

Tuo Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/189748/publications.pdf>

Version: 2024-02-01

93
papers

11,684
citations

94269

37
h-index

56606

83
g-index

110
all docs

110
docs citations

110
times ranked

20397
citing authors

#	ARTICLE	IF	CITATIONS
1	Tumour exosome integrins determine organotropic metastasis. <i>Nature</i> , 2015, 527, 329-335.	13.7	3,688
2	Pancreatic cancer exosomes initiate pre-metastatic niche formation in the liver. <i>Nature Cell Biology</i> , 2015, 17, 816-826.	4.6	2,064
3	Radiotherapy induces responses of lung cancer to CTLA-4 blockade. <i>Nature Medicine</i> , 2018, 24, 1845-1851.	15.2	626
4	A Human Pluripotent Stem Cell-based Platform to Study SARS-CoV-2 Tropism and Model Virus Infection in Human Cells and Organoids. <i>Cell Stem Cell</i> , 2020, 27, 125-136.e7.	5.2	543
5	Discovery of a periosteal stem cell mediating intramembranous bone formation. <i>Nature</i> , 2018, 562, 133-139.	13.7	426
6	Identification of SARS-CoV-2 inhibitors using lung and colonic organoids. <i>Nature</i> , 2021, 589, 270-275.	13.7	389
7	Colonic organoids derived from human induced pluripotent stem cells for modeling colorectal cancer and drug testing. <i>Nature Medicine</i> , 2017, 23, 878-884.	15.2	285
8	Whole-Exome Sequencing of Metastatic Cancer and Biomarkers of Treatment Response. <i>JAMA Oncology</i> , 2015, 1, 466.	3.4	264
9	SPINE X: Improving protein secondary structure prediction by multistep learning coupled with prediction of solvent accessible surface area and backbone torsion angles. <i>Journal of Computational Chemistry</i> , 2012, 33, 259-267.	1.5	209
10	SPINE-D: Accurate Prediction of Short and Long Disordered Regions by a Single Neural-Network Based Method. <i>Journal of Biomolecular Structure and Dynamics</i> , 2012, 29, 799-813.	2.0	150
11	Adaptable haemodynamic endothelial cells for organogenesis and tumorigenesis. <i>Nature</i> , 2020, 585, 426-432.	13.7	145
12	SARS-CoV-2 infection induces beta cell transdifferentiation. <i>Cell Metabolism</i> , 2021, 33, 1577-1591.e7.	7.2	123
13	Targeting Autocrine CCL5-CCR5 Axis Reprograms Immunosuppressive Myeloid Cells and Reinvigorates Antitumor Immunity. <i>Cancer Research</i> , 2017, 77, 2857-2868.	0.4	111
14	Radiotherapy-exposed CD8+ and CD4+ neoantigens enhance tumor control. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	111
15	An Isogenic Human ESC Platform for Functional Evaluation of Genome-wide-Association-Study-Identified Diabetes Genes and Drug Discovery. <i>Cell Stem Cell</i> , 2016, 19, 326-340.	5.2	98
16	<i>N</i> -methylation of a bactericidal compound as a resistance mechanism in <i>Mycobacterium tuberculosis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4523-30.	3.3	88
17	E3 Ubiquitin Ligase UBR5 Drives the Growth and Metastasis of Triple-Negative Breast Cancer. <i>Cancer Research</i> , 2017, 77, 2090-2101.	0.4	87
18	Molecular determinants of nephron vascular specialization in the kidney. <i>Nature Communications</i> , 2019, 10, 5705.	5.8	83

#	ARTICLE	IF	CITATIONS
19	Tumor derived UBR5 promotes ovarian cancer growth and metastasis through inducing immunosuppressive macrophages. <i>Nature Communications</i> , 2020, 11, 6298.	5.8	82
20	Sequence-based prediction of protein-peptide binding sites using support vector machine. <i>Journal of Computational Chemistry</i> , 2016, 37, 1223-1229.	1.5	81
21	On the relation between residue flexibility and local solvent accessibility in proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 76, 617-636.	1.5	76
22	Nitrite produced by <i>Mycobacterium tuberculosis</i> in human macrophages in physiologic oxygen impacts bacterial ATP consumption and gene expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4256-65.	3.3	76
23	Accurate sequence-based prediction of catalytic residues. <i>Bioinformatics</i> , 2008, 24, 2329-2338.	1.8	75
24	ROCKII inhibition promotes the maturation of human pancreatic beta-like cells. <i>Nature Communications</i> , 2017, 8, 298.	5.8	69
25	Development and validation of a whole-exome sequencing test for simultaneous detection of point mutations, indels and copy-number alterations for precision cancer care. <i>Npj Genomic Medicine</i> , 2016, 1, .	1.7	68
26	RBP-Regulated miR-182 Promotes TNF-Induced Osteoclastogenesis. <i>Journal of Immunology</i> , 2016, 196, 4977-4986.	0.4	59
27	Impaired hematopoiesis and leukemia development in mice with a conditional knock-in allele of a mutant splicing factor gene <i>U2af1</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10437-E10446.	3.3	59
28	Inflammatory responses in the placenta upon SARS-CoV-2 infection late in pregnancy. <i>IScience</i> , 2022, 25, 104223.	1.9	58
29	Intrinsically Semi-disordered State and Its Role in Induced Folding and Protein Aggregation. <i>Cell Biochemistry and Biophysics</i> , 2013, 67, 1193-1205.	0.9	57
30	Secondary structure-based assignment of the protein structural classes. <i>Amino Acids</i> , 2008, 35, 551-564.	1.2	54
31	Critical assessment of high-throughput standalone methods for secondary structure prediction. <i>Briefings in Bioinformatics</i> , 2011, 12, 672-688.	3.2	53
32	Analysis and Prediction of RNA-Binding Residues Using Sequence, Evolutionary Conservation, and Predicted Secondary Structure and Solvent Accessibility. <i>Current Protein and Peptide Science</i> , 2010, 11, 609-628.	0.7	50
33	Discovery of a drug candidate for GLIS3-associated diabetes. <i>Nature Communications</i> , 2018, 9, 2681.	5.8	48
34	Somatic Mutations in Renal Cyst Epithelium in Autosomal Dominant Polycystic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 2139-2156.	3.0	46
35	In-silico prediction of disorder content using hybrid sequence representation. <i>BMC Bioinformatics</i> , 2011, 12, 245.	1.2	45
36	Combination of bexarotene and the retinoid CD1530 reduces murine oral-cavity carcinogenesis induced by the carcinogen 4-nitroquinoline 1-oxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8907-8912.	3.3	42

#	ARTICLE	IF	CITATIONS
37	Targeting the PI3K/AKT pathway via G11 inhibition enhanced the drug sensitivity of acute myeloid leukemia cells. <i>Scientific Reports</i> , 2017, 7, 40361.	1.6	41
38	An Immuno-Cardiac Model for Macrophage-Mediated Inflammation in COVID-19 Hearts. <i>Circulation Research</i> , 2021, 129, 33-46.	2.0	40
39	Cardiomyocytes recruit monocytes upon SARS-CoV-2 infection by secreting CCl_2 . <i>Stem Cell Reports</i> , 2021, 16, 2274-2288.	2.3	37
40	A novel crosstalk between TLR4- and NOD2-mediated signaling in the regulation of intestinal inflammation. <i>Scientific Reports</i> , 2015, 5, 12018.	1.6	36
41	An airway organoid-based screen identifies a role for the HIF1 α -glycolysis axis in SARS-CoV-2 infection. <i>Cell Reports</i> , 2021, 37, 109920.	2.9	36
42	Sequence based residue depth prediction using evolutionary information and predicted secondary structure. <i>BMC Bioinformatics</i> , 2008, 9, 388.	1.2	35
43	A proangiogenic signaling axis in myeloid cells promotes malignant progression of glioma. <i>Journal of Clinical Investigation</i> , 2017, 127, 1826-1838.	3.9	34
44	Differential effects of macrophage subtypes on SARS-CoV-2 infection in a human pluripotent stem cell-derived model. <i>Nature Communications</i> , 2022, 13, 2028.	5.8	34
45	Using hESCs to Probe the Interaction of the Diabetes-Associated Genes CDKAL1 and MT1E. <i>Cell Reports</i> , 2017, 19, 1512-1521.	2.9	32
46	A chemical probe of CARM1 alters epigenetic plasticity against breast cancer cell invasion. <i>ELife</i> , 2019, 8, .	2.8	32
47	EthSEQ: ethnicity annotation from whole exome sequencing data. <i>Bioinformatics</i> , 2017, 33, 2402-2404.	1.8	31
48	Pre- and peri-implantation Zika virus infection impairs fetal development by targeting trophectoderm cells. <i>Nature Communications</i> , 2019, 10, 4155.	5.8	30
49	A hPSC-based platform to discover gene-environment interactions that impact human i^2 -cell and dopamine neuron survival. <i>Nature Communications</i> , 2018, 9, 4815.	5.8	29
50	Far Upstream Element-Binding Protein 1 Regulates LSD1 Alternative Splicing to Promote Terminal Differentiation of Neural Progenitors. <i>Stem Cell Reports</i> , 2018, 10, 1208-1221.	2.3	28
51	Fluctuations of backbone torsion angles obtained from NMR-determined structures and their prediction. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 3353-3362.	1.5	27
52	Identification of Ethanol and 4-Nitroquinoline-1-Oxide Induced Epigenetic and Oxidative Stress Markers During Oral Cavity Carcinogenesis. <i>Alcoholism: Clinical and Experimental Research</i> , 2015, 39, 1360-1372.	1.4	27
53	Accurate prediction of protein folding rates from sequence and sequence-derived residue flexibility and solvent accessibility. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, NA-NA.	1.5	25
54	Integrative Molecular Analysis of Patients With Advanced and Metastatic Cancer. <i>JCO Precision Oncology</i> , 2019, 3, 1-12.	1.5	24

#	ARTICLE	IF	CITATIONS
55	Gene expression profiling signatures for the diagnosis and prevention of oral cavity carcinogenesis-genome-wide analysis using RNA-seq technology. <i>Oncotarget</i> , 2015, 6, 24424-24435.	0.8	24
56	Combined Metabolomics and Genome-Wide Transcriptomics Analyses Show Multiple HIF1 α -Induced Changes in Lipid Metabolism in Early Stage Clear Cell Renal Cell Carcinoma. <i>Translational Oncology</i> , 2020, 13, 177-185.	1.7	22
57	Common germline-somatic variant interactions in advanced urothelial cancer. <i>Nature Communications</i> , 2020, 11, 6195.	5.8	21
58	Genome-Wide Profiling of TRACK Kidneys Shows Similarity to the Human ccRCC Transcriptome. <i>Molecular Cancer Research</i> , 2015, 13, 870-878.	1.5	19
59	The metabolic/pH sensor soluble adenylyl cyclase is a tumor suppressor protein. <i>Oncotarget</i> , 2016, 7, 45597-45607.	0.8	19
60	Determination of protein folding kinetic types using sequence and predicted secondary structure and solvent accessibility. <i>Amino Acids</i> , 2012, 42, 271-283.	1.2	18
61	Targeting ubiquitin protein ligase E3 component N-recogin 5 in cancer cells induces a CD8+ T cell mediated immune response. <i>Oncolmmunology</i> , 2020, 9, 1746148.	2.1	17
62	Methylation of dual-specificity phosphatase 4 controls cell differentiation. <i>Cell Reports</i> , 2021, 36, 109421.	2.9	17
63	Histone variant H3.3 maintains adult haematopoietic stem cell homeostasis by enforcing chromatin adaptability. <i>Nature Cell Biology</i> , 2022, 24, 99-111.	4.6	17
64	DNA polymerase δ relies on a unique domain for efficient replisome assembly and strand synthesis. <i>Nature Communications</i> , 2020, 11, 2437.	5.8	16
65	Dried Blood Spot RNA Transcriptomes Correlate with Transcriptomes Derived from Whole Blood RNA. <i>American Journal of Tropical Medicine and Hygiene</i> , 2018, 98, 1541-1546.	0.6	16
66	miR-431 Promotes Metastasis of Pancreatic Neuroendocrine Tumors by Targeting DAB2 Interacting Protein, a Ras GTPase Activating Protein Tumor Suppressor. <i>American Journal of Pathology</i> , 2020, 190, 689-701.	1.9	14
67	Altered Cervical Mucosal Gene Expression and Lower Interleukin 15 Levels in Women With <i>Schistosoma haematobium</i> Infection but Not in Women With <i>Schistosoma mansoni</i> Infection. <i>Journal of Infectious Diseases</i> , 2019, 219, 1777-1785.	1.9	12
68	Editorial: Bioinformatics Analysis of Single Cell Sequencing Data and Applications in Precision Medicine. <i>Frontiers in Genetics</i> , 2020, 10, 1358.	1.1	11
69	A retinoic acid receptor β 2 agonist attenuates transcriptome and metabolome changes underlying nonalcohol-associated fatty liver disease. <i>Journal of Biological Chemistry</i> , 2021, 297, 101331.	1.6	11
70	Papillary renal cell carcinoma with a somatic mutation in MET in a patient with autosomal dominant polycystic kidney disease. <i>Cancer Genetics</i> , 2016, 209, 11-20.	0.2	10
71	Evidence for dispensability of protein kinase R in host control of tuberculosis. <i>European Journal of Immunology</i> , 2018, 48, 612-620.	1.6	10
72	Gene Expression Differences in Host Response to <i>Schistosoma haematobium</i> Infection. <i>Infection and Immunity</i> , 2019, 87, .	1.0	10

#	ARTICLE	IF	CITATIONS
73	Dextran Sulfate Protects Pancreatic β -Cells, Reduces Autoimmunity, and Ameliorates Type 1 Diabetes. <i>Diabetes</i> , 2020, 69, 1692-1707.	0.3	10
74	Mutations in long-lived epithelial stem cells and their clonal progeny in pre-malignant lesions and in oral squamous cell carcinoma. <i>Carcinogenesis</i> , 2020, 41, 1553-1564.	1.3	10
75	Intrinsic Disorder and Semi-disorder Prediction by SPINE-D. <i>Methods in Molecular Biology</i> , 2017, 1484, 159-174.	0.4	8
76	VCAM-1 Upregulation Contributes to Insensitivity of Vemurafenib in BRAF-Mutant Thyroid Cancer. <i>Translational Oncology</i> , 2020, 13, 441-451.	1.7	8
77	Doxycycline-induced exogenous Bmi-1 expression enhances tumor formation in a murine model of oral squamous cell carcinoma. <i>Cancer Biology and Therapy</i> , 2020, 21, 400-411.	1.5	7
78	Derivation and characterization of a UCP1 reporter human ES cell line. <i>Stem Cell Research</i> , 2018, 30, 12-21.	0.3	5
79	Abstract 1115: Germline single nucleotide polymorphisms in DNA repair genes in urothelial cancer patients. , 2017, , .		2
80	2131-P: Dextran Sulfate and HGF Ameliorate Type 1 Diabetes. <i>Diabetes</i> , 2019, 68, 2131-P.	0.3	2
81	MP48-18 GERMLINE DNA REPAIR SINGLE NUCLEOTIDE POLYMORPHISMS IN UROTHELIAL CANCER PATIENTS.. <i>Journal of Urology</i> , 2017, 197, .	0.2	1
82	Utility of multimodality molecular profiling for pediatric patients with central nervous system tumors. <i>Neuro-Oncology Advances</i> , 2022, 4, vdac031.	0.4	1
83	A dual SHOX2:GFP; MYH6:mCherry knockin hESC reporter line for derivation of human SAN-like cells. <i>IScience</i> , 2022, 25, 104153.	1.9	1
84	STEM-33. LOSS OF FUBP1 IMPAIRS TERMINAL NEURONAL DIFFERENTIATION AND PREDISPOSES NEURAL PROGENITORS FOR TRANSFORMATION. <i>Neuro-Oncology</i> , 2017, 19, vi233-vi233.	0.6	0
85	The application of precision medicine in diagnosing familial Mediterranean fever. <i>Leukemia and Lymphoma</i> , 2019, 60, 2091-2093.	0.6	0
86	Abstract 2481: Loss of FUBP1 impairs terminal neuronal differentiation and predisposes neural progenitors for transformation. , 2018, , .		0
87	The genomic landscape of metastatic clear cell renal cell carcinoma (ccRCC) after treatment with systemic therapy.. <i>Journal of Clinical Oncology</i> , 2019, 37, 675-675.	0.8	0
88	Abstract 4665: Lineage-tracing technology to understand the molecular events in a mouse model of tongue squamous cell carcinoma (SCC) carcinogenesis. , 2019, , .		0
89	Abstract 2263: Characteristics of the interferon-stimulatory DNA cargo of exosomes produced by irradiated breast cancer cells. , 2020, , .		0
90	Abstract 1895: The role of the IFN β pathway in the development of vemurafenib resistance in BRAFV600E mutant thyroid carcinoma. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
91	Targeting Metabolic Vulnerabilities in Primary Effusion Lymphoma Using the Novel Nucleoside Analog 6-Eti. Blood, 2021, 138, 1188-1188.	0.6	0
92	696 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
93	465 Radiotherapy and CTLA-4 blockade expand anti-tumor T cells differentiation states and cooperate with CD40 agonist to induce tumor rejection. , 2020, , .		0