

Liang-Chuan Lai

List of Publications by Year in descending order

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Version: 2024-02-01

123
papers

2,908
citations

218381

26
h-index

197535

49
g-index

126
all docs

126
docs citations

126
times ranked

5461
citing authors

#	ARTICLE	IF	CITATIONS
1	miRSystem: An Integrated System for Characterizing Enriched Functions and Pathways of MicroRNA Targets. <i>PLoS ONE</i> , 2012, 7, e42390.	1.1	277
2	Identification of a Novel Biomarker, <i>SEMA5A</i> , for Non-Small Cell Lung Carcinoma in Nonsmoking Women. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2010, 19, 2590-2597.	1.1	270
3	Genomic Analyses of Anaerobically Induced Genes in <i>Saccharomyces cerevisiae</i> : Functional Roles of Rox1 and Other Factors in Mediating the Anoxic Response. <i>Journal of Bacteriology</i> , 2002, 184, 250-265.	1.0	218
4	IL-1 β -driven neutrophilia preserves antibacterial defense in the absence of the kinase IKK β . <i>Nature Immunology</i> , 2011, 12, 144-150.	7.0	102
5	Deregulated microRNAs in triple-negative breast cancer revealed by deep sequencing. <i>Molecular Cancer</i> , 2015, 14, 36.	7.9	100
6	Metabolic-State-Dependent Remodeling of the Transcriptome in Response to Anoxia and Subsequent Reoxygenation in <i>Saccharomyces cerevisiae</i> . <i>Eukaryotic Cell</i> , 2006, 5, 1468-1489.	3.4	83
7	A whole genome methylation analysis of systemic lupus erythematosus: hypomethylation of the IL10 and IL1R2 promoters is associated with disease activity. <i>Genes and Immunity</i> , 2012, 13, 214-220.	2.2	79
8	Molecular Characteristics and Metastasis Predictor Genes of Triple-Negative Breast Cancer: A Clinical Study of Triple-Negative Breast Carcinomas. <i>PLoS ONE</i> , 2012, 7, e45831.	1.1	76
9	Dynamical Remodeling of the Transcriptome during Short-Term Anaerobiosis in <i>Saccharomyces cerevisiae</i> : Differential Response and Role of Msn2 and/or Msn4 and Other Factors in Galactose and Glucose Media. <i>Molecular and Cellular Biology</i> , 2005, 25, 4075-4091.	1.1	72
10	ADAM9 Promotes Lung Cancer Metastases to Brain by a Plasminogen Activator-Based Pathway. <i>Cancer Research</i> , 2014, 74, 5229-5243.	0.4	70
11	Integrated Analyses of Copy Number Variations and Gene Expression in Lung Adenocarcinoma. <i>PLoS ONE</i> , 2011, 6, e24829.	1.1	68
12	Concurrent Gene Signatures for Han Chinese Breast Cancers. <i>PLoS ONE</i> , 2013, 8, e76421.	1.1	65
13	Disease-Targeted Sequencing of Ion Channel Genes identifies de novo mutations in Patients with Non-Familial Brugada Syndrome. <i>Scientific Reports</i> , 2014, 4, 6733.	1.6	54
14	Sequence variants of interleukin 6 (IL-6) are significantly associated with a decreased risk of late-onset Alzheimer's disease. <i>Journal of Neuroinflammation</i> , 2012, 9, 21.	3.1	49
15	MicroRNA-449a Enhances Radiosensitivity in CL1-0 Lung Adenocarcinoma Cells. <i>PLoS ONE</i> , 2013, 8, e62383.	1.1	40
16	Identification of Gene Expression Biomarkers for Predicting Radiation Exposure. <i>Scientific Reports</i> , 2014, 4, 6293.	1.6	39
17	miR-338-5p inhibits cell proliferation, colony formation, migration and cisplatin resistance in esophageal squamous cancer cells by targeting FERMT2. <i>Carcinogenesis</i> , 2019, 40, 883-892.	1.3	38
18	DBCAT: Database of CpG Islands and Analytical Tools for Identifying Comprehensive Methylation Profiles in Cancer Cells. <i>Journal of Computational Biology</i> , 2011, 18, 1013-1017.	0.8	37

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19	ADAM9 promotes lung cancer progression through vascular remodeling by VEGFA, ANGPT2, and PLAT. <i>Scientific Reports</i> , 2017, 7, 15108.	1.6	37
20	The hypoxia-responsive lncRNA <i>NDRG-OT1</i> promotes NDRG1 degradation via ubiquitin-mediated proteolysis in breast cancer cells. <i>Oncotarget</i> , 2018, 9, 10470-10482.	0.8	33
21	Semaphorin 6A Attenuates the Migration Capability of Lung Cancer Cells via the NRF2/HMOX1 Axis. <i>Scientific Reports</i> , 2019, 9, 13302.	1.6	33
22	Transcription of <i>Tnfrsf13b</i> Is Regulated by NF- κ B and p38 via C/EBP β in Activated Macrophages. <i>PLoS ONE</i> , 2013, 8, e73153.	1.1	32
23	Methylation in pericytes after acute injury promotes chronic kidney disease. <i>Journal of Clinical Investigation</i> , 2020, 130, 4845-4857.	3.9	32
24	ADAM9 Up-Regulates N-Cadherin via miR-218 Suppression in Lung Adenocarcinoma Cells. <i>PLoS ONE</i> , 2014, 9, e94065.	1.1	32
25	MicroRNA-769-3p Down-regulates NDRG1 and Enhances Apoptosis in MCF-7 Cells During Reoxygenation. <i>Scientific Reports</i> , 2014, 4, 5908.	1.6	31
26	Differential network analysis reveals the genome-wide landscape of estrogen receptor modulation in hormonal cancers. <i>Scientific Reports</i> , 2016, 6, 23035.	1.6	31
27	ADAM9 enhances CDCP1 protein expression by suppressing miR-218 for lung tumor metastasis. <i>Scientific Reports</i> , 2015, 5, 16426.	1.6	29
28	Hypoxia-Induced MALAT1 Promotes the Proliferation and Migration of Breast Cancer Cells by Sponging MiR-3064-5p. <i>Frontiers in Oncology</i> , 2021, 11, 658151.	1.3	29
29	ADAM9 enhances CDCP1 by inhibiting miR-1 through EGFR signaling activation in lung cancer metastasis. <i>Oncotarget</i> , 2017, 8, 47365-47378.	0.8	29
30	The potential roles of stem cell-derived extracellular vesicles as a therapeutic tool. <i>Annals of Translational Medicine</i> , 2019, 7, 693-693.	0.7	28
31	Identification of regulatory SNPs associated with genetic modifications in lung adenocarcinoma. <i>BMC Research Notes</i> , 2015, 8, 92.	0.6	27
32	Down-Regulation of NDRG1 Promotes Migration of Cancer Cells during Reoxygenation. <i>PLoS ONE</i> , 2011, 6, e24375.	1.1	26
33	SHANK3 Regulates Intestinal Barrier Function Through Modulating ZO-1 Expression Through the PKC μ -dependent Pathway. <i>Inflammatory Bowel Diseases</i> , 2017, 23, 1730-1740.	0.9	26
34	Genetic Polymorphisms of a Novel Vascular Susceptibility Gene, <i>Ninjurin2</i> (<i>NINJ2</i>), Are Associated with a Decreased Risk of Alzheimer's Disease. <i>PLoS ONE</i> , 2011, 6, e20573.	1.1	25
35	Identification of Prognostic Genes for Recurrent Risk Prediction in Triple Negative Breast Cancer Patients in Taiwan. <i>PLoS ONE</i> , 2011, 6, e28222.	1.1	25
36	CellExpress: a comprehensive microarray-based cancer cell line and clinical sample gene expression analysis online system. <i>Database: the Journal of Biological Databases and Curation</i> , 2018, 2018, .	1.4	25

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37	Identification of theranostic factors for patients developing metastasis after surgery for early-stage lung adenocarcinoma. <i>Theranostics</i> , 2021, 11, 3661-3675.	4.6	25
38	Prognostic significance of NPM1 mutation-modulated microRNA-mRNA regulation in acute myeloid leukemia. <i>Leukemia</i> , 2016, 30, 274-284.	3.3	24
39	Genetic polymorphisms of clusterin gene are associated with a decreased risk of Alzheimer's disease. <i>European Journal of Epidemiology</i> , 2012, 27, 73-75.	2.5	21
40	Utilizing Multiple in Silico Analyses to Identify Putative Causal SCN5A Variants in Brugada Syndrome. <i>Scientific Reports</i> , 2014, 4, 3850.	1.6	21
41	Whole-genome de novo sequencing reveals unique genes that contributed to the adaptive evolution of the Mikado pheasant. <i>GigaScience</i> , 2018, 7, .	3.3	21
42	Identification of Methylation-Driven, Differentially Expressed STXBP6 as a Novel Biomarker in Lung Adenocarcinoma. <i>Scientific Reports</i> , 2017, 7, 42573.	1.6	20
43	Different effects of long noncoding RNA NDRG1-OT1 fragments on NDRG1 transcription in breast cancer cells under hypoxia. <i>RNA Biology</i> , 2018, 15, 1487-1498.	1.5	20
44	Targeting positive feedback between BASP1 and EGFR as a therapeutic strategy for lung cancer progression. <i>Theranostics</i> , 2020, 10, 10925-10939.	4.6	20
45	Aryl Hydrocarbon Receptor Activates NDRG1 Transcription under Hypoxia in Breast Cancer Cells. <i>Scientific Reports</i> , 2016, 6, 20808.	1.6	19
46	Comparison of the transcriptomic "stress response" evoked by antimycin A and oxygen deprivation in <i>saccharomyces cerevisiae</i> . <i>BMC Genomics</i> , 2008, 9, 627.	1.2	18
47	Adenylate Kinase 4 Promotes Inflammatory Gene Expression via Hif1 α and AMPK in Macrophages. <i>Frontiers in Immunology</i> , 2021, 12, 630318.	2.2	18
48	The extracellular SEMA domain attenuates intracellular apoptotic signaling of semaphorin 6A in lung cancer cells. <i>Oncogenesis</i> , 2018, 7, 95.	2.1	17
49	Genetic polymorphisms of nerve growth factor receptor (NGFR) and the risk of Alzheimer's disease. <i>Journal of Negative Results in BioMedicine</i> , 2012, 11, 5.	1.4	16
50	iGC—an integrated analysis package of gene expression and copy number alteration. <i>BMC Bioinformatics</i> , 2017, 18, 35.	1.2	16
51	Distinct Signaling Pathways After Higher or Lower Doses of Radiation in Three Closely Related Human Lymphoblast Cell Lines. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 76, 212-219.	0.4	15
52	SLCO3A1, a Novel Crohn's Disease-Associated Gene, Regulates NF- κ B Activity and Associates with Intestinal Perforation. <i>PLoS ONE</i> , 2014, 9, e100515.	1.1	15
53	Invasive Pathobionts Contribute to Colon Cancer Initiation by Counterbalancing Epithelial Antimicrobial Responses. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2022, 13, 57-79.	2.3	15
54	An automated microfluidic DNA microarray platform for genetic variant detection in inherited arrhythmic diseases. <i>Analyst</i> , The, 2018, 143, 1367-1377.	1.7	14

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55	GSTM3 variant is a novel genetic modifier in Brugada syndrome, a disease with risk of sudden cardiac death. <i>EBioMedicine</i> , 2020, 57, 102843.	2.7	14
56	anamiR: integrated analysis of MicroRNA and gene expression profiling. <i>BMC Bioinformatics</i> , 2019, 20, 239.	1.2	13
57	MicroRNA-107 enhances radiosensitivity by suppressing granulin in PC-3 prostate cancer cells. <i>Scientific Reports</i> , 2020, 10, 14584.	1.6	13
58	Uremic Toxin-Producing Bacteroides Species Preval in the Gut Microbiota of Taiwanese CKD Patients: An Analysis Using the New Taiwan Microbiome Baseline. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 726256.	1.8	12
59	Use of Germline Polymorphisms in Predicting Concurrent Chemoradiotherapy Response in Esophageal Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, 1996-2003.	0.4	11
60	Multiclass Prediction with Partial Least Square Regression for Gene Expression Data: Applications in Breast Cancer Intrinsic Taxonomy. <i>BioMed Research International</i> , 2013, 2013, 1-9.	0.9	11
61	SNP rs10248565 in HDAC9 as a novel genomic aberration biomarker of lung adenocarcinoma in non-smoking women. <i>Journal of Biomedical Science</i> , 2014, 21, 24.	2.6	11
62	Identification of Genes with Consistent Methylation Levels across Different Human Tissues. <i>Scientific Reports</i> , 2015, 4, 4351.	1.6	11
63	Regulatory Mechanisms and Functional Roles of Hypoxia-Induced Long Non-Coding RNA MTORT1 in Breast Cancer Cells. <i>Frontiers in Oncology</i> , 2021, 11, 663114.	1.3	10
64	EasyMAP: A user-friendly online platform for analyzing 16S ribosomal DNA sequencing data. <i>New Biotechnology</i> , 2021, 63, 37-44.	2.4	10
65	To compare the performance of prokaryotic taxonomy classifiers using curated 16S full-length rRNA sequences. <i>Computers in Biology and Medicine</i> , 2022, 145, 105416.	3.9	10
66	Prediction consistency and clinical presentations of breast cancer molecular subtypes for Han Chinese population. <i>Journal of Translational Medicine</i> , 2012, 10, S10.	1.8	9
67	A model-based circular binary segmentation algorithm for the analysis of array CGH data. <i>BMC Research Notes</i> , 2011, 4, 394.	0.6	8
68	Far infrared ray irradiation attenuates apoptosis and cell death of cultured keratinocytes stressed by dehydration. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2012, 106, 61-68.	1.7	8
69	Development of a prediction model for radiosensitivity using the expression values of genes and long non-coding RNAs. <i>Oncotarget</i> , 2016, 7, 26739-26750.	0.8	8
70	Identifying the functions and biomarkers of <i>Codonopsis pilosula</i> and <i>Astragalus membranaceus</i> aqueous extracts in hepatic cells. <i>Chinese Medicine</i> , 2019, 14, 10.	1.6	8
71	VariED: the first integrated database of gene annotation and expression profiles for variants related to human diseases. <i>Database: the Journal of Biological Databases and Curation</i> , 2019, 2019, .	1.4	7
72	ADAM9 functions as a transcriptional regulator to drive angiogenesis in esophageal squamous cell carcinoma. <i>International Journal of Biological Sciences</i> , 2021, 17, 3898-3910.	2.6	7

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73	A Longitudinal Study on the Association of Interrelated Factors Among Frailty Dimensions, Cognitive Domains, Cognitive Frailty, and All-Cause Mortality. <i>Journal of Alzheimer's Disease</i> , 2021, 84, 1795-1809.	1.2	7
74	RNASeqR: An R Package for Automated Two-Group RNA-Seq Analysis Workflow. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2021, 18, 2023-2031.	1.9	6
75	Semaphorin 5A suppresses the proliferation and migration of lung adenocarcinoma cells. <i>International Journal of Oncology</i> , 2020, 56, 165-177.	1.4	6
76	The association between metabolic syndrome and successful aging- using an extended definition of successful aging. <i>PLoS ONE</i> , 2021, 16, e0260550.	1.1	6
77	Attenuation of isocapnic hyperpnoea-induced guinea-pig bronchoconstriction by chronic hypoxia. <i>European Respiratory Journal</i> , 1998, 11, 1075-1080.	3.1	5
78	Deep Sequencing Reveals a MicroRNA Expression Signature in Triple-Negative Breast Cancer. <i>Methods in Molecular Biology</i> , 2018, 1699, 99-111.	0.4	5
79	Macrophage Migration Inhibitory Factor Acts as the Potential Target of a Newly Synthesized Compound, 1-(9-methyl-3-carbazole)-3, 4-dihydro-1 ² -carboline. <i>Scientific Reports</i> , 2019, 9, 2147.	1.6	5
80	CNVIntegrate: the first multi-ethnic database for identifying copy number variations associated with cancer. <i>Database: the Journal of Biological Databases and Curation</i> , 2021, 2021, .	1.4	5
81	Determining arterial wave transit time from a single aortic pressure pulse in rats: vascular impulse response analysis. <i>Scientific Reports</i> , 2017, 7, 40998.	1.6	5
82	A rapid filtration apparatus for harvesting cells under controlled conditions for use in genome-wide temporal profiling studies. <i>Analytical Biochemistry</i> , 2004, 328, 29-34.	1.1	4
83	Comparisons and performance evaluations of RNA-seq alignment tools. , 2014, , .		4
84	Estrogen receptor status prediction by gene component regression: a comparative study. <i>International Journal of Data Mining and Bioinformatics</i> , 2014, 9, 149.	0.1	4
85	Defects in Vascular Mechanics Due to Aging in Rats: Studies on Arterial Wave Properties from a Single Aortic Pressure Pulse. <i>Frontiers in Physiology</i> , 2017, 8, 503.	1.3	4
86	Dual immuno-renal targeting of 7-benzylidenenaltrexone alleviates lupus nephritis via Fc γ RIIB and HO-1. <i>Journal of Molecular Medicine</i> , 2018, 96, 413-425.	1.7	4
87	Using proteomic profiling to characterize protein signatures of different thymoma subtypes. <i>BMC Cancer</i> , 2019, 19, 796.	1.1	4
88	Mitomycin C treatment induces resistance and enhanced migration via phosphorylated Akt in aggressive lung cancer cells. <i>Oncotarget</i> , 2016, 7, 79995-80007.	0.8	4
89	Putative effectors for prognosis in lung adenocarcinoma are ethnic and gender specific. <i>Oncotarget</i> , 2015, 6, 19483-19499.	0.8	4
90	Indoxyl Sulfate Elevated Lnc-SLC15A1-1 Upregulating CXCL10/CXCL8 Expression in High-Glucose Endothelial Cells by Sponging MicroRNAs. <i>Toxins</i> , 2021, 13, 873.	1.5	4

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91	Refinement of breast cancer risk prediction with concordant leading edge subsets from prognostic gene signatures. <i>Breast Cancer Research and Treatment</i> , 2014, 147, 353-370.	1.1	3
92	Systolic aortic pressure-time area is a useful index describing arterial wave properties in rats with diabetes. <i>Scientific Reports</i> , 2015, 5, 17293.	1.6	3
93	Evolutionary Trajectories and Genomic Divergence in Localized Breast Cancers after Ipsilateral Breast Tumor Recurrence. <i>Cancers</i> , 2021, 13, 1821.	1.7	3
94	Overexpression of methylation-driven DCC suppresses proliferation of lung cancer cells. <i>Translational Cancer Research</i> , 2016, 5, 169-175.	0.4	3
95	Novel Tumor-Specific Antigens for Immunotherapy Identified From Multi-omics Profiling in Thymic Carcinomas. <i>Frontiers in Immunology</i> , 2021, 12, 748820.	2.2	3
96	Lidocaine and Bupivacaine Downregulate MYB and DANCR lncRNA by Upregulating miR-187-5p in MCF-7 Cells. <i>Frontiers in Medicine</i> , 2021, 8, 732817.	1.2	3
97	Impacts of Kidney Dysfunction and Cerebral Cortical Thinning on Cognitive Change in Elderly Population. <i>Journal of Alzheimer's Disease</i> , 2020, 76, 225-236.	1.2	2
98	Differential whole-genome doubling and homologous recombination deficiencies across breast cancer subtypes from the Taiwanese population. <i>Communications Biology</i> , 2021, 4, 1052.	2.0	2
99	MiDSysTEM: A comprehensive online system for de novo assembly and analysis of microbial genomes. <i>New Biotechnology</i> , 2021, 65, 42-52.	2.4	2
100	Quantification of contractile mechanics in the rat heart from ventricular pressure alone. <i>Oncotarget</i> , 2017, 8, 96161-96170.	0.8	2
101	Catecholamines in hyperpnoea-induced airway constriction of guinea pigs. <i>Autonomic and Autacoid Pharmacology</i> , 2001, 21, 151-157.	0.7	1
102	Concurrent analysis of copy number variations and expression profiles to identify genes associated with tumorigenesis and survival outcome in lung adenocarcinoma. , 2010, , .		1
103	Association between mean corpuscular volume and cognitive impairment in an 8â€¥year cohort study in the communityâ€¥dwelling elderly. <i>Alzheimer's and Dementia</i> , 2020, 16, e039280.	0.4	1
104	The association between ambient air pollution and cognitive impairment in communityâ€¥dwelling older adults: Sixâ€¥year cohort study TIGER. <i>Alzheimer's and Dementia</i> , 2020, 16, e041433.	0.4	1
105	High-performance deep learning pipeline predicts individuals in mixtures of DNA using sequencing data. <i>Briefings in Bioinformatics</i> , 2021, 22, .	3.2	1
106	ADAM9 to enhance CDCP1 protein expression by suppressing miR-218 for lung tumor metastasis.. <i>Journal of Clinical Oncology</i> , 2016, 34, e23002-e23002.	0.8	1
107	Utilizing Cox regression model to assess the relations between predefined gene sets and the survival outcome of lung adenocarcinoma. , 2010, , .		0
108	Comparison of triple negative breast cancer between Asian and western data sets. , 2010, , .		0

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109	Concurrent analysis of copy number variation and gene expression: Application in paired non-smoking female lung cancer patients. , 2010, , .		0
110	Projecting partial least square and principle component regression across microarray studies. , 2010, , .		0
111	Concurrent analysis of copy number variation and gene expression: application in paired non-smoking female lung cancer patients. International Journal of Data Mining and Bioinformatics, 2013, 8, 92.	0.1	0
112	Extracorporeal Life Support Enhances the Forward Pressure Wave to Cause a Mismatch between Cardiac Oxygen Demand and Supply. Scientific Reports, 2019, 9, 13882.	1.6	0
113	Metabolic syndrome and successful aging: A six-year cohort study TIGER among community-dwelling elderly in Taiwan. Alzheimer's and Dementia, 2020, 16, e038052.	0.4	0
114	The association between retinal vascular fractal dimension and cognitive function in the community-dwelling elderly cohort TIGER. Alzheimer's and Dementia, 2020, 16, e039265.	0.4	0
115	ATTRACTIVE - An Auto-Updating Database for Experimental Protocols in Regenerative Medicine. IEEE Access, 2021, 9, 75202-75210.	2.6	0
116	Abstract 1993: Higher activity of cell proliferation is associated with poor survival in lung adenocarcinoma. , 2010, , .		0
117	Abstract 2944: Genome-wide transcriptional modulation screening in non-smoking female lung cancer in Taiwan. , 2010, , .		0
118	Abstract 112: Concurrent analysis between copy number variation and gene expression of non-smoking lung cancer females in Taiwan. , 2010, , .		0
119	Abstract 3977: Gene-expression signature specifically associated with triple-negative breast cancer pertaining to asian ethnicity. , 2010, , .		0
120	Factors to be considered in designing frameworks for automated bioinformatics pipelines-a perspective based on application setting. Translational Cancer Research, 2020, 9, 7382-7383.	0.4	0
121	MutScape: an analytical toolkit for probing the mutational landscape in cancer genomics. NAR Genomics and Bioinformatics, 2021, 3, lqab099.	1.5	0
122	Extracellular domain of semaphorin 5A serves a tumor-suppressing role by activating interferon signaling pathways in lung adenocarcinoma cells. International Journal of Oncology, 2022, 60, .	1.4	0
123	Association of ambient air pollution and retinal layer thickness with cognitive impairment in community-dwelling older adults: A two-year cohort study. Alzheimer's and Dementia, 2021, 17, .	0.4	0