

# Xiaohua Douglas Zhang

## List of Publications by Year in descending order

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101  
papers

3,302  
citations

236612

25  
h-index

161609

54  
g-index

109  
all docs

109  
docs citations

109  
times ranked

4785  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-Scale RNAi Screen for Host Factors Required for HIV Replication. <i>Cell Host and Microbe</i> , 2008, 4, 495-504.	5.1	689
2	A pair of new statistical parameters for quality control in RNA interference high-throughput screening assays. <i>Genomics</i> , 2007, 89, 552-561.	1.3	169
3	Illustration of SSMD, z Score, SSMD*, z* Score, and t Statistic for Hit Selection in RNAi High-Throughput Screens. <i>Journal of Biomolecular Screening</i> , 2011, 16, 775-785.	2.6	166
4	Median Absolute Deviation to Improve Hit Selection for Genome-Scale RNAi Screens. <i>Journal of Biomolecular Screening</i> , 2008, 13, 149-158.	2.6	163
5	Inhibition of Calcineurin-mediated Endocytosis and Î±-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid (AMPA) Receptors Prevents Amyloid Î² Oligomer-induced Synaptic Disruption. <i>Journal of Biological Chemistry</i> , 2010, 285, 7619-7632.	1.6	158
6	Statins induce apoptosis in rat and human myotube cultures by inhibiting protein geranylgeranylation but not ubiquinone. <i>Toxicology and Applied Pharmacology</i> , 2004, 200, 237-250.	1.3	119
7	Analysis of global prevalence of antibiotic resistance in <i>Acinetobacter baumannii</i> infections disclosed a faster increase in OECD countries. <i>Emerging Microbes and Infections</i> , 2018, 7, 1-10.	3.0	118
8	Analysis of single-locus tests to detect gene/disease associations. <i>Genetic Epidemiology</i> , 2005, 28, 207-219.	0.6	92
9	Robust statistical methods for hit selection in RNA interference high-throughput screening experiments. <i>Pharmacogenomics</i> , 2006, 7, 299-309.	0.6	90
10	The Use of Strictly Standardized Mean Difference for Hit Selection in Primary RNA Interference High-Throughput Screening Experiments. <i>Journal of Biomolecular Screening</i> , 2007, 12, 497-509.	2.6	90
11	A New Method with Flexible and Balanced Control of False Negatives and False Positives for Hit Selection in RNA Interference High-Throughput Screening Assays. <i>Journal of Biomolecular Screening</i> , 2007, 12, 645-655.	2.6	79
12	Novel Analytic Criteria and Effective Plate Designs for Quality Control in Genome-Scale RNAi Screens. <i>Journal of Biomolecular Screening</i> , 2008, 13, 363-377.	2.6	73
13	Role of STAT5a in regulation of sex-specific gene expression in female but not male mouse liver revealed by microarray analysis. <i>Physiological Genomics</i> , 2007, 31, 63-74.	1.0	64
14	Public Health Measures and the Control of COVID-19 in China. <i>Clinical Reviews in Allergy and Immunology</i> , 2023, 64, 1-16.	2.9	52
15	Complexity Change in Cardiovascular Disease. <i>International Journal of Biological Sciences</i> , 2017, 13, 1320-1328.	2.6	50
16	Detection of sputum by interpreting the time-frequency distribution of respiratory sound signal using image processing techniques. <i>Bioinformatics</i> , 2018, 34, 820-827.	1.8	42
17	Multicellular gene network analysis identifies a macrophage-related gene signature predictive of therapeutic response and prognosis of gliomas. <i>Journal of Translational Medicine</i> , 2019, 17, 159.	1.8	40
18	A Lung Sound Category Recognition Method Based on Wavelet Decomposition and BP Neural Network. <i>International Journal of Biological Sciences</i> , 2019, 15, 195-207.	2.6	40

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19	Integration of association statistics over genomic regions using Bayesian adaptive regression splines. <i>Human Genomics</i> , 2003, 1, 20-9.	1.4	36
20	Statins and PPAR $\alpha$ agonists induce myotoxicity in differentiated rat skeletal muscle cultures but do not exhibit synergy with co-treatment. <i>Toxicology and Applied Pharmacology</i> , 2005, 208, 210-221.	1.3	35
21	Integrating Experimental and Analytic Approaches to Improve Data Quality in Genome-wide RNAi Screens. <i>Journal of Biomolecular Screening</i> , 2008, 13, 378-389.	2.6	35
22	Strictly Standardized Mean Difference, Standardized Mean Difference and Classical <i>t</i> -test for the Comparison of Two Groups. <i>Statistics in Biopharmaceutical Research</i> , 2010, 2, 292-299.	0.6	34
23	Hit selection with false discovery rate control in genome-scale RNAi screens. <i>Nucleic Acids Research</i> , 2008, 36, 4667-4679.	6.5	32
24	CGManalyzer: an R package for analyzing continuous glucose monitoring studies. <i>Bioinformatics</i> , 2018, 34, 1609-1611.	1.8	31
25	Are exposure to cytomegalovirus and genetic variation on chromosome 6p joint risk factors for schizophrenia?. <i>Annals of Medicine</i> , 2007, 39, 145-153.	1.5	28
26	Influence of bronchial diameter change on the airflow dynamics based on a pressure-controlled ventilation system. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2929.	1.0	28
27	Prevalence patterns of allergen sensitization by region, gender, age, and season among patients with allergic symptoms in mainland China: A four-year multicenter study. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 589-593.	2.7	27
28	The Use of SSMD-Based False Discovery and False Nondiscovery Rates in Genome-Scale RNAi Screens. <i>Journal of Biomolecular Screening</i> , 2010, 15, 1123-1131.	2.6	25
29	A genome wide analysis of ubiquitin ligases in APP processing identifies a novel regulator of BACE1 mRNA levels. <i>Molecular and Cellular Neurosciences</i> , 2006, 33, 227-235.	1.0	24
30	Numerical simulation of volume-controlled mechanical ventilated respiratory system with 2 different lungs. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2852.	1.0	24
31	Studies on Aminoglycoside Susceptibility Identify a Novel Function of KsgA To Secure Translational Fidelity during Antibiotic Stress. <i>Antimicrobial Agents and Chemotherapy</i> , 2018, 62, .	1.4	23
32	A native-like bispecific antibody suppresses the inflammatory cytokine response by simultaneously neutralizing tumor necrosis factor-alpha and interleukin-17A. <i>Oncotarget</i> , 2017, 8, 81860-81872.	0.8	22
33	Determination of sample size in genome-scale RNAi screens. <i>Bioinformatics</i> , 2009, 25, 841-844.	1.8	21
34	Krebs Von den Lungen-6 as a predictive indicator for the risk of secondary pulmonary fibrosis and its reversibility in COVID-19 patients. <i>International Journal of Biological Sciences</i> , 2021, 17, 1565-1573.	2.6	21
35	Genome-wide screens for effective siRNAs through assessing the size of siRNA effects. <i>BMC Research Notes</i> , 2008, 1, 33.	0.6	20
36	A method for effectively comparing gene effects in multiple conditions in RNAi and expression-profiling research. <i>Pharmacogenomics</i> , 2009, 10, 345-358.	0.6	20

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37	Entropy for the Complexity of Physiological Signal Dynamics. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1028, 39-53.	0.8	20
38	Pathway-Based Analysis of Genome-Wide siRNA Screens Reveals the Regulatory Landscape of App Processing. <i>PLoS ONE</i> , 2015, 10, e0115369.	1.1	19
39	An Effective Method for Controlling False Discovery and False Nondiscovery Rates in Genome-Scale RNAi Screens. <i>Journal of Biomolecular Screening</i> , 2010, 15, 1116-1122.	2.6	18
40	An Improved Method of Handling Missing Values in the Analysis of Sample Entropy for Continuous Monitoring of Physiological Signals. <i>Entropy</i> , 2019, 21, 274.	1.1	18
41	A Lentivirus-Mediated Genetic Screen Identifies Dihydrofolate Reductase (DHFR) as a Modulator of $\beta$ -Catenin/GSK3 Signaling. <i>PLoS ONE</i> , 2009, 4, e6892.	1.1	18
42	Classification of Sputum Sounds Using Artificial Neural Network and Wavelet Transform. <i>International Journal of Biological Sciences</i> , 2018, 14, 938-945.	2.6	17
43	Factors Affecting the Antibody Immunogenicity of Vaccines against SARS-CoV-2: A Focused Review. <i>Vaccines</i> , 2021, 9, 869.	2.1	17
44	Conservation analysis of SARS-CoV-2 spike suggests complicated viral adaptation history from bat to human. <i>Evolution, Medicine and Public Health</i> , 2020, 2020, 290-303.	1.1	17
45	A microarray platform comparison for neuroscience applications. <i>Journal of Neuroscience Methods</i> , 2004, 132, 57-68.	1.3	16
46	Entropy change of biological dynamics in COPD. <i>International Journal of COPD</i> , 2017, Volume 12, 2997-3005.	0.9	16
47	Precision Medicine, Personalized Medicine, Omics and Big Data: Concepts and Relationships. <i>Journal of Pharmacogenomics &amp; Pharmacoproteomics</i> , 2015, 06, .	0.2	15
48	Transcriptome analysis of peripheral whole blood identifies crucial lncRNAs implicated in childhood asthma. <i>BMC Medical Genomics</i> , 2020, 13, 136.	0.7	15
49	Decreased complexity of glucose dynamics preceding the onset of diabetes in mice and rats. <i>PLoS ONE</i> , 2017, 12, e0182810.	1.1	15
50	cSSMD: assessing collective activity for addressing off-target effects in genome-scale RNA interference screens. <i>Bioinformatics</i> , 2011, 27, 2775-2781.	1.8	14
51	ANSYS-MATLAB co-simulation of mucus flow distribution and clearance effectiveness of a new simulated cough device. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2978.	1.0	14
52	Error Rates and Powers in Genome-Scale RNAi Screens. <i>Journal of Biomolecular Screening</i> , 2009, 14, 230-238.	2.6	13
53	Re-analysis of the coral <i>Acropora digitifera</i> transcriptome reveals a complex lncRNAs-mRNAs interaction network implicated in <i>Symbiodinium</i> infection. <i>BMC Genomics</i> , 2019, 20, 48.	1.2	13
54	A comprehensive comparison and overview of R packages for calculating sample entropy. <i>Biology Methods and Protocols</i> , 2019, 4, bpz016.	1.0	13

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55	displayHTS: a R package for displaying data and results from high-throughput screening experiments. <i>Bioinformatics</i> , 2013, 29, 794-796.	1.8	12
56	Increase in Indoor Inhalant Allergen Sensitivity During the COVID-19 Pandemic in South China: A Cross-Sectional Study from 2017 to 2020. <i>Journal of Asthma and Allergy</i> , 2021, Volume 14, 1185-1195.	1.5	12
57	Elevated serum levels of periostin in patients with allergic bronchopulmonary aspergillosis. <i>Mycoses</i> , 2019, 62, 780-789.	1.8	11
58	Meta-analysis of adherence to highly active antiretroviral therapy in patients with HIV infection in China. <i>AIDS Care - Psychological and Socio-Medical Aspects of AIDS/HIV</i> , 2019, 31, 913-922.	0.6	11
59	Organism dual RNA-seq reveals the importance of BarA/UvrY in <i>Vibrio parahaemolyticus</i> virulence. <i>FASEB Journal</i> , 2020, 34, 7561-7577.	0.2	11
60	Heparin-binding protein levels correlate with aggravation and multiorgan damage in severe COVID-19. <i>ERJ Open Research</i> , 2021, 7, 00741-2020.	1.1	11
61	Assessing the size of gene or RNAi effects in multifactor high-throughput experiments. <i>Pharmacogenomics</i> , 2010, 11, 199-213.	0.6	9
62	A dual-specific IGF-I/II human engineered antibody domain inhibits IGF signaling in breast cancer cells. <i>International Journal of Biological Sciences</i> , 2018, 14, 799-806.	2.6	8
63	Entropy Change of Biological Dynamics in Asthmatic Patients and Its Diagnostic Value in Individualized Treatment: A Systematic Review. <i>Entropy</i> , 2018, 20, 402.	1.1	8
64	Short-term exposure to ambient air pollution and hospital visits for IgE-mediated allergy: A time-stratified case-crossover study in southern China from 2012 to 2019. <i>EClinicalMedicine</i> , 2021, 37, 100949.	3.2	8
65	Integrative omics analysis identifies biomarkers of idiopathic pulmonary fibrosis. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 66.	2.4	8
66	New advances in EMG control methods of anthropomorphic prosthetic hand. <i>Science China Technological Sciences</i> , 2017, 60, 1978-1979.	2.0	7
67	Inferring Sequential Order of Somatic Mutations during Tumorigenesis based on Markov Chain Model. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2015, 12, 1094-1103.	1.9	6
68	Transcriptome analysis reveals lncRNA-mediated complex regulatory network response to DNA damage in the liver tissue of <i>Rattus norvegicus</i> . <i>Journal of Cellular Physiology</i> , 2019, 234, 23216-23231.	2.0	6
69	Dissecting the heterogeneity and tumorigenesis of BRCA1 deficient mammary tumors via single cell RNA sequencing. <i>Theranostics</i> , 2021, 11, 9967-9987.	4.6	6
70	Clinical utility of heparin-binding protein as an acute-phase inflammatory marker in interstitial lung disease. <i>Journal of Leukocyte Biology</i> , 2022, , .	1.5	6
71	Differential HbA1c response in the placebo arm of DPP-4 inhibitor clinical trials conducted in China compared to other countries: a systematic review and meta-analysis. <i>BMC Pharmacology &amp; Toxicology</i> , 2016, 17, 40.	1.0	5
72	Long noncoding RNAs implicated in embryonic development in <i>Ybx1</i> knockout zebrafish. <i>FEBS Open Bio</i> , 2021, 11, 1259-1276.	1.0	5

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73	Screening and expressing HIV-1 specific antibody fragments in <i>Saccharomyces cerevisiae</i> . <i>Molecular Immunology</i> , 2018, 103, 279-285.	1.0	4
74	Fast Algorithm Based on Parallel Computing for Sample Entropy Calculation. <i>IEEE Access</i> , 2021, 9, 20223-20234.	2.6	4
75	The Molecule Sensitized Pattern of Atopic Dermatitis Patients Who Co-Sensitized to Shrimp, Cockroaches, Crab and House Dust Mites. <i>Journal of Asthma and Allergy</i> , 2021, Volume 14, 993-997.	1.5	4
76	Issues of Z-factor and an approach to avoid them for quality control in high-throughput screening studies. <i>Bioinformatics</i> , 2021, 36, 5299-5303.	1.8	4
77	Prediction Indicators for Acute Exacerbations of Chronic Obstructive Pulmonary Disease By Combining Non-linear analyses and Machine. , 2018, , .		3
78	Co-expression network analysis of lncRNAs and mRNAs in rat liver tissue reveals the complex interactions in response to pathogenic cytotoxicity. <i>International Journal of Biological Sciences</i> , 2019, 15, 2296-2307.	2.6	3
79	Epidemiological Characteristics of Influenza A and B in Macau, 2010â€“2018. <i>Virologica Sinica</i> , 2021, 36, 1144-1153.	1.2	3
80	A Genome-Wide siRNA Screen to Identify Modulators of Insulin Sensitivity and Gluconeogenesis. <i>PLoS ONE</i> , 2012, 7, e36384.	1.1	3
81	An effective analytic method for detecting tissue-specific genes in RNA-seq experiments. <i>Pharmacogenomics</i> , 2015, 16, 1769-1779.	0.6	2
82	Demonstrating the Potential of Using Transcutaneous Oxygen and Carbon Dioxide Tensions to Assess the Risk of Pressure Injuries. <i>International Journal of Biological Sciences</i> , 2018, 14, 1466-1471.	2.6	2
83	Gene fusion of IL7 involved in the regulation of idiopathic pulmonary fibrosis. <i>Therapeutic Advances in Respiratory Disease</i> , 2021, 15, 175346662199504.	1.0	2
84	Soluble form of suppression of tumorigenicity-2 predicts clinical stability of inpatients with community-acquired pneumonia. <i>Experimental Biology and Medicine</i> , 2021, 246, 2297-2306.	1.1	2
85	Contrast Variable Potentially Providing a Consistent Interpretation to Effect Sizes. <i>Journal of Biometrics &amp; Biostatistics</i> , 2010, , .	4.0	2
86	Profiles of sensitization and comorbidity in asthma patients with markedly increased serum total IgE (>1000kU/L). <i>Allergy and Asthma Proceedings</i> , 2022, 43, 124-132.	1.0	2
87	Introduction to Genome-Scale RNAi Research. , 0, , 3-12.		1
88	Standardized median difference for quality control in high-throughput screening. , 2012, , .		1
89	Contrast Variable for Group Comparisons in Biopharmaceutical Research. <i>Statistics in Biopharmaceutical Research</i> , 2012, 4, 228-239.	0.6	1
90	Analyzing Complexity and Fractality of Glucose Dynamics in a Pregnant Woman with Type 2 Diabetes under Treatment. <i>International Journal of Biological Sciences</i> , 2019, 15, 2373-2380.	2.6	1

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91	Major Grass Pollen Allergen Components and Cross-Reactive Carbohydrate Determinants in Mugwort-Sensitized Child Patients With Allergic Respiratory Disease in Western China. <i>Frontiers in Pediatrics</i> , 2022, 10, 816354.	0.9	1
92	Statistical Methods for Assessing the Size of siRNA Effects. , 0, , 154-188.		0
93	Advanced Designs and Statistical Methods for Genetic and Genomic Studies of Complex Diseases. <i>Journal of Probability and Statistics</i> , 2012, 2012, 1-3.	0.3	0
94	Bayesian adaptive determination of the sample size required to assure acceptably low adverse event risk. <i>Statistics in Medicine</i> , 2014, 33, 940-957.	0.8	0
95	Identification of Causal Mediation Models with an Unobserved Pre-treatment Confounder. <i>ICSA Book Series in Statistics</i> , 2016, , 241-262.	0.0	0
96	Analysis of Impact Factors of Multiscale Entropy. , 2018, , .		0
97	Application of Arrayed CRISPR/cas9 Screen and its Data Analysis: a Systematic Review. , 2018, , .		0
98	Analysis of the Complexity Patterns in Respiratory Data. , 2018, , .		0
99	An Improved Method for Using Sample Entropy to Reveal Medical Information in Data from Continuously Monitored Physiological Signals. , 2018, , .		0
100	Transcriptome analysis of human peripheral blood reveals key circRNAs implicated in Allergic bronchopulmonary aspergillosis. , 2018, , .		0
101	Comprehensive transcriptome analysis of peripheral blood unravels key lncRNAs implicated in ABPA and asthma. <i>PeerJ</i> , 2021, 9, e11453.	0.9	0