

# Liang-Chuan Lai

## List of Publications by Year in descending order

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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	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
2	Extracellular domain of semaphorin 5A serves a tumor-suppressing role by activating interferon signaling pathways in lung adenocarcinoma cells. <i>International Journal of Oncology</i> , 2022, 60, .	1.4	0
3	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
4	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
5	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
6	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
7	Adenylate Kinase 4 Promotes Inflammatory Gene Expression via Hif1 $\alpha$ and AMPK in Macrophages. <i>Frontiers in Immunology</i> , 2021, 12, 630318.	2.2	18
8	Evolutionary Trajectories and Genomic Divergence in Localized Breast Cancers after Ipsilateral Breast Tumor Recurrence. <i>Cancers</i> , 2021, 13, 1821.	1.7	3
9	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
10	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
11	EasyMAP: A user-friendly online platform for analyzing 16S ribosomal DNA sequencing data. <i>New Biotechnology</i> , 2021, 63, 37-44.	2.4	10
12	High-performance deep learning pipeline predicts individuals in mixtures of DNA using sequencing data. <i>Briefings in Bioinformatics</i> , 2021, 22, .	3.2	1
13	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
14	MiDSytem: A comprehensive online system for de novo assembly and analysis of microbial genomes. <i>New Biotechnology</i> , 2021, 65, 42-52.	2.4	2
15	ATTRACTIVE " An Auto-Updating Database for Experimental Protocols in Regenerative Medicine. <i>IEEE Access</i> , 2021, 9, 75202-75210.	2.6	0
16	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
17	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
18	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

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19	MutScape: an analytical toolkit for probing the mutational landscape in cancer genomics. <i>NAR Genomics and Bioinformatics</i> , 2021, 3, lqab099.	1.5	0
20	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
21	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
22	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
23	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
24	Association of ambient air pollution and retinal layer thickness with cognitive impairment in community-dwelling older adults: A two-year cohort study. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.4	0
25	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
26	MicroRNA-107 enhances radiosensitivity by suppressing granulin in PC-3 prostate cancer cells. <i>Scientific Reports</i> , 2020, 10, 14584.	1.6	13
27	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
28	Metabolic syndrome and successful aging: A six-year cohort study TIGER among community-dwelling elderly in Taiwan. <i>Alzheimer's and Dementia</i> , 2020, 16, e038052.	0.4	0
29	The association between retinal vascular fractal dimension and cognitive function in the community-dwelling elderly cohort TIGER. <i>Alzheimer's and Dementia</i> , 2020, 16, e039265.	0.4	0
30	Association between mean corpuscular volume and cognitive impairment in an 8-year cohort study in the community-dwelling elderly. <i>Alzheimer's and Dementia</i> , 2020, 16, e039280.	0.4	1
31	The association between ambient air pollution and cognitive impairment in community-dwelling older adults: Six-year cohort study TIGER. <i>Alzheimer's and Dementia</i> , 2020, 16, e041433.	0.4	1
32	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
33	Methylation in pericytes after acute injury promotes chronic kidney disease. <i>Journal of Clinical Investigation</i> , 2020, 130, 4845-4857.	3.9	32
34	Semaphorin 5A suppresses the proliferation and migration of lung adenocarcinoma cells. <i>International Journal of Oncology</i> , 2020, 56, 165-177.	1.4	6
35	Factors to be considered in designing frameworks for automated bioinformatics pipelines—a perspective based on application setting. <i>Translational Cancer Research</i> , 2020, 9, 7382-7383.	0.4	0
36	Using proteomic profiling to characterize protein signatures of different thymoma subtypes. <i>BMC Cancer</i> , 2019, 19, 796.	1.1	4

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37	VariED: the first integrated database of gene annotation and expression profiles for variants related to human diseases. Database: the Journal of Biological Databases and Curation, 2019, 2019, .	1.4	7
38	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
39	Semaphorin 6A Attenuates the Migration Capability of Lung Cancer Cells via the NRF2/HMOX1 Axis. Scientific Reports, 2019, 9, 13302.	1.6	33
40	anamiR: integrated analysis of MicroRNA and gene expression profiling. BMC Bioinformatics, 2019, 20, 239.	1.2	13
41	Identifying the functions and biomarkers of Codonopsis pilosula and Astragalus membranaceus aqueous extracts in hepatic cells. Chinese Medicine, 2019, 14, 10.	1.6	8
42	Macrophage Migration Inhibitory Factor Acts as the Potential Target of a Newly Synthesized Compound, 1-(9-methyl-3-carbazole)-3, 4-dihydro-1 <sup>2</sup> -carboline. Scientific Reports, 2019, 9, 2147.	1.6	5
43	miR-338-5p inhibits cell proliferation, colony formation, migration and cisplatin resistance in esophageal squamous cancer cells by targeting FERMT2. Carcinogenesis, 2019, 40, 883-892.	1.3	38
44	The potential roles of stem cell-derived extracellular vesicles as a therapeutic tool. Annals of Translational Medicine, 2019, 7, 693-693.	0.7	28
45	Dual immuno-renal targeting of 7-benzylidenenaltrexone alleviates lupus nephritis via Fc $\beta$ RIIB and HO-1. Journal of Molecular Medicine, 2018, 96, 413-425.	1.7	4
46	An automated microfluidic DNA microarray platform for genetic variant detection in inherited arrhythmic diseases. Analyst, The, 2018, 143, 1367-1377.	1.7	14
47	Deep Sequencing Reveals a MicroRNA Expression Signature in Triple-Negative Breast Cancer. Methods in Molecular Biology, 2018, 1699, 99-111.	0.4	5
48	CellExpress: a comprehensive microarray-based cancer cell line and clinical sample gene expression analysis online system. Database: the Journal of Biological Databases and Curation, 2018, 2018, .	1.4	25
49	Different effects of long noncoding RNA <i>NDRG1-OT1</i> fragments on <i>NDRG1</i> transcription in breast cancer cells under hypoxia. RNA Biology, 2018, 15, 1487-1498.	1.5	20
50	The extracellular SEMA domain attenuates intracellular apoptotic signaling of semaphorin 6A in lung cancer cells. Oncogenesis, 2018, 7, 95.	2.1	17
51	The hypoxia-responsive lncRNA <i>NDRG1-OT1</i> promotes <i>NDRG1</i> degradation via ubiquitin-mediated proteolysis in breast cancer cells. Oncotarget, 2018, 9, 10470-10482.	0.8	33
52	Whole-genome de novo sequencing reveals unique genes that contributed to the adaptive evolution of the Mikado pheasant. GigaScience, 2018, 7, .	3.3	21
53	iCC"an integrated analysis package of gene expression and copy number alteration. BMC Bioinformatics, 2017, 18, 35.	1.2	16
54	Identification of Methylation-Driven, Differentially Expressed STXBP6 as a Novel Biomarker in Lung Adenocarcinoma. Scientific Reports, 2017, 7, 42573.	1.6	20

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55	SHANK3 Regulates Intestinal Barrier Function Through Modulating ZO-1 Expression Through the PKC $\mu$ -dependent Pathway. <i>Inflammatory Bowel Diseases</i> , 2017, 23, 1730-1740.	0.9	26
56	ADAM9 promotes lung cancer progression through vascular remodeling by VEGFA, ANGPT2, and PLAT. <i>Scientific Reports</i> , 2017, 7, 15108.	1.6	37
57	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
58	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
59	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
60	Quantification of contractile mechanics in the rat heart from ventricular pressure alone. <i>Oncotarget</i> , 2017, 8, 96161-96170.	0.8	2
61	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
62	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
63	Aryl Hydrocarbon Receptor Activates NDRG1 Transcription under Hypoxia in Breast Cancer Cells. <i>Scientific Reports</i> , 2016, 6, 20808.	1.6	19
64	Prognostic significance of NPM1 mutation-modulated microRNA-mRNA regulation in acute myeloid leukemia. <i>Leukemia</i> , 2016, 30, 274-284.	3.3	24
65	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
66	Overexpression of methylation-driven DCC suppresses proliferation of lung cancer cells. <i>Translational Cancer Research</i> , 2016, 5, 169-175.	0.4	3
67	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
68	ADAM9 enhances CDCP1 protein expression by suppressing miR-218 for lung tumor metastasis. <i>Scientific Reports</i> , 2015, 5, 16426.	1.6	29
69	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
70	Deregulated microRNAs in triple-negative breast cancer revealed by deep sequencing. <i>Molecular Cancer</i> , 2015, 14, 36.	7.9	100
71	Identification of regulatory SNPs associated with genetic modifications in lung adenocarcinoma. <i>BMC Research Notes</i> , 2015, 8, 92.	0.6	27
72	Identification of Genes with Consistent Methylation Levels across Different Human Tissues. <i>Scientific Reports</i> , 2015, 4, 4351.	1.6	11

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73	Putative effectors for prognosis in lung adenocarcinoma are ethnic and gender specific. <i>Oncotarget</i> , 2015, 6, 19483-19499.	0.8	4
74	SLCO3A1, a Novel Crohn's Disease-Associated Gene, Regulates NF- $\kappa$ B Activity and Associates with Intestinal Perforation. <i>PLoS ONE</i> , 2014, 9, e100515.	1.1	15
75	ADAM9 Promotes Lung Cancer Metastases to Brain by a Plasminogen Activator-Based Pathway. <i>Cancer Research</i> , 2014, 74, 5229-5243.	0.4	70
76	Comparisons and performance evaluations of RNA-seq alignment tools. , 2014, , .		4
77	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
78	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
79	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
80	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
81	Identification of Gene Expression Biomarkers for Predicting Radiation Exposure. <i>Scientific Reports</i> , 2014, 4, 6293.	1.6	39
82	Utilizing Multiple in Silico Analyses to Identify Putative Causal SCN5A Variants in Brugada Syndrome. <i>Scientific Reports</i> , 2014, 4, 3850.	1.6	21
83	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
84	ADAM9 Up-Regulates N-Cadherin via miR-218 Suppression in Lung Adenocarcinoma Cells. <i>PLoS ONE</i> , 2014, 9, e94065.	1.1	32
85	Concurrent analysis of copy number variation and gene expression: application in paired non-smoking female lung cancer patients. <i>International Journal of Data Mining and Bioinformatics</i> , 2013, 8, 92.	0.1	0
86	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
87	Transcription of Tnfrsf3 Is Regulated by NF- $\kappa$ B and p38 via C/EBP $\beta$ in Activated Macrophages. <i>PLoS ONE</i> , 2013, 8, e73153.	1.1	32
88	MicroRNA-449a Enhances Radiosensitivity in CL1-0 Lung Adenocarcinoma Cells. <i>PLoS ONE</i> , 2013, 8, e62383.	1.1	40
89	Concurrent Gene Signatures for Han Chinese Breast Cancers. <i>PLoS ONE</i> , 2013, 8, e76421.	1.1	65
90	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

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91	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
92	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
93	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
94	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
95	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
96	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
97	miRSystem: An Integrated System for Characterizing Enriched Functions and Pathways of MicroRNA Targets. <i>PLoS ONE</i> , 2012, 7, e42390.	1.1	277
98	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
99	Genetic Polymorphisms of a Novel Vascular Susceptibility Gene, <i>Ninjurin2</i> (NINJ2), Are Associated with a Decreased Risk of Alzheimer's Disease. <i>PLoS ONE</i> , 2011, 6, e20573.	1.1	25
100	Down-Regulation of NDRG1 Promotes Migration of Cancer Cells during Reoxygenation. <i>PLoS ONE</i> , 2011, 6, e24375.	1.1	26
101	Integrated Analyses of Copy Number Variations and Gene Expression in Lung Adenocarcinoma. <i>PLoS ONE</i> , 2011, 6, e24829.	1.1	68
102	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
103	IL-1 $\beta$ -driven neutrophilia preserves antibacterial defense in the absence of the kinase IKK $\beta$ . <i>Nature Immunology</i> , 2011, 12, 144-150.	7.0	102
104	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
105	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
106	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
107	Concurrent analysis of copy number variations and expression profiles to identify genes associated with tumorigenesis and survival outcome in lung adenocarcinoma. , 2010, , .		1
108	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

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109	Utilizing Cox regression model to assess the relations between predefined gene sets and the survival outcome of lung adenocarcinoma. , 2010, , .		0
110	Comparison of triple negative breast cancer between Asian and western data sets. , 2010, , .		0
111	Concurrent analysis of copy number variation and gene expression: Application in paired non-smoking female lung cancer patients. , 2010, , .		0
112	Projecting partial least square and principle component regression across microarray studies. , 2010, , .		0
113	Abstract 1993: Higher activity of cell proliferation is associated with poor survival in lung adenocarcinoma. , 2010, , .		0
114	Abstract 2944: Genome-wide transcriptional modulation screening in non-smoking female lung cancer in Taiwan. , 2010, , .		0
115	Abstract 112: Concurrent analysis between copy number variation and gene expression of non-smoking lung cancer females in Taiwan. , 2010, , .		0
116	Abstract 3977: Gene-expression signature specifically associated with triple-negative breast cancer pertaining to asian ethnicity. , 2010, , .		0
117	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
118	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
119	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
120	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
121	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
122	Catecholamines in hyperpnoea-induced airway constriction of guinea pigs. <i>Autonomic and Autacoid Pharmacology</i> , 2001, 21, 151-157.	0.7	1
123	Attenuation of isocapnic hyperpnoea-induced guinea-pig bronchoconstriction by chronic hypoxia. <i>European Respiratory Journal</i> , 1998, 11, 1075-1080.	3.1	5