

Mahmoud ElHefnawi

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

1,297
citations

331538

21
h-index

414303

32
g-index

69
all docs

69
docs citations

69
times ranked

2154
citing authors

#	ARTICLE	IF	CITATIONS
1	A year of genomic surveillance reveals how the SARS-CoV-2 pandemic unfolded in Africa. <i>Science</i> , 2021, 374, 423-431.	6.0	144
2	Comparison of Machine Learning Approaches for Prediction of Advanced Liver Fibrosis in Chronic Hepatitis C Patients. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2018, 15, 861-868.	1.9	85
3	DeNovo: virus-host sequence-based protein-protein interaction prediction. <i>Bioinformatics</i> , 2016, 32, 1144-1150.	1.8	79
4	Telaprevir is a potential drug for repurposing against SARS-CoV-2: computational and in vitro studies. <i>Heliyon</i> , 2021, 7, e07962.	1.4	62
5	Part I: Synthesis, cancer chemopreventive activity and molecular docking study of novel quinoxaline derivatives. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 327-340.	2.6	61
6	Modified gold nanoparticles for intracellular delivery of anti-liver cancer siRNA. <i>International Journal of Pharmaceutics</i> , 2016, 504, 125-133.	2.6	50
7	A review study: Computational techniques for expecting the impact of non-synonymous single nucleotide variants in human diseases. <i>Gene</i> , 2019, 680, 20-33.	1.0	47
8	Machine Learning Prediction Models for Diagnosing Hepatocellular Carcinoma with HCV-related Chronic Liver Disease. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 196, 105551.	2.6	41
9	Performance of machine learning approaches on prediction of esophageal varices for Egyptian chronic hepatitis C patients. <i>Informatics in Medicine Unlocked</i> , 2019, 17, 100267.	1.9	40
10	Hsa-miR-195 targets PCMT1 in hepatocellular carcinoma that increases tumor life span. <i>Tumor Biology</i> , 2014, 35, 11301-11309.	0.8	39
11	Identification of novel conserved functional motifs across most Influenza A viral strains. <i>Virology Journal</i> , 2011, 8, 44.	1.4	36
12	Evaluation of computational techniques for predicting non-synonymous single nucleotide variants pathogenicity. <i>Genomics</i> , 2019, 111, 869-882.	1.3	36
13	MysiRNA-Designer: A Workflow for Efficient siRNA Design. <i>PLoS ONE</i> , 2011, 6, e25642.	1.1	35
14	An Integrative Meta-analysis of MicroRNAs in Hepatocellular Carcinoma. <i>Genomics, Proteomics and Bioinformatics</i> , 2013, 11, 354-367.	3.0	33
15	Multiple virtual screening approaches for finding new Hepatitis c virus RNA-dependent RNA polymerase inhibitors: Structure-based screens and molecular dynamics for the pursue of new poly pharmacological inhibitors. <i>BMC Bioinformatics</i> , 2012, 13, S5.	1.2	30
16	In silico identification of potential key regulatory factors in smoking-induced lung cancer. <i>BMC Medical Genomics</i> , 2017, 10, 40.	0.7	27
17	Co-regulatory Network of Oncosuppressor miRNAs and Transcription Factors for Pathology of Human Hepatic Cancer Stem Cells (HCSC). <i>Scientific Reports</i> , 2019, 9, 5564.	1.6	27
18	In Silico Design and Experimental Validation of siRNAs Targeting Conserved Regions of Multiple Hepatitis C Virus Genotypes. <i>PLoS ONE</i> , 2016, 11, e0159211.	1.1	27

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19	Accurate Prediction of Advanced Liver Fibrosis Using the Decision Tree Learning Algorithm in Chronic Hepatitis C Egyptian Patients. <i>Gastroenterology Research and Practice</i> , 2016, 2016, 1-7.	0.7	26
20	MysiRNA: Improving siRNA efficacy prediction using a machine-learning model combining multi-tools and whole stacking energy (I^{st}). <i>Journal of Biomedical Informatics</i> , 2012, 45, 528-534.	2.5	23
21	In Silico and In Vivo Evaluation of SARS-CoV-2 Predicted Epitopes-Based Candidate Vaccine. <i>Molecules</i> , 2021, 26, 6182.	1.7	23
22	Prediction of prognostic biomarkers for Interferon-based therapy to Hepatitis C Virus patients: a metaanalysis of the NS5A protein in subtypes 1a, 1b, and 3a. <i>Virology Journal</i> , 2010, 7, 130.	1.4	22
23	Synthesis, pharmacological activity evaluation and molecular modeling of new polynuclear heterocyclic compounds containing benzimidazole derivatives. <i>Archives of Pharmacal Research</i> , 2012, 35, 2063-2075.	2.7	19
24	The design of optimal therapeutic small interfering RNA molecules targeting diverse strains of influenza A virus. <i>Bioinformatics</i> , 2011, 27, 3364-3370.	1.8	18
25	New Benzimidazoles and Their Antitumor Effects with Aurora A Kinase and KSP Inhibitory Activities. <i>Archiv Der Pharmazie</i> , 2015, 348, 475-486.	2.1	18
26	Computational Identification of Tissue-Specific Splicing Regulatory Elements in Human Genes from RNA-Seq Data. <i>PLoS ONE</i> , 2016, 11, e0166978.	1.1	17
27	Expression profiling and analysis of some miRNAs in subcutaneous white adipose tissue during development of obesity. <i>Genes and Nutrition</i> , 2020, 15, 8.	1.2	15
28	Systematic auditing is essential to debiasing machine learning in biology. <i>Communications Biology</i> , 2021, 4, 183.	2.0	14
29	Effect of Tumor Suppressor MiR-34a Loaded on ZSM-5 Nanozeolite in Hepatocellular Carcinoma: In Vitro and In Vivo Approach. <i>Current Gene Therapy</i> , 2019, 19, 342-354.	0.9	14
30	Impact of type 2 diabetes mellitus on the immunoregulatory characteristics of adipose tissue-derived mesenchymal stem cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2021, 140, 106072.	1.2	13
31	Bioinformatics functional analysis of let-7a, miR-34a, and miR-199a/b reveals novel insights into immune system pathways and cancer hallmarks for hepatocellular carcinoma. <i>Tumor Biology</i> , 2018, 40, 101042831877367.	0.8	12
32	Accurate classification and hemagglutinin amino acid signatures for influenza A virus host-origin association and subtyping. <i>Virology</i> , 2014, 449, 328-338.	1.1	10
33	Altered expression of WFS1 and NOTCH2 genes associated with diabetic nephropathy in T2DM patients. <i>Diabetes Research and Clinical Practice</i> , 2018, 140, 304-313.	1.1	10
34	Targeted delivery of miR-218 via decorated hyperbranched polyamidoamine for liver cancer regression. <i>International Journal of Pharmaceutics</i> , 2021, 610, 121256.	2.6	10
35	Rational Drug Design for Identifying Novel Multi-target Inhibitors for Hepatocellular Carcinoma. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2012, 12, 1088-1097.	0.9	9
36	Whole genome sequencing and bioinformatics analysis of two Egyptian genomes. <i>Gene</i> , 2018, 668, 129-134.	1.0	9

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37	Accurate Prediction of Response to Interferon-based Therapy in Egyptian Patients with Chronic Hepatitis C Using Machine-learning Approaches. , 2012, , .		8
38	Genetic variability of the core protein in hepatitis C virus genotype 4 in Saudi Arabian patients and its implication on pegylated interferon and ribavirin therapy. <i>Journal of Translational Medicine</i> , 2014, 12, 91.	1.8	8
39	Down-regulation of circulating microRNA let-7a in Egyptian smokers. <i>Journal of Genetic Engineering and Biotechnology</i> , 2018, 16, 53-56.	1.5	8
40	The Promise of miRNA Replacement Therapy for Hepatocellular Carcinoma. <i>Current Gene Therapy</i> , 2019, 19, 290-304.	0.9	8
41	Immunomodulatory and Antioxidative potentials of adipose-derived Mesenchymal stem cells isolated from breast versus abdominal tissue: a comparative study. <i>Cell Regeneration</i> , 2020, 9, 18.	1.1	7
42	MicroRNA expression analysis in endometriotic serum treated mesenchymal stem cells. <i>EXCLI Journal</i> , 2017, 16, 852-867.	0.5	6
43	MicroRNA-150 down Regulation in Acute Myeloid Leukaemia Patients and Its Prognostic Implication. <i>Open Access Macedonian Journal of Medical Sciences</i> , 2018, 6, 1993-2000.	0.1	6
44	Integrative assessment of CIP2A overexpression and mutational effects in human malignancies identifies possible deleterious variants. <i>Computers in Biology and Medicine</i> , 2021, 139, 104986.	3.9	6
45	Identifying potential novel insights for COVID-19 pathogenesis and therapeutics using an integrated bioinformatics analysis of host transcriptome. <i>International Journal of Biological Macromolecules</i> , 2022, 194, 770-780.	3.6	6
46	Hepatitis C virus genotype 1: How genetic variability of the core protein affects the response to pegylated interferon and ribavirin therapy. <i>Journal of Medical Virology</i> , 2014, 86, 224-234.	2.5	5
47	MicroTarget: MicroRNA target gene prediction approach with application to breast cancer. <i>Journal of Bioinformatics and Computational Biology</i> , 2017, 15, 1750013.	0.3	5
48	Early diagnosis of esophageal varices using Boosted-Naïve Bayes Tree: A multicenter cross-sectional study on chronic hepatitis C patients. <i>Informatics in Medicine Unlocked</i> , 2020, 20, 100421.	1.9	5
49	Complete genome sequence and bioinformatics analysis of nine Egyptian females with clinical information from different geographic regions in Egypt. <i>Gene</i> , 2021, 769, 145237.	1.0	5
50	Structure-based predictive model for some benzimidazole inhibitors of hepatitis C virus NS5B polymerase. <i>Medicinal Chemistry Research</i> , 2013, 22, 1866-1883.	1.1	4
51	Ensemble-based classification approach for micro-RNA mining applied on diverse metagenomic sequences. <i>BMC Research Notes</i> , 2014, 7, 286.	0.6	4
52	An Integrated Methodology for Mining Promiscuous Proteins: A Case Study of an Integrative Bioinformatics Approach for Hepatitis C Virus Non-structural 5a Protein. <i>Advances in Experimental Medicine and Biology</i> , 2010, 680, 299-305.	0.8	3
53	In-silico Approaches for RNAi Post-Transcriptional Gene Regulation: Optimizing siRNA Design and Selection. , 0, , .		2
54	DETECTING AND ANALYZING COPY NUMBER ALTERNATIONS IN ARRAY-BASED CGH DATA. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2016, 28, 1650044.	0.3	2

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55	The oral microbiome of treated and untreated chronic HCV infection: A preliminary study. <i>Oral Diseases</i> , 2023, 29, 843-852.	1.5	2
56	Using Information Gain to Compare the Efficiency of Machine Learning Techniques When Classifying Influenza Based on Viral Hosts. , 2015, , 707-722.		2
57	283 PREDICTION OF miRNA TARGET GENES INVOLVED IN LIVER CANCER PATHWAYS AND ITS VALIDATION. <i>Journal of Hepatology</i> , 2013, 58, S120.	1.8	1
58	Human microRNAs targeting hepatitis C virus. , 2014, , .		1
59	Predicting Non-Synonymous Single Nucleotide Variants Pathogenic Effects in Human Diseases. , 2019, , 400-409.		1
60	Derivation of "Egyptian varices prediction (EVP) index" A novel noninvasive index for diagnosing esophageal varices in HCV Patients. <i>Journal of Advanced Research</i> , 2022, 35, 87-97.	4.4	1
61	Immunomodulatory and Antioxidative potentials of adipose-derived Mesenchymal stem cells isolated from breast versus abdominal tissue: a comparative study. <i>Cell Regeneration</i> , 2020, 9, 18.	1.1	1
62	Drug repurposing through virtual screening and in vitro validation identifies tigecycline as a novel putative HCV polymerase inhibitor. <i>Virology</i> , 2022, 570, 9-17.	1.1	1
63	Clinical Implications of S100A12 and Resolvin D1 Serum Levels, and Related Genes in Children with Familial Mediterranean Fever. <i>Journal of Child Science</i> , 2021, 11, e163-e169.	0.1	0