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	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
2	A human breast cancer-derived xenograft and organoid platform for drug discovery and precision oncology. Nature Cancer, 2022, 3, 232-250.	5.7	133
3	Transcriptional profiling of macrophages in situ in metastatic melanoma reveals localization-dependent phenotypes and function. Cell Reports Medicine, 2022, 3, 100621.	3.3	15
4	PDXNet portal: patient-derived Xenograft model, data, workflow and tool discovery. NAR Cancer, 2022, 4, zcac014.	1.6	7
5	Cancer Stem Cells, not Bulk Tumor Cells, Determine Mechanisms of Resistance to SMO Inhibitors. Cancer Research Communications, 2022, 2, 402-416.	0.7	2
6	Deep learning features encode interpretable morphologies within histological images. Scientific Reports, 2022, 12, .	1.6	10
7	Conservation of copy number profiles during engraftment and passaging of patient-derived cancer xenografts. Nature Genetics, 2021, 53, 86-99.	9.4	118
8	Defects in translation-dependent quality control pathways lead to convergent molecular and neurodevelopmental pathology. ELife, 2021, 10, .	2.8	15
9	Human KIT+ myeloid cells facilitate visceral metastasis by melanoma. Journal of Experimental Medicine, 2021, 218, .	4.2	5
10	Abstract 197: MONE: A construction for interpreting deep learning features in pathology slides. , 2021, , .		0
11	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
12	Comprehensive characterization of 536 patient-derived xenograft models prioritizes candidates for targeted treatment. Nature Communications, 2021, 12, 5086.	5.8	58
13	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
14	Treating Cancer as an Invasive Species. Molecular Cancer Research, 2020, 18, 20-26.	1.5	6
15	Molecular Biology and Evolution of Cancer: From Discovery to Action. Molecular Biology and Evolution, 2020, 37, 320-326.	3.5	43
16	Expression of the Neuronal tRNA n-Tr20 Regulates Synaptic Transmission and Seizure Susceptibility. Neuron, 2020, 108, 193-208.e9.	3.8	38
17	Deep learning-based cross-classifications reveal conserved spatial behaviors within tumor histological images. Nature Communications, 2020, 11, 6367.	5.8	108
18	pyBedGraph: a python package for fast operations on 1D genomic signal tracks. Bioinformatics, 2020, 36, 3234-3235.	1.8	1

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19	Systematic Establishment of Robustness and Standards in Patient-Derived Xenograft Experiments and Analysis. Cancer Research, 2020, 80, 2286-2297.	0.4	43
20	The effect of blurring on lung cancer subtype classification accuracy of convolutional neural networks. , 2020, , .		5
21	GTPBP1 resolves paused ribosomes to maintain neuronal homeostasis. ELife, 2020, 9, .	2.8	28
22	Integrative Deep Learning for PanCancer Molecular Subtype Classification Using Histopathological Images and RNAseq Data. , 2020, , .		1
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	BMP signaling mediates glioma stem cell quiescence and confers treatment resistance in glioblastoma. Scientific Reports, 2019, 9, 14569.	1.6	57
25	Clinical and Immunological Implications of Frameshift Mutations in Lung Cancer. Journal of Thoracic Oncology, 2019, 14, 1807-1817.	0.5	27
26	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
27	CCNE1 amplification is associated with poor prognosis in patients with triple negative breast cancer. BMC Cancer, 2019, 19, 96.	1.1	60
28	Fostering bioinformatics education through skill development of professors: Big Genomic Data Skills Training for Professors. PLoS Computational Biology, 2019, 15, e1007026.	1.5	12
29	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
30	Longitudinal molecular trajectories of diffuse glioma in adults. Nature, 2019, 576, 112-120.	13.7	320
31	MIA-Sig: multiplex chromatin interaction analysis by signal processing and statistical algorithms. Genome Biology, 2019, 20, 251.	3.8	8
32	Alterations in the Rho pathway contribute to Epstein-Barr virus–induced lymphomagenesis in immunosuppressed environments. Blood, 2018, 131, 1931-1941.	0.6	7
33	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
34	High-resolution deconstruction of evolution induced by chemotherapy treatments in breast cancer xenografts. Scientific Reports, 2018, 8, 17937.	1.6	15
35	Whole-exome sequencing capture kit biases yield false negative mutation calls in TCGA cohorts. PLoS ONE, 2018, 13, e0204912.	1.1	21
36	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

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37	SARNAclust: Semi-automatic detection of RNA protein binding motifs from immunoprecipitation data. PLoS Computational Biology, 2018, 14, e1006078.	1.5	6
38	CloudNeo: a cloud pipeline for identifying patient-specific tumor neoantigens. Bioinformatics, 2017, 33, 3110-3112.	1.8	51
39	Uncertainties in tumor allele frequencies limit power to infer evolutionary pressures. Nature Genetics, 2017, 49, 1288-1289.	9.4	27
40	Smart Polymers: Imprinting. , 2017, , 1424-1442.		0
41	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
42	Genetic Architectures of Quantitative Variation in RNA Editing Pathways. Genetics, 2016, 202, 787-798.	1.2	25
43	Activation of GCN2 kinase by ribosome stalling links translation elongation with translation initiation. ELife, 2016, 5, .	2.8	139
44	Functional chromatin features are associated with structural mutations in cancer. BMC Genomics, 2014, 15, 1013.	1.2	9
45	Ribosome stalling induced by mutation of a CNS-specific tRNA causes neurodegeneration. Science, 2014, 345, 455-459.	6.0	378
46	Imprinting Using Smart Polymers. , 2007, , 211-245.		0
47	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
48	Effect of Reversible Cross-linker, N,Nâ€˜-Bis(acryloyl)cystamine, on Calcium Ion Adsorption by Imprinted Gels. Langmuir, 2001, 17, 4431-4436.	1.6	67
49	Anomalous dynamics of translocation. Physical Review E, 2001, 65, 011802.	0.8	267
50	Free Energy Self-Averaging in Protein-Sized Random Heteropolymers. Physical Review Letters, 2001, 87, 078104.	2.9	13
51	Topological repulsion between polymer globules. Journal of Chemical Physics, 2000, 112, 6434-6442.	1.2	36
52	Frustrations in Polymer Conformation in Gels and their Minimization through Molecular Imprinting. Physical Review Letters, 2000, 85, 5000-5003.	2.9	54
53	Smart Polymers: Imprinting. , 0, , 7396-7414.		0