Tuo Zhang

List of Publications by Year in descending order

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93	11,684	94269 37	56606 83
papers	citations	h-index	g-index

110	110	110	20397
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Utility of multimodality molecular profiling for pediatric patients with central nervous system tumors. Neuro-Oncology Advances, 2022, 4, vdac031.	0.4	1
2	A dual SHOX2:GFP; MYH6:mCherry knockin hESC reporter line for derivation of human SAN-like cells. IScience, 2022, 25, 104153.	1.9	1
3	Histone variant H3.3 maintains adult haematopoietic stem cell homeostasis by enforcing chromatin adaptability. Nature Cell Biology, 2022, 24, 99-111.	4.6	17
4	Inflammatory responses in the placenta upon SARS-CoV-2 infection late in pregnancy. IScience, 2022, 25, 104223.	1.9	58
5	Differential effects of macrophage subtypes on SARS-CoV-2 infection in a human pluripotent stem cell-derived model. Nature Communications, 2022, 13, 2028.	5.8	34
6	Identification of SARS-CoV-2 inhibitors using lung and colonic organoids. Nature, 2021, 589, 270-275.	13.7	389
7	Radiotherapy-exposed CD8+ and CD4+ neoantigens enhance tumor control. Journal of Clinical Investigation, 2021, 131, .	3.9	111
8	An Immuno-Cardiac Model for Macrophage-Mediated Inflammation in COVID-19 Hearts. Circulation Research, 2021, 129, 33-46.	2.0	40
9	Methylation of dual-specificity phosphatase 4 controls cell differentiation. Cell Reports, 2021, 36, 109421.	2.9	17
10	SARS-CoV-2 infection induces beta cell transdifferentiation. Cell Metabolism, 2021, 33, 1577-1591.e7.	7.2	123
11	Cardiomyocytes recruit monocytes upon SARS-CoV-2 infection by secretingÂCCL2. Stem Cell Reports, 2021, 16, 2274-2288.	2.3	37
12	An airway organoid-based screen identifies a role for the HIF1Î±-glycolysis axis in SARS-CoV-2 infection. Cell Reports, 2021, 37, 109920.	2.9	36
13	A retinoic acid receptor Î²2 agonist attenuates transcriptome and metabolome changes underlying nonalcohol-associated fatty liver disease. Journal of Biological Chemistry, 2021, 297, 101331.	1.6	11
14	Targeting Metabolic Vulnerabilities in Primary Effusion Lymphoma Using the Novel Nucleoside Analog 6-Eti. Blood, 2021, 138, 1188-1188.	0.6	0
15	696â€…Single-cell RNA-seq reveals the critical roles of the STING- and MDA5-mediated cytosolic nucleic acid-sensing pathways as well as IFNAR/STAT2 signaling in recombinant MVA-induced antitumor immunity. , 2021, 9, A724-A724.		0
16	VCAM-1 Upregulation Contributes to Insensitivity of Vemurafenib in BRAF-Mutant Thyroid Cancer. Translational Oncology, 2020, 13, 441-451.	1.7	8
17	Combined Metabolomics and Genome-Wide Transcriptomics Analyses Show Multiple HIF1Î±-Induced Changes in Lipid Metabolism in Early Stage Clear Cell Renal Cell Carcinoma. Translational Oncology, 2020, 13, 177-185.	1.7	22
18	Common germline-somatic variant interactions in advanced urothelial cancer. Nature Communications, 2020, 11, 6195.	5.8	21

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19	Adaptable haemodynamic endothelial cells for organogenesis and tumorigenesis. Nature, 2020, 585, 426-432.	13.7	145
20	Tumor derived UBR5 promotes ovarian cancer growth and metastasis through inducing immunosuppressive macrophages. Nature Communications, 2020, 11, 6298.	5.8	82
21	Dextran Sulfate Protects Pancreatic Î²-Cells, Reduces Autoimmunity, and Ameliorates Type 1 Diabetes. Diabetes, 2020, 69, 1692-1707.	0.3	10
22	DNA polymerase Îµ relies on a unique domain for efficient replisome assembly and strand synthesis. Nature Communications, 2020, 11, 2437.	5.8	16
23	A Human Pluripotent Stem Cell-based Platform to Study SARS-CoV-2 Tropism and Model Virus Infection in Human Cells and Organoids. Cell Stem Cell, 2020, 27, 125-136.e7.	5.2	543
24	Mutations in long-lived epithelial stem cells and their clonal progeny in pre-malignant lesions and in oral squamous cell carcinoma. Carcinogenesis, 2020, 41, 1553-1564.	1.3	10
25	Doxycycline-induced exogenous Bmi-1 expression enhances tumor formation in a murine model of oral squamous cell carcinoma. Cancer Biology and Therapy, 2020, 21, 400-411.	1.5	7
26	miR-431 Promotes Metastasis of Pancreatic Neuroendocrine Tumors by Targeting DAB2 Interacting Protein, a Ras GTPase Activating Protein Tumor Suppressor. American Journal of Pathology, 2020, 190, 689-701.	1.9	14
27	Editorial: Bioinformatics Analysis of Single Cell Sequencing Data and Applications in Precision Medicine. Frontiers in Genetics, 2020, 10, 1358.	1.1	11
28	Targeting ubiquitin protein ligase E3 component N-recognin 5 in cancer cells induces a CD8+ T cell mediated immune response. OncoImmunology, 2020, 9, 1746148.	2.1	17
29	Abstract 2263: Characteristics of the interferon-stimulatory DNA cargo of exosomes produced by irradiated breast cancer cells. , 2020, , .		0
30	Abstract 1895: The role of the IFNÎ³ pathway in the development of vemurafenib resistance in BRAFV600Emutant thyroid carcinoma. , 2020, , .		0
31	465â€…Radiotherapy and CTLA-4 blockade expand anti-tumor T cells differentiation states and cooperate with CD40 agonist to induce tumor rejection. , 2020, , .		0
32	Pre- and peri-implantation Zika virus infection impairs fetal development by targeting trophectoderm cells. Nature Communications, 2019, 10, 4155.	5.8	30
33	Integrative Molecular Analysis of Patients With Advanced and Metastatic Cancer. JCO Precision Oncology, 2019, 3, 1-12.	1.5	24
34	The application of precision medicine in diagnosing familial Mediterranean fever. Leukemia and Lymphoma, 2019, 60, 2091-2093.	0.6	0
35	Molecular determinants of nephron vascular specialization in the kidney. Nature Communications, 2019, 10, 5705.	5.8	83
36	Altered Cervical Mucosal Gene Expression and Lower Interleukin 15 Levels in Women With Schistosoma haematobium Infection but Not in Women With Schistosoma mansoni Infection. Journal of Infectious Diseases, 2019, 219, 1777-1785.	1.9	12

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37	Gene Expression Differences in Host Response to Schistosoma haematobium Infection. Infection and Immunity, 2019, 87, .	1.0	10
38	A chemical probe of CARM1 alters epigenetic plasticity against breast cancer cell invasion. ELife, 2019, 8, .	2.8	32
39	The genomic landscape of metastatic clear cell renal cell carcinoma (ccRCC) after treatment with systemic therapy.. Journal of Clinical Oncology, 2019, 37, 675-675.	0.8	0
40	2131-P: Dextran Sulfate and HGF Ameliorate Type 1 Diabetes. Diabetes, 2019, 68, 2131-P.	0.3	2
41	Abstract 4665: Lineage-tracing technology to understand the molecular events in a mouse model of tongue squamous cell carcinoma (SCC) carcinogenesis. , 2019, , .		0
42	Evidence for dispensability of protein kinase R in host control of tuberculosis. European Journal of Immunology, 2018, 48, 612-620.	1.6	10
43	Far Upstream Element-Binding Protein 1 Regulates LSD1 Alternative Splicing to Promote Terminal Differentiation of Neural Progenitors. Stem Cell Reports, 2018, 10, 1208-1221.	2.3	28
44	A hPSC-based platform to discover gene-environment interactions that impact human Î²-cell and dopamine neuron survival. Nature Communications, 2018, 9, 4815.	5.8	29
45	Radiotherapy induces responses of lung cancer to CTLA-4 blockade. Nature Medicine, 2018, 24, 1845-1851.	15.2	626
46	Discovery of a periosteal stem cell mediating intramembranous bone formation. Nature, 2018, 562, 133-139.	13.7	426
47	Impaired hematopoiesis and leukemia development in mice with a conditional knock-in allele of a mutant splicing factor gene U2af1. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10437-E10446.	3.3	59
48	Derivation and characterization of a UCP1 reporter human ES cell line. Stem Cell Research, 2018, 30, 12-21.	0.3	5
49	Somatic Mutations in Renal Cyst Epithelium in Autosomal Dominant Polycystic Kidney Disease. Journal of the American Society of Nephrology: JASN, 2018, 29, 2139-2156.	3.0	46
50	Discovery of a drug candidate for GLIS3-associated diabetes. Nature Communications, 2018, 9, 2681.	5.8	48
51	Dried Blood Spot RNA Transcriptomes Correlate with Transcriptomes Derived from Whole Blood RNA. American Journal of Tropical Medicine and Hygiene, 2018, 98, 1541-1546.	0.6	16
52	Abstract 2481: Loss of FUBP1 impairs terminal neuronal differentiation and predisposes neural progenitors for transformation. , 2018, , .		0
53	Targeting the PI3K/AKT pathway via GLI1 inhibition enhanced the drug sensitivity of acute myeloid leukemia cells. Scientific Reports, 2017, 7, 40361.	1.6	41
54	EthSEQ: ethnicity annotation from whole exome sequencing data. Bioinformatics, 2017, 33, 2402-2404.	1.8	31

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55	Targeting Autocrine CCL5â€“CCR5 Axis Reprograms Immunosuppressive Myeloid Cells and Reinvigorates Antitumor Immunity. Cancer Research, 2017, 77, 2857-2868.	0.4	111
56	Colonic organoids derived from human induced pluripotent stem cells for modeling colorectal cancer and drug testing. Nature Medicine, 2017, 23, 878-884.	15.2	285
57	Using hESCs to Probe the Interaction of the Diabetes-Associated Genes CDKAL1 and MT1E. Cell Reports, 2017, 19, 1512-1521.	2.9	32
58	E3 Ubiquitin Ligase UBR5 Drives the Growth and Metastasis of Triple-Negative Breast Cancer. Cancer Research, 2017, 77, 2090-2101.	0.4	87
59	ROCKII inhibition promotes the maturation of human pancreatic beta-like cells. Nature Communications, 2017, 8, 298.	5.8	69
60	MP48-18 GERMLINE DNA REPAIR SINGLE NUCLEOTIDE POLYMORPHISMS IN UROTHELIAL CANCER PATIENTS.. Journal of Urology, 2017, 197, .	0.2	1
61	Intrinsic Disorder and Semi-disorder Prediction by SPINE-D. Methods in Molecular Biology, 2017, 1484, 159-174.	0.4	8
62	STEM-33. LOSS OF FUBP1 IMPAIRS TERMINAL NEURONAL DIFFERENTIATION AND PREDISPOSES NEURAL PROGENITORS FOR TRANSFORMATION. Neuro-Oncology, 2017, 19, vi233-vi233.	0.6	0
63	Abstract 1115: Germline single nucleotide polymorphisms in DNA repair genes in urothelial cancer patients. , 2017, , .		2
64	A proangiogenic signaling axis in myeloid cells promotes malignant progression of glioma. Journal of Clinical Investigation, 2017, 127, 1826-1838.	3.9	34
65	Sequenceâ€based prediction of proteinâ€“peptide binding sites using support vector machine. Journal of Computational Chemistry, 2016, 37, 1223-1229.	1.5	81
66	RBP-Jâ€“Regulated miR-182 Promotes TNF-Î±â€“Induced Osteoclastogenesis. Journal of Immunology, 2016, 196, 4977-4986.	0.4	59
67	An Isogenic Human ESC Platform for Functional Evaluation of Genome-wide-Association-Study-Identified Diabetes Genes and Drug Discovery. Cell Stem Cell, 2016, 19, 326-340.	5.2	98
68	N -methylation of a bactericidal compound as a resistance mechanism in Mycobacterium tuberculosis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4523-30.	3.3	88
69	Development and validation of a whole-exome sequencing test for simultaneous detection of point mutations, indels and copy-number alterations for precision cancer care. Npj Genomic Medicine, 2016, 1, .	1.7	68
70	Papillary renal cell carcinoma with a somatic mutation in MET in a patient with autosomal dominant polycystic kidney disease. Cancer Genetics, 2016, 209, 11-20.	0.2	10
71	The metabolic/pH sensor soluble adenylyl cyclase is a tumor suppressor protein. Oncotarget, 2016, 7, 45597-45607.	0.8	19
72	Identification of Ethanol and 4-Nitroquinoline-1-Oxide Induced Epigenetic and Oxidative Stress Markers During Oral Cavity Carcinogenesis. Alcoholism: Clinical and Experimental Research, 2015, 39, 1360-1372.	1.4	27

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73	Whole-Exome Sequencing of Metastatic Cancer and Biomarkers of Treatment Response. JAMA Oncology, 2015, 1, 466.	3.4	264
74	A novel crosstalk between TLR4- and NOD2-mediated signaling in the regulation of intestinal inflammation. Scientific Reports, 2015, 5, 12018.	1.6	36
75	Genome-Wide Profiling of TRACK Kidneys Shows Similarity to the Human ccRCC Transcriptome. Molecular Cancer Research, 2015, 13, 870-878.	1.5	19
76	Pancreatic cancer exosomes initiate pre-metastatic niche formation in the liver. Nature Cell Biology, 2015, 17, 816-826.	4.6	2,064
77	Tumour exosome integrins determine organotropic metastasis. Nature, 2015, 527, 329-335.	13.7	3,688
78	Gene expression profiling signatures for the diagnosis and prevention of oral cavity carcinogenesis-genome-wide analysis using RNA-seq technology. Oncotarget, 2015, 6, 24424-24435.	0.8	24
79	Combination of bexarotene and the retinoid CD1530 reduces murine oral-cavity carcinogenesis induced by the carcinogen 4-nitroquinoline 1-oxide. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8907-8912.	3.3	42
80	Nitrite produced by Mycobacterium tuberculosis in human macrophages in physiologic oxygen impacts bacterial ATP consumption and gene expression. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E4256-65.	3.3	76
81	Intrinsically Semi-disordered State and Its Role in Induced Folding and Protein Aggregation. Cell Biochemistry and Biophysics, 2013, 67, 1193-1205.	0.9	57
82	SPINE-D: Accurate Prediction of Short and Long Disordered Regions by a Single Neural-Network Based Method. Journal of Biomolecular Structure and Dynamics, 2012, 29, 799-813.	2.0	150
83	SPINE X: Improving protein secondary structure prediction by multistep learning coupled with prediction of solvent accessible surface area and backbone torsion angles. Journal of Computational Chemistry, 2012, 33, 259-267.	1.5	209
84	Determination of protein folding kinetic types using sequence and predicted secondary structure and solvent accessibility. Amino Acids, 2012, 42, 271-283.	1.2	18
85	In-silico prediction of disorder content using hybrid sequence representation. BMC Bioinformatics, 2011, 12, 245.	1.2	45
86	Critical assessment of high-throughput standalone methods for secondary structure prediction. Briefings in Bioinformatics, 2011, 12, 672-688.	3.2	53
87	Analysis and Prediction of RNA-Binding Residues Using Sequence, Evolutionary Conservation, and Predicted Secondary Structure and Solvent Accessibility. Current Protein and Peptide Science, 2010, 11, 609-628.	0.7	50
88	Accurate prediction of protein folding rates from sequence and sequence-derived residue flexibility and solvent accessibility. Proteins: Structure, Function and Bioinformatics, 2010, 78, NA-NA.	1.5	25
89	Fluctuations of backbone torsion angles obtained from NMRâ€determined structures and their prediction. Proteins: Structure, Function and Bioinformatics, 2010, 78, 3353-3362.	1.5	27
90	On the relation between residue flexibility and local solvent accessibility in proteins. Proteins: Structure, Function and Bioinformatics, 2009, 76, 617-636.	1.5	76

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91	Secondary structure-based assignment of the protein structural classes. Amino Acids, 2008, 35, 551-564.	1.2	54
92	Sequence based residue depth prediction using evolutionary information and predicted secondary structure. BMC Bioinformatics, 2008, 9, 388.	1.2	35
93	Accurate sequence-based prediction of catalytic residues. Bioinformatics, 2008, 24, 2329-2338.	1.8	75