Xin Lai

List of Publications by Year
in descending order

42 papers	1,126 citations	430442 18 h-index	414034 32 g-index
50 all docs	50 docs citations	50 times ranked	1721 citing authors

#	Article	IF	Citations
1	Understanding microRNA-mediated gene regulatory networks through mathematical modelling. Nucleic Acids Research, 2016, 44, 6019-6035.	6.5	135
2	Systems biology-based investigation of cooperating microRNAs as monotherapy or adjuvant therapy in cancer. Nucleic Acids Research, 2019, 47, 7753-7766.	6.5	126
3	Computational analysis of target hub gene repression regulated by multiple and cooperative miRNAs. Nucleic Acids Research, 2012, 40, 8818-8834.	6.5	77
4	Artificial intelligence in cancer target identification and drug discovery. Signal Transduction and Targeted Therapy, 2022, 7, 156.	7.1	77
5	Cooperative gene regulation by microRNA pairs and their identification using a computational workflow. Nucleic Acids Research, 2014, 42, 7539-7552.	6.5	72
6	MiR-205-5p and miR-342-3p cooperate in the repression of the E2F1 transcription factor in the context of anticancer chemotherapy resistance. Theranostics, 2018, 8, 1106-1120.	4.6	59
7	Kinetic Modeling–Based Detection of Genetic Signatures That Provide Chemoresistance via the E2F1-p73/DNp73-miR-205 Network. Cancer Research, 2013, 73, 3511-3524.	0.4	56
8	Exosomal lncRNAs and cancer: connecting the missing links. Bioinformatics, 2019, 35, 352-360.	1.8	51
9	MicroRNA-Regulated Networks: The Perfect Storm for Classical Molecular Biology, the Ideal Scenario for Systems Biology. Advances in Experimental Medicine and Biology, 2013, 774, 55-76.	0.8	50
10	Serum levels of miR-320 family members are associated with clinical parameters and diagnosis in prostate cancer patients. Oncotarget, 2018, 9, 10402-10416.	0.8	44
11	A gene regulatory architecture that controls region‐independent dynamics of oligodendrocyte differentiation. Glia, 2019, 67, 825-843.	2.5	36
12	A Systems' Biology Approach to Study MicroRNA-Mediated Gene Regulatory Networks. BioMed Research International, 2013, 2013, 1-15.	0.9	32
13	Modeling miRNA Regulation in Cancer Signaling Systems: miR-34a Regulation of the p53/Sirt1 Signaling Module. Methods in Molecular Biology, 2012, 880, 87-108.	0.4	25
14	Multiplicity of Mathematical Modeling Strategies to Search for Molecular and Cellular Insights into Bacteria Lung Infection. Frontiers in Physiology, 2017, 8, 645.	1.3	24
15	Innate extracellular vesicles from melanoma patients suppress β-catenin in tumor cells by miRNA-34a. Life Science Alliance, 2019, 2, e201800205.	1.3	22
16	THP-1-derived macrophages render lung epithelial cells hypo-responsive to Legionella pneumophila – a systems biology study. Scientific Reports, 2017, 7, 11988.	1.6	21
17	Third-Kind Encounters in Biomedicine: Immunology Meets Mathematics and Informatics to Become Quantitative and Predictive. Methods in Molecular Biology, 2016, 1386, 135-179.	0.4	20
18	Asthma phenotyping, therapy, and prevention: what can we learn from systems biology?. Pediatric Research, 2013, 73, 543-552.	1.1	19

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19	Model-based genotype-phenotype mapping used to investigate gene signatures of immune sensitivity and resistance in melanoma micrometastasis. Scientific Reports, 2016, 6, 24967.	1.6	19
20	A multi-level model accounting for the effects of JAK2-STAT5 signal modulation in erythropoiesis. Computational Biology and Chemistry, 2009, 33, 312-324.	1.1	18
21	RNA Sequencing of Collecting Duct Renal Cell Carcinoma Suggests an Interaction between miRNA and Target Genes and a Predominance of Deregulated Solute Carrier Genes. Cancers, 2020, 12, 64.	1.7	18
22	A new semisynthetic cardenolide analog 3Î²-[2-(1-amantadine)- 1-on-ethylamine]-digitoxigenin (AMANTADIG) affects G2/M cell cycle arrest and miRNA expression profiles and enhances proapoptotic survivin-2B expression in renal cell carcinoma cell lines. Oncotarget, 2017, 8, 11676-11691.	0.8	18
23	Integration of sensitivity and bifurcation analysis to detect critical processes in a model combining signalling and cell population dynamics. International Journal of Systems Science, 2010, 41, 81-105.	3.7	17
24	A disease networkâ€based deep learning approach for characterizing melanoma. International Journal of Cancer, 2022, 150, 1029-1044.	2.3	16
25	Bacterial Adherence and Dwelling Probability: Two Drivers of Early Alveolar Infection by Streptococcus pneumoniae Identified in Multi-Level Mathematical Modeling. Frontiers in Cellular and Infection Microbiology, 2018, 8, 159.	1.8	10
26	The histone demethylase JMJD2B is critical for p53-mediated autophagy and survival in Nutlin-treated cancer cells. Journal of Biological Chemistry, 2019, 294, 9186-9197.	1.6	10
27	Model-based investigation of the transcriptional activity of p53 and its feedback loop regulation via 14-3-3Ïƒ. IET Systems Biology, 2011, 5, 293-307.	0.8	8
28	Network- and systems-based re-engineering of dendritic cells with non-coding RNAs for cancer immunotherapy. Theranostics, 2021, 11, 1412-1428.	4.6	8
29	MicroRNA Clusters. , 2013, , 1310-1314.		8
30	Mathematical Modelling in Biomedicine: A Primer for the Curious and the Skeptic. International Journal of Molecular Sciences, 2021, 22, 547.	1.8	7
31	Computational analysis and modeling the effectiveness of â€˜Zanamivirâ€™ targeting neuraminidase protein in pandemic H1N1 strains. Infection, Genetics and Evolution, 2011, 11, 1072-1082.	1.0	4
32	Systems Medicine for Lung Diseases: Phenotypes and Precision Medicine in Cancer, Infection, and Allergy. Methods in Molecular Biology, 2016, 1386, 119-133.	0.4	4
33	Multi-Level Computational Modeling of Anti-Cancer Dendritic Cell Vaccination Utilized to Select Molecular Targets for Therapy Optimization. Frontiers in Cell and Developmental Biology, 2021, 9, 746359.	1.8	3
34	Modeling miRNA regulation in signaling networks: miR-34a regulation of the p53/Sirt1 module. Nature Precedings, 2010, , .	0.1	2
35	Is radiotherapy the best option for treating hepatocellular carcinoma with portal vein tumour thrombosis?. Liver International, 2017, 37, 307-308.	1.9	2
36	MicroRNA Regulation, Time Delay. , 2013, , 1331-1334.		1

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37	Abstract 1089: Cardiac glycosides affect miRNA expression profiles in renal cell carcinoma cell lines. Cancer Research, 2016, 76, 1089-1089.	0.4	1
38	MicroRNA Regulation, Feed-Forward Loops. , 2013, , 1324-1328.		1
39	Target Hub. , 2013, , 2134-2138.		1
40	Sepsis and Autoimmune Disease: Pathology, Systems Medicine, and Artificial Intelligence. , 2021, , 581-592.		0
41	Low-dose ultra-fractionated radiotherapy as a chemosensitizer of neoadjuvant chemotherapy for locally advanced nasopharyngeal carcinoma: A preliminary results of the phase II trial.. Journal of Clinical Oncology, 2021, 39, e18022-e18022.	0.8	0
42	Nonlinear Dynamics, miRNA Circuits. , 2013, , 1541-1545.		0