Bairong Shen

List of Publications by Citations

202 papers	3,518 citations	32 h-index	49 g-index
230 ext. papers	4,366 ext. citations	4.7 avg, IF	5.57 L-index

#	Paper	IF	Citations
202	Characterization of CA XIII, a novel member of the carbonic anhydrase isozyme family. *Journal of Biological Chemistry*, **2004**, 279, 2719-27	5.4	187
201	A practical comparison of de novo genome assembly software tools for next-generation sequencing technologies. *PLoS ONE*, **2011**, 6, e17915	3.7	158
200	Characterization of CA XV, a new GPI-anchored form of carbonic anhydrase. *Biochemical Journal*, **2005**, 392, 83-92	3.8	140
199	Biomedical text mining and its applications in cancer research. *Journal of Biomedical Informatics*, **2013**, 46, 200-11	10.2	138
198	Performance comparison and evaluation of software tools for microRNA deep-sequencing data analysis. *Nucleic Acids Research*, **2012**, 40, 4298-305	20.1	111
197	Identification of candidate miRNA biomarkers from miRNA regulatory network with application to prostate cancer. *Journal of Translational Medicine*, **2014**, 12, 66	8.5	74
196	The construction of an amino acid network for understanding protein structure and function. *Amino Acids*, **2014**, 46, 1419-39	3.5	69
195	Biomarker MicroRNAs for Diagnosis, Prognosis and Treatment of Hepatocellular Carcinoma: A Functional Survey and Comparison. *Scientific Reports*, **2016**, 6, 38311	4.9	59
194	Review of MARCH-INSIDE & complex networks prediction of drugs: ADMET, anti-parasite activity, metabolizing enzymes and cardiotoxicity proteome biomarkers. *Current Drug Metabolism*, **2010**, 11, 379-406	3.5	58
193	New genes drive the evolution of gene interaction networks in the human and mouse genomes. *Genome Biology*, **2015**, 16, 202	18.3	56
192	Two functional microRNA-126s repress a novel target gene p21-activated kinase 1 to regulate vascular integrity in zebrafish. *Circulation Research*, **2011**, 108, 201-9	15.7	56
191	Screening key microRNAs for castration-resistant prostate cancer based on miRNA/mRNA functional synergistic network. *Oncotarget*, **2015**, 6, 43819-30	3.3	54
190	Electrocardiogram generation with a bidirectional LSTM-CNN generative adversarial network. *Scientific Reports*, **2019**, 9, 6734	4.9	51
189	Residue interaction network analysis of Dronpa and a DNA clamp. *Journal of Theoretical Biology*, **2014**, 348, 55-64	2.3	47
188	Ginsenoside Rg3 targets cancer stem cells and tumor angiogenesis to inhibit colorectal cancer progression in vivo. *International Journal of Oncology*, **2018**, 52, 127-138	4.4	45
187	Identification of microRNA as sepsis biomarker based on miRNAs regulatory network analysis. *BioMed Research International*, **2014**, 2014, 594350	3	45
186	Clear cell renal cell carcinoma associated microRNA expression signatures identified by an integrated bioinformatics analysis. *Journal of Translational Medicine*, **2013**, 11, 169	8.5	44

185	MicroRNA biomarker identification for pediatric acute myeloid leukemia based on a novel bioinformatics model. *Oncotarget*, **2015**, 6, 26424-36	3.3	43
184	Identifying novel prostate cancer associated pathways based on integrative microarray data analysis. *Computational Biology and Chemistry*, **2011**, 35, 151-8	3.6	43
183	Genome wide analysis of pathogenic SH2 domain mutations. *Proteins: Structure, Function and Bioinformatics*, **2008**, 72, 779-92	4.2	43
182	Evaluation and comparison of multiple aligners for next-generation sequencing data analysis. *BioMed Research International*, **2014**, 2014, 309650	3	41
181	Computer-aided biomarker discovery for precision medicine: data resources, models and applications. *Briefings in Bioinformatics*, **2019**, 20, 952-975	13.4	41
180	Translational biomedical informatics in the cloud: present and future. *BioMed Research International*, **2013**, 2013, 658925	3	40
179	Computational Analysis of Amino Acid Mutation: A Proteome Wide Perspective. *Current Proteomics*, **2009**, 6, 228-234	0.7	37
178	Catalytic mechanism investigation of lysine-specific demethylase 1 (LSD1): a computational study. *PLoS ONE*, **2011**, 6, e25444	3.7	36
177	Conservation and covariance in PH domain sequences: physicochemical profile and information theoretical analysis of XLA-causing mutations in the Btk PH domain. *Protein Engineering, Design and Selection*, **2004**, 17, 267-76	1.9	36
176	Knowledge-Guided Bioinformatics Model for Identifying Autism Spectrum Disorder Diagnostic MicroRNA Biomarkers. *Scientific Reports*, **2016**, 6, 39663	4.9	36
175	Genome-scale analysis of the metabolic networks of oleaginous Zygomycete fungi. *Gene*, **2013**, 521, 180-90	3.8	35
174	Long Non-coding RNAs in Urologic Malignancies: Functional Roles and Clinical Translation. *Journal of Cancer*, **2016**, 7, 1842-1855	4.5	35
173	Identification of novel microRNA regulatory pathways associated with heterogeneous prostate cancer. *BMC Systems Biology*, **2013**, 7 Suppl 3, S6	3.5	34
172	Discovery and characterization of long intergenic non-coding RNAs (lincRNA) module biomarkers in prostate cancer: an integrative analysis of RNA-Seq data. *BMC Genomics*, **2015**, 16 Suppl 7, S3	4.5	34
171	Wnt4, a pleiotropic signal for controlling cell polarity, basement membrane integrity, and antimüllerian hormone expression during oocyte maturation in the female follicle. *FASEB Journal*, **2014**, 28, 1568-81	0.9	33
170	Identification of biomarker microRNAs for predicting the response of colorectal cancer to neoadjuvant chemoradiotherapy based on microRNA regulatory network. *Oncotarget*, **2017**, 8, 2233-2248	3.3	32
169	PON-tstab: Protein Variant Stability Predictor. Importance of Training Data Quality. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	31
168	Physicochemical feature-based classification of amino acid mutations. *Protein Engineering, Design and Selection*, **2008**, 21, 37-44	1.9	31

167	Network modelling reveals the mechanism underlying colitis-associated colon cancer and identifies novel combinatorial anti-cancer targets. *Scientific Reports*, **2015**, 5, 14739	4.9	30
166	Systematic investigation of global coordination among mRNA and protein in cellular society. *BMC Genomics*, **2010**, 11, 364	4.5	30
165	Structure-based prediction of the effects of a missense variant on protein stability. *Amino Acids*, **2013**, 44, 847-55	3.5	29
164	PON-Sol: prediction of effects of amino acid substitutions on protein solubility. *Bioinformatics*, **2016**, 32, 2032-4	7.2	28
163	Investigation of the acetylation mechanism by GCN5 histone acetyltransferase. *PLoS ONE*, **2012**, 7, e36660	3.7	28
162	Biomarker microRNAs for prostate cancer metastasis: screened with a network vulnerability analysis model. *Journal of Translational Medicine*, **2018**, 16, 134	8.5	27
161	Investigating cellular network heterogeneity and modularity in cancer: a network entropy and unbalanced motif approach. *BMC Systems Biology*, **2016**, 10 Suppl 3, 65	3.5	26
160	Translational bioinformatics for diagnostic and prognostic prediction of prostate cancer in the next-generation sequencing era. *BioMed Research International*, **2013**, 2013, 901578	3	26
159	Comparison of Prognostic MicroRNA Biomarkers in Blood and Tissues for Gastric Cancer. *Journal of Cancer*, **2016**, 7, 95-106	4.5	26
158	Altered Expression Levels of MicroRNA-132 and Nurr1 in Peripheral Blood of Parkinson's Disease: Potential Disease Biomarkers. *ACS Chemical Neuroscience*, **2019**, 10, 2243-2249	5.7	26
157	Identification of the genes regulated by Wnt-4, a critical signal for commitment of the ovary. *Experimental Cell Research*, **2015**, 332, 163-78	4.2	25
156	Diagnosis value of the serum amyloid A test in neonatal sepsis: a meta-analysis. *BioMed Research International*, **2013**, 2013, 520294	3	25
155	Decoding competing endogenous RNA networks for cancer biomarker discovery. *Briefings in Bioinformatics*, **2020**, 21, 441-457	13.4	25
154	RankViaContact: ranking and visualization of amino acid contacts. *Bioinformatics*, **2003**, 19, 2161-2	7.2	23
153	Genome-wide analysis of the transcription factor binding preference of human bi-directional promoters and functional annotation of related gene pairs. *BMC Systems Biology*, **2011**, 5 Suppl 1, S2	3.5	22
152	Origination of new immunological functions in the costimulatory molecule B7-H3: the role of exon duplication in evolution of the immune system. *PLoS ONE*, **2011**, 6, e24751	3.7	22
151	ING4 suppresses hepatocellular carcinoma via a NF-κB/miR-155/FOXO3a signaling axis. *International Journal of Biological Sciences*, **2019**, 15, 369-385	11.2	21
150	CBD: a biomarker database for colorectal cancer. *Database: the Journal of Biological Databases and Curation*, **2018**, 2018,	5	21

149	Integrative analysis reveals disease-associated genes and biomarkers for prostate cancer progression. *BMC Medical Genomics*, **2014**, 7 Suppl 1, S3	3.7	21
148	Chromogranin-A Expression as a Novel Biomarker for Early Diagnosis of Colon Cancer Patients. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	20
147	Deciphering oncogenic drivers: from single genes to integrated pathways. *Briefings in Bioinformatics*, **2015**, 16, 413-28	13.4	20
146	Virtual screening and biological evaluation of novel small molecular inhibitors against protein arginine methyltransferase 1 (PRMT1). *Organic and Biomolecular Chemistry*, **2014**, 12, 9665-73	3.9	20
145	FH535, a β-catenin pathway inhibitor, represses pancreatic cancer xenograft growth and angiogenesis. *Oncotarget*, **2016**, 7, 47145-47162	3.3	20
144	Elevated Plasma microRNA-105-5p Level in Patients With Idiopathic Parkinson's Disease: A Potential Disease Biomarker. *Frontiers in Neuroscience*, **2019**, 13, 218	5.1	19
143	Inflammatory stimuli promote growth and invasion of pancreatic cancer cells through NF-**B** pathway dependent repression of PP2Ac. *Cell Cycle*, **2016**, 15, 381-93	4.7	19
142	Molecular signature of cancer at gene level or pathway level? Case studies of colorectal cancer and prostate cancer microarray data. *Computational and Mathematical Methods in Medicine*, **2013**, 2013, 909525	2.8	19
141	The topology and dynamics of protein complexes: insights from intra- molecular network theory. *Current Protein and Peptide Science*, **2013**, 14, 121-32	2.8	19
140	The preservation of bidirectional promoter architecture in eukaryotes: what is the driving force?. *BMC Systems Biology*, **2012**, 6 Suppl 1, S21	3.5	18
139	Computational Analysis of the Binding Specificities of PH Domains. *BioMed Research International*, **2015**, 2015, 792904	3	18
138	Key regulators in prostate cancer identified by co-expression module analysis. *BMC Genomics*, **2014**, 15, 1015	4.5	18
137	Effect of halogen atoms (Cl, Br, I) on the structure and catalytic behavior of Ag(111) surface: a density functional theory study. *Surface Science*, **2000**, 459, 206-212	1.8	18
136	Top associated SNPs in prostate cancer are significantly enriched in cis-expression quantitative trait loci and at transcription factor binding sites. *Oncotarget*, **2014**, 5, 6168-77	3.3	18
135	BOC-MP study on the mechanism of partial oxidation of CH3OH to HCHO over a silver surface and the promoting effect of halogen to the catalyst. *Surface Science*, **1998**, 408, 128-136	1.8	17
134	Interactions Between Genetics, Lifestyle, and Environmental Factors for Healthcare. *Advances in Experimental Medicine and Biology*, **2017**, 1005, 167-191	3.6	16
133	Combined SVM-CRFs for biological named entity recognition with maximal bidirectional squeezing. *PLoS ONE*, **2012**, 7, e39230	3.7	16
132	Computational analysis of microRNA function in heart development. *Acta Biochimica Et Biophysica Sinica*, **2010**, 42, 662-70	2.8	16

131	Roles of surface and subsurface oxygen in the dehydrogenation of methanol on silver surface. *Chemical Physics Letters*, **2000**, 322, 1-8	2.5	16
130	MiRNA-BD: an evidence-based bioinformatics model and software tool for microRNA biomarker discovery. *RNA Biology*, **2018**, 15, 1093-1105	4.8	16
129	Network vulnerability-based and knowledge-guided identification of microRNA biomarkers indicating platinum resistance in high-grade serous ovarian cancer. *Clinical and Translational Medicine*, **2019**, 8, 28	5.7	16
128	SVR_CAF: an integrated score function for detecting native protein structures among decoys. *Proteins: Structure, Function and Bioinformatics*, **2014**, 82, 556-64	4.2	15
127	Potential Applications of DNA, RNA and Protein Biomarkers in Diagnosis, Therapy and Prognosis for Colorectal Cancer: A Study from Databases to AI-Assisted Verification. *Cancers*, **2019**, 11,	6.6	14
126	Network Biomarkers Constructed from Gene Expression and Protein-Protein Interaction Data for Accurate Prediction of Leukemia. *Journal of Cancer*, **2017**, 8, 278-286	4.5	14
125	Renyi Distribution Entropy Analysis of Short-Term Heart Rate Variability Signals and Its Application in Coronary Artery Disease Detection. *Frontiers in Physiology*, **2019**, 10, 809	4.6	14
124	Post genome-wide association studies functional characterization of prostate cancer risk loci. *BMC Genomics*, **2013**, 14 Suppl 8, S9	4.5	14
123	Novel Biomarker MicroRNAs for Subtyping of Acute Coronary Syndrome: A Bioinformatics Approach. *BioMed Research International*, **2016**, 2016, 4618323	3	14
122	Translational Informatics for Parkinson's Disease: from Big Biomedical Data to Small Actionable Alterations. *Genomics, Proteomics and Bioinformatics*, **2019**, 17, 415-429	6.5	14
121	Intrinsically disordered domains: Sequence ? disorder ? function relationships. *Protein Science*, **2019**, 28, 1652-1663	6.3	13
120	Physiological Informatics: Collection and Analyses of Data from Wearable Sensors and Smartphone for Healthcare. *Advances in Experimental Medicine and Biology*, **2017**, 1028, 17-37	3.6	12
119	Origination and evolution of orphan genes and de novo genes in the genome of Caenorhabditis elegans. *Science China Life Sciences*, **2019**, 62, 579-593	8.5	12
118	Biomarker Discovery for the Carcinogenic Heterogeneity Between Colon and Rectal Cancers Based on lncRNA-Associated ceRNA Network Analysis. *Frontiers in Oncology*, **2020**, 10, 535985	5.3	12
117	Amino acid contact energy networks impact protein structure and evolution. *Journal of Theoretical Biology*, **2014**, 355, 95-104	2.3	12
116	Amino acid network for the discrimination of native protein structures from decoys. *Current Protein and Peptide Science*, **2014**, 15, 522-8	2.8	12
115	A systems biology perspective on rational design of peptide vaccine against virus infections. *Current Topics in Medicinal Chemistry*, **2012**, 12, 1310-9	3	11
114	Towards patterns tree of gene coexpression in eukaryotic species. *Bioinformatics*, **2008**, 24, 1367-73	7.2	11

113	. *IEEE Access*, **2019**, 7, 159369-159378	3.5	11
112	Data-driven translational prostate cancer research: from biomarker discovery to clinical decision. *Journal of Translational Medicine*, **2020**, 18, 119	8.5	10
111	Identifying novel glioma associated pathways based on systems biology level meta-analysis. *BMC Systems Biology*, **2013**, 7 Suppl 2, S9	3.5	10
110	NF-Y influences directionality of transcription from the bidirectional Mrps12/Sarsm promoter in both mouse and human cells. *Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms*, **2009**, 1789, 432-42	6	10
109	Alterations of and Cytokines in the Peripheral Blood Mononuclear Cells: Combined Biomarkers for Parkinson's Disease. *Frontiers in Aging Neuroscience*, **2018**, 10, 392	5.3	10
108	How to Become a Smart Patient in the Era of Precision Medicine?. *Advances in Experimental Medicine and Biology*, **2017**, 1028, 1-16	3.6	9
107	MicroRNA Alterations for Diagnosis, Prognosis, and Treatment of Osteoporosis: A Comprehensive Review and Computational Functional Survey. *Frontiers in Genetics*, **2020**, 11, 181	4.5	9
106	Early Detection of Sudden Cardiac Death by Using Ensemble Empirical Mode Decomposition-Based Entropy and Classical Linear Features From Heart Rate Variability Signals. *Frontiers in Physiology*, **2020**, 11, 118	4.6	9
105	Translational Bioinformatics for Cholangiocarcinoma: Opportunities and Challenges. *International Journal of Biological Sciences*, **2018**, 14, 920-929	11.2	9
104	Node-Weighted Amino Acid Network Strategy for Characterization and Identification of Protein Functional Residues. *Journal of Chemical Information and Modeling*, **2018**, 58, 2024-2032	6.1	9
103	Effects of time point measurement on the reconstruction of gene regulatory networks. *Molecules*, **2010**, 15, 5354-68	4.8	9
102	Ab initio study on the adsorption and oxidation of HCHO with Ag2 cluster. *Computational and Theoretical Chemistry*, **1999**, 469, 157-161		9
101	An integrated text mining framework for metabolic interaction network reconstruction. *PeerJ*, **2016**, 4, e1811	3.1	9
100	Dynamic regulation of small RNAome during the early stage of cardiac differentiation from pluripotent embryonic stem cells. *Genomics Data*, **2017**, 12, 136-145		8
99	Ab initio study on the adsorption and dissociation process of methanol on a silver surface. *Computational and Theoretical Chemistry*, **1998**, 422, 191-195		8
98	Identification of Intrinsic Disorder in Complexes from the Protein Data Bank. *ACS Omega*, **2020**, 5, 17883-17891	3.5	8
97	Protein interaction network constructing based on text mining and reinforcement learning with application to prostate cancer. *IET Systems Biology*, **2015**, 9, 106-12	1.4	7
96	Novel MicroRNA Biomarkers for Colorectal Cancer Early Diagnosis and 5-Fluorouracil Chemotherapy Resistance but Not Prognosis: A Study from Databases to AI-Assisted Verifications. *Cancers*, **2020**, 12,	6.6	7

95	Yeast Network and Report of New Stochastic-Credibility Cell Cycle Models. *Current Bioinformatics*, **2011**, 6, 35-43	4.7	7
94	Pathway analysis of microRNAs in mouse heart development. *International Journal of Bioinformatics Research and Applications*, **2010**, 6, 12-20	0.9	7
93	Systems Health: A Transition from Disease Management Toward Health Promotion. *Advances in Experimental Medicine and Biology*, **2017**, 1028, 149-164	3.6	7
92	Identification of Key MicroRNAs and Mechanisms in Prostate Cancer Evolution Based on Biomarker Prioritization Model and Carcinogenic Survey. *Frontiers in Genetics*, **2020**, 11, 596826	4.5	7
91	MiR-378a-3p as a putative biomarker for hepatocellular carcinoma diagnosis and prognosis: Computational screening with experimental validation. *Clinical and Translational Medicine*, **2021**, 11, e307	5.7	7
90	Mechanisms of Mitochondrial Malfunction in Alzheimer's Disease: New Therapeutic Hope. *Oxidative Medicine and Cellular Longevity*, **2022**, 2022, 1-28	6.7	7
89	Network-Based Biomedical Data Analysis. *Advances in Experimental Medicine and Biology*, **2016**, 939, 309-332	3.6	6
88	MIRKB: a myocardial infarction risk knowledge base. *Database: the Journal of Biological Databases and Curation*, **2019**, 2019,	5	6
87	Newborn Screening in the Era of Precision Medicine. *Advances in Experimental Medicine and Biology*, **2017**, 1005, 47-61	3.6	6
86	Amino acid network for prediction of catalytic residues in enzymes: a comparison survey. *Current Protein and Peptide Science*, **2016**, 17, 41-51	2.8	6
85	Identification and functional annotation of genome-wide ER-regulated genes in breast cancer based on ChIP-Seq data. *Computational and Mathematical Methods in Medicine*, **2012**, 2012, 568950	2.8	6
84	Phenotype-genotype network construction and characterization: a case study of cardiovascular diseases and associated non-coding RNAs. *Database: the Journal of Biological Databases and Curation*, **2020**, 2020,	5	6
83	Topical Capsaicin for the Treatment of Neuropathic Pain. *Current Drug Metabolism*, **2021**, 22, 198-207	3.5	6
82	The fourth scientific discovery paradigm for precision medicine and healthcare: Challenges ahead. *Precision Clinical Medicine*, **2021**, 4, 80-84	6.7	6
81	Biobanks and Their Clinical Application and Informatics Challenges. *Advances in Experimental Medicine and Biology*, **2016**, 939, 241-257	3.6	5
80	Molecular dynamic simulation to explore the molecular basis of Btk-PH domain interaction with Ins(1,3,4,5)P4. *Scientific World Journal, The*, **2013**, 2013, 580456	2.2	5
79	A novel mutation in CD40 and its functional characterization. *Human Mutation*, **2009**, 30, 985-94	4.7	5
78	Computational inference and analysis of genetic regulatory networks via a supervised combinatorial-optimization pattern. *BMC Systems Biology*, **2010**, 4 Suppl 2, S3	3.5	5

77	Network Analysis of Protein Structures: The Comparison of Three Topologies. *Current Bioinformatics*, **2016**, 11, 480-489	4.7	5
76	Isolation, Docking and In silico ADME-T Studies of Acacianol: Novel Antibacterial Isoflavone Analogue Isolated from Acacia leucophloea Bark. *Current Drug Metabolism*, **2021**,	3.5	5
75	LIMS and Clinical Data Management. *Advances in Experimental Medicine and Biology*, **2016**, 939, 225-239	3.6	5
74	PCaLiStDB: a lifestyle database for precision prevention of prostate cancer. *Database: the Journal of Biological Databases and Curation*, **2020**, 2020,	5	5
73	The landscape of emerging ceRNA crosstalks in colorectal cancer: Systems biological perspectives and translational applications. *Clinical and Translational Medicine*, **2020**, 10, e153	5.7	5
72	A Ferroptosis-Related Gene Signature Identified as a Novel Prognostic Biomarker for Colon Cancer. *Frontiers in Genetics*, **2021**, 12, 692426	4.5	5
71	PCLiON: An Ontology for Data Standardization and Sharing of Prostate Cancer Associated Lifestyles. *International Journal of Medical Informatics*, **2021**, 145, 104332	5.3	5
70	CHDGKB: a knowledgebase for systematic understanding of genetic variations associated with non-syndromic congenital heart disease. *Database: the Journal of Biological Databases and Curation*, **2020**, 2020,	5	4
69	Informatics for Precision Medicine and Healthcare. *Advances in Experimental Medicine and Biology*, **2017**, 1005, 1-20	3.6	4
68	Protein-protein interaction network constructing based on text mining and reinforcement learning with application to prostate cancer **2014**,		4
67	MODEL-BASED IDENTIFICATION AND ADAPTIVE CONTROL OF THE CORE MODULE IN A TYPICAL CELL CYCLE PATHWAY VIA NETWORK AND SYSTEM CONTROL THEORIES. *International Journal of Modeling, Simulation, and Scientific Computing*, **2009**, 12, 21-43	0.8	4
66	Natural Products for the Management of Castration-Resistant Prostate Cancer: Special Focus on Nanoparticles Based Studies. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 745177	5.7	4
65	Natural Products for the Prevention and Control of the COVID-19 Pandemic: Sustainable Bioresources.. *Frontiers in Pharmacology*, **2021**, 12, 758159	5.6	4
64	Bergenin - a biologically active scaffold: Nanotechnological perspectives. *Current Topics in Medicinal Chemistry*, **2021**,	3	4
63	Natural Product-Based Studies for the Management of Castration-Resistant Prostate Cancer: Computational to Clinical Studies. *Frontiers in Pharmacology*, **2021**, 12, 732266	5.6	4
62	CRC-EBD: Epigenetic Biomarker Database for Colorectal Cancer. *Frontiers in Genetics*, **2020**, 11, 907	4.5	4
61	ANCA: A Web Server for Amino Acid Networks Construction and Analysis. *Frontiers in Molecular Biosciences*, **2020**, 7, 582702	5.6	4
60	QSCR Analysis of Cytotoxicity of 6-Fluoro-3-(4H-1,2,4-triazol-3-yl)quinolin-4(1H)-ones on Chinese Hamster Ovary Cell Line: Design of REPUBLIC1986. *Current Medicinal Chemistry*, **2021**,	4.3	4

#	Reference	IF	Cit
59	Impacts of biomedical hashtag-based Twitter campaign: #DHPSP utilization for promotion of open innovation in digital health, patient safety, and personalized medicine. *Current Research in Biotechnology*, **2021**, 3, 146-153	4.8	4
58	XML, Ontologies, and Their Clinical Applications. *Advances in Experimental Medicine and Biology*, **2016**, 939, 259-287	3.6	3
57	NDDVD: an integrated and manually curated Neurodegenerative Diseases Variation Database. *Database: the Journal of Biological Databases and Curation*, **2018**, 2018,	5	3
56	Small RNAome sequencing delineates the small RNA landscape of pluripotent adult stem cells in the planarian. *Genomics Data*, **2017**, 14, 114-125		3
55	Heart Rate Variability Based Prediction of Personalized Drug Therapeutic Response: The Present Status and the Perspectives. *Current Topics in Medicinal Chemistry*, **2020**, 20, 1640-1650	3	3
54	ADMET Evaluation of Natural DPP-IV Inhibitors for Rational Drug Design against Diabetes. *Current Drug Metabolism*, **2020**, 21, 768-777	3.5	3
53	Regulation of Pain Genes-Capsaicin vs Resiniferatoxin: Reassessment of Transcriptomic Data. *Frontiers in Pharmacology*, **2020**, 11, 551786	5.6	3
52	Data-driven microbiota biomarker discovery for personalized drug therapy of cardiovascular disease. *Pharmacological Research*, **2020**, 161, 105225	10.2	3
51	iODA: An integrated tool for analysis of cancer pathway consistency from heterogeneous multi-omics data. *Journal of Biomedical Informatics*, **2020**, 112, 103605	10.2	3
50	CMBD: a manually curated cancer metabolic biomarker knowledge database. *Database: the Journal of Biological Databases and Curation*, **2021**, 2021,	5	3
49	Herbal Resources to Combat a Progressive & Degenerative Nervous System Disorder- Parkinson's Disease. *Current Drug Targets*, **2021**, 22, 609-630	3	3
48	Understanding Amino Acid Mutations in Hepatitis B Virus Proteins for Rational Design of Vaccines and Drugs. *Advances in Protein Chemistry and Structural Biology*, **2015**, 99, 131-53	5.3	2
47	InCoB2013 introduces Systems Biology as a major conference theme. *BMC Systems Biology*, **2013**, 7 Suppl 3, S1	3.5	2
46	Segmentation of neuronal structures using SARSA (λ)-based boundary amendment with reinforced gradient-descent curve shape fitting. *PLoS ONE*, **2014**, 9, e90873	3.7	2
45	Review of computer-aided models for predicting collagen stability. *Current Computer-Aided Drug Design*, **2011**, 7, 287-303	1.4	2
44	Identification of Network Biomarkers for Cancer Diagnosis. *Translational Bioinformatics*, **2013**, 257-275		2
43	Altered nitric oxide induced by gut microbiota reveals the connection between central precocious puberty and obesity. *Clinical and Translational Medicine*, **2021**, 11, e299	5.7	2
42	Unleashing the Potential of Microbial Natural Products in Drug Discovery: Focusing on Streptomyces as Antimicrobials Goldmine. *Current Topics in Medicinal Chemistry*, **2021**, 21, 2374-2396	3	2

41	MicroRNA expression analysis reveals significant biological pathways in human prostate cancer **2011**,		1
40	A Non-Random Gait through the Human Genome **2009**,		1
39	Wavelet Transform Based Protein Decoy Discrimination **2009**,		1
38	System Stability Via Stepping Optimal Control: Theory and Applications **2007**, 463-472		1
37	Phytomedicine in Disease Management: In-Silico Analysis of the Binding Affinity of Artesunate and Azadirachtin for Malaria Treatment.. *Frontiers in Pharmacology*, **2021**, 12, 751032	5.6	1
36	Disease associated protein-protein interaction network reconstruction based on comprehensive influence analysis		1
35	Identification of Biomarkers for Pharmacological Activity. *Translational Bioinformatics*, **2013**, 189-205		1
34	Identification of Cancer MicroRNA Biomarkers Based on miRNA⎯hRNA Network. *Translational Bioinformatics*, **2013**, 153-167		1
33	HFBD: a biomarker knowledge database for heart failure heterogeneity and personalized applications. *Bioinformatics*, **2021**,	7.2	1
32	Whole-genome sequencing identifies rare missense variants of WNT16 and ERVW-1 causing the systemic lupus erythematosus.. *Genomics*, **2022**, 110332	4.3	1
31	The Genus : Phytochemical and Ethnopharmacological Perspectives.. *Frontiers in Pharmacology*, **2022**, 13, 769111	5.6	1
30	Bioinformatics for the Origin and Evolution of Viruses.. *Advances in Experimental Medicine and Biology*, **2022**, 1368, 53-71	3.6	1
29	Vaccines and Immunoinformatics for Vaccine Design.. *Advances in Experimental Medicine and Biology*, **2022**, 1368, 95-110	3.6	1
28	Translational Informatics for Natural Products as Antidepressant Agents.. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 738838	5.7	0
27	A Novel Immune-Gene Pair Signature Revealing the Tumor Microenvironment Features and Immunotherapy Prognosis of Muscle-Invasive Bladder Cancer.. *Frontiers in Genetics*, **2021**, 12, 764184	4.5	0
26	An update on the CHDGKB for the systematic understanding of risk factors associated with non-syndromic congenital heart disease. *Computational and Structural Biotechnology Journal*, **2021**, 19, 5741-5751	6.8	0
25	Network Biomarkers for Diagnosis and Prognosis of Human Prostate Cancer. *Translational Bioinformatics*, **2013**, 207-220		0
24	Modeling and Simulation Studies of Complex Biological Systems for Precision Medicine and Healthcare. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2019**, 16, 91-92	3	0

23	Multi-omics network characterization reveals novel microRNA biomarkers and mechanisms for diagnosis and subtyping of kidney transplant rejection. *Journal of Translational Medicine*, **2021**, 19, 346	8.5	0
22	Both simulation and sequencing data reveal coinfections with multiple SARS-CoV-2 variants in the COVID-19 pandemic.. *Computational and Structural Biotechnology Journal*, **2022**, 20, 1389-1401	6.8	0
21	Natural Kinase Inhibitors for the Treatment and Management of Endometrial/Uterine Cancer: Preclinical to Clinical Studies.. *Frontiers in Pharmacology*, **2022**, 13, 801733	5.6	0
20	A collective statement in support of saving pangolins.. *Science of the Total Environment*, **2022**, 153666	10.2	0
19	LCK and CD3E Orchestrate the Tumor Microenvironment and Promote Immunotherapy Response and Survival of Muscle-Invasive Bladder Cancer Patients.. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 748280	5.7	0
18	Challenging the Illusion: Health Equity Amidst New Variants.. *International Journal of Public Health*, **2022**, 67, 1604896	4	0
17	Loss of CHGA Protein as a Potential Biomarker for Colon Cancer Diagnosis: A Study on Biomarker Discovery by Machine Learning and Confirmation by Immunohistochemistry in Colorectal Cancer Tissue Microarrays. *Cancers*, **2022**, 14, 2664	6.6	0
16	NGS-FC: A Next-Generation Sequencing Data Format Converter. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2018**, 15, 1683-1691	3	
15	RNA Bioinformatics for Precision Medicine. *Advances in Experimental Medicine and Biology*, **2016**, 939, 21-38	3.6	
14	Computational advances in cancer informatics (a). *Cancer Informatics*, **2014**, 13, 45-8	2.4	
13	Homology modeling and molecular dynamics studies of Wilms' tumor gene 1 frameshift mutations in exon 7. *Biomedical Reports*, **2013**, 1, 702-706	1.8	
12	MIKB: A manually curated and comprehensive knowledge base for myocardial infarction.. *Computational and Structural Biotechnology Journal*, **2021**, 19, 6098-6107	6.8	
11	Biomarker Discovery with Text Mining and Literature Based Discovery. *Translational Bioinformatics*, **2013**, 57-78		
10	Ontologies and Knowledge Graphs for Exercise Medicine **2022**, 1-16		
9	Human Immune System and Exercise Medicine: Current Process and Future Directions **2022**, 79-97		
8	Microbiota, Sports and Exercise Medicine **2022**, 55-78		
7	Databases, Knowledgebases, and Software Tools for Virus Informatics.. *Advances in Experimental Medicine and Biology*, **2022**, 1368, 1-19	3.6	
6	Detection and Prevention of Virus Infection.. *Advances in Experimental Medicine and Biology*, **2022**, 1368, 21-52	3.6	

List of Publications

5	In Silico Drug Discovery for Treatment of Virus Diseases.. *Advances in Experimental Medicine and Biology*, **2022**, 1368, 73-93	3.6
4	Predicting the Disease Severity of Virus Infection.. *Advances in Experimental Medicine and Biology*, **2022**, 1368, 111-139	3.6
3	Modeling the Virus Infection at the Population Level.. *Advances in Experimental Medicine and Biology*, **2022**, 1368, 141-166	3.6
2	Health-Based Geographic Information Systems for Mapping and Risk Modeling of Infectious Diseases and COVID-19 to Support Spatial Decision-Making.. *Advances in Experimental Medicine and Biology*, **2022**, 1368, 167-188	3.6
1	5G, Big Data, and AI for Smart City and Prevention of Virus Infection.. *Advances in Experimental Medicine and Biology*, **2022**, 1368, 189-214	3.6