformatics education through skill development of professors: Big Genomic Data Skills Training for Professors. PLoS Computational Biology, 2019, 15, e1007026.	1.5	12

#	ARTICLE	IF	CITATIONS
37	Deep learning features encode interpretable morphologies within histological images. Scientific Reports, 2022, 12, .	1.6	10
38	Functional chromatin features are associated with structural mutations in cancer. BMC Genomics, 2014, 15, 1013.	1.2	9
39	MIA-Sig: multiplex chromatin interaction analysis by signal processing and statistical algorithms. Genome Biology, 2019, 20, 251.	3.8	8
40	Alterations in the Rho pathway contribute to Epstein-Barr virusâ€"induced lymphomagenesis in immunosuppressed environments. Blood, 2018, 131, 1931-1941.	0.6	7
41	PDXNet portal: patient-derived Xenograft model, data, workflow and tool discovery. NAR Cancer, 2022, 4, zcac014.	1.6	7
42	Treating Cancer as an Invasive Species. Molecular Cancer Research, 2020, 18, 20-26.	1.5	6
43	SARNAclust: Semi-automatic detection of RNA protein binding motifs from immunoprecipitation data. PLoS Computational Biology, 2018, 14, e1006078.	1.5	6
44	Human KIT+ myeloid cells facilitate visceral metastasis by melanoma. Journal of Experimental Medicine, 2021, 218, .	4.2	5
45	The effect of blurring on lung cancer subtype classification accuracy of convolutional neural networks. , 2020, , .		5
46	Cancer Stem Cells, not Bulk Tumor Cells, Determine Mechanisms of Resistance to SMO Inhibitors. Cancer Research Communications, 2022, 2, 402-416.	0.7	2
47	pyBedGraph: a python package for fast operations on 1D genomic signal tracks. Bioinformatics, 2020, 36, 3234-3235.	1.8	1
48	Integrative Deep Learning for PanCancer Molecular Subtype Classification Using Histopathological Images and RNAseq Data. , 2020, , .		1
49	Abstract 197: MONE: A construction for interpreting deep learning features in pathology slides. , 2021, , .		0
50	Abstract 3009: A systematic review of the tumor growth metrics of patient-derived xenograft (PDX) models in the literature and in NCI PDXNet centers. , 2021, , .		0
51	Imprinting Using Smart Polymers. , 2007, , 211-245.		0
52	Smart Polymers: Imprinting. , 0, , 7396-7414.		0
53	Smart Polymers: Imprinting. , 2017, , 1424-1442.		0