Hatem Zayed

List of Publications by Citations

121 papers	1,972 citations	25 h-index	37 g-index
127 ext. papers	2,466 ext. citations	5.1 avg, IF	5.62 L-index

#	Paper	IF	Citations
121	Development of hyperactive sleeping beauty transposon vectors by mutational analysis. *Molecular Therapy*, **2004**, 9, 292-304	11.7	192
120	The DNA-bending protein HMGB1 is a cellular cofactor of Sleeping Beauty transposition. *Nucleic Acids Research*, **2003**, 31, 2313-22	20.1	109
119	Enhanced Identification of Transcriptional Enhancers Provides Mechanistic Insights into Diseases. *Trends in Genetics*, **2016**, 32, 76-88	8.5	59
118	Analysis of Differentially Expressed Genes and Molecular Pathways in Familial Hypercholesterolemia Involved in Atherosclerosis: A Systematic and Bioinformatics Approach. *Frontiers in Genetics*, **2020**, 11, 734	4.5	57
117	Integrative Bioinformatics Approaches to Map Potential Novel Genes and Pathways Involved in Ovarian Cancer. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 391	5.8	50
116	The Sleeping Beauty transposable element: evolution, regulation and genetic applications. *Current Issues in Molecular Biology*, **2004**, 6, 43-55	2.9	49
115	Dysregulation of Signaling Pathways Due to Differentially Expressed Genes From the B-Cell Transcriptomes of Systemic Lupus Erythematosus Patients - A Bioinformatics Approach. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 276	5.8	42
114	A Potential Link Between Oxidative Stress and Endothelial-to-Mesenchymal Transition in Systemic Sclerosis. *Frontiers in Immunology*, **2018**, 9, 1985	8.4	42
113	Genetic Epidemiology of Glucose-6-Phosphate Dehydrogenase Deficiency in the Arab World. *Scientific Reports*, **2016**, 6, 37284	4.9	41
112	Genotype-phenotype correlation in 18 Egyptian patients with glutaric acidemia type I. *Metabolic Brain Disease*, **2017**, 32, 1417-1426	3.9	35
111	Computational approach to unravel the impact of missense mutations of proteins (D2HGDH and IDH2) causing D-2-hydroxyglutaric aciduria 2. *Metabolic Brain Disease*, **2018**, 33, 1699-1710	3.9	34
110	Molecular dynamics-based analyses of the structural instability and secondary structure of the fibrinogen gamma chain protein with the D356V mutation. *Journal of Biomolecular Structure and Dynamics*, **2017**, 35, 2714-2724	3.6	34
109	Structural Analysis of G1691S Variant in the Human Filamin B Gene Responsible for Larsen Syndrome: A Comparative Computational Approach. *Journal of Cellular Biochemistry*, **2017**, 118, 1900-1910	4.7	33
108	A profound computational study to prioritize the disease-causing mutations in PRPS1 gene. *Metabolic Brain Disease*, **2018**, 33, 589-600	3.9	33
107	Novel CD44-downstream signaling pathways mediating breast tumor invasion. *International Journal of Biological Sciences*, **2018**, 14, 1782-1790	11.2	33
106	Role of non-coding RNA networks in leukemia progression, metastasis and drug resistance. *Molecular Cancer*, **2020**, 19, 57	42.1	32
105	Determining the role of missense mutations in the POU domain of HNF1A that reduce the DNA-binding affinity: A computational approach. *PLoS ONE*, **2017**, 12, e0174953	3.7	31

104	The Arab genome: Health and wealth. *Gene*, **2016**, 592, 239-43	3.8	30
103	The Role of Extracellular Vesicles as Modulators of the Tumor Microenvironment, Metastasis and Drug Resistance in Colorectal Cancer. *Cancers*, **2019**, 11,	6.6	29
102	Comparative computational assessment of the pathogenicity of mutations in the Aspartoacylase enzyme. *Metabolic Brain Disease*, **2017**, 32, 2105-2118	3.9	29
101	A maternally inherited chromosome 18q22.1 deletion in a male with late-presenting diaphragmatic hernia and microphthalmia-evaluation of DSEL as a candidate gene for the diaphragmatic defect. *American Journal of Medical Genetics, Part A*, **2010**, 152A, 916-23	2.5	29
100	Two patients with Canavan disease and structural modeling of a novel mutation. *Metabolic Brain Disease*, **2017**, 32, 171-177	3.9	27
99	Computational modelling approaches as a potential platform to understand the molecular genetics association between Parkinson's and Gaucher diseases. *Metabolic Brain Disease*, **2018**, 33, 1835-1847	3.9	26
98	Involvement of Essential Signaling Cascades and Analysis of Gene Networks in Diabesity. *Genes*, **2020**, 11,	4.2	26
97	Genotype-phenotype correlation in patients with isovaleric acidaemia: comparative structural modelling and computational analysis of novel variants. *Human Molecular Genetics*, **2017**, 26, 3105-3115	5.6	25
96	Congenital diaphragmatic hernia and microtia in a newborn with mycophenolate mofetil (MMF) exposure: phenocopy for Fryns syndrome or broad spectrum of teratogenic effects?. *American Journal of Medical Genetics, Part A*, **2009**, 149A, 1237-40	2.5	25
95	Structural analysis of missense mutations in galactokinase 1 (GALK1) leading to galactosemia type-2. *Journal of Cellular Biochemistry*, **2018**, 119, 7585-7598	4.7	24
94	Genetic Epidemiology of Type 1 Diabetes in the 22 Arab Countries. *Current Diabetes Reports*, **2016**, 16, 37	5.6	23
93	A systemic approach to explore the mechanisms of drug resistance and altered signaling cascades in extensively drug-resistant tuberculosis. *Advances in Protein Chemistry and Structural Biology*, **2021**, 127, 343-364	5.3	23
92	Substitution impact of highly conserved arginine residue at position 75 in GJB1 gene in association with X-linked Charcot-Marie-tooth disease: A computational study. *Journal of Theoretical Biology*, **2018**, 437, 305-317	2.3	20
91	Computational insights of K1444N substitution in GAP-related domain of NF1 gene associated with neurofibromatosis type 1 disease: a molecular modeling and dynamics approach. *Metabolic Brain Disease*, **2018**, 33, 1443-1457	3.9	20
90	Sanguinarine Induces Apoptosis Pathway in Multiple Myeloma Cell Lines via Inhibition of the JaK2/STAT3 Signaling. *Frontiers in Oncology*, **2019**, 9, 285	5.3	19
89	Correction of DNA protein kinase deficiency by spliceosome-mediated RNA trans-splicing and sleeping beauty transposon delivery. *Molecular Therapy*, **2007**, 15, 1273-9	11.7	19
88	RPL13A and EEF1A1 Are Suitable Reference Genes for qPCR during Adipocyte Differentiation of Vascular Stromal Cells from Patients with Different BMI and HOMA-IR. *PLoS ONE*, **2016**, 11, e0157002	3.7	19
87	Inositol 1,4,5-Trisphosphate Receptors in Hypertension. *Frontiers in Physiology*, **2018**, 9, 1018	4.6	18

86	An extensive computational approach to analyze and characterize the functional mutations in the galactose-1-phosphate uridyl transferase (GALT) protein responsible for classical galactosemia. *Computers in Biology and Medicine*, **2020**, 117, 103583	7	17
85	Spectrum of mutations of cystic fibrosis in the 22 Arab countries: A systematic review. *Respirology*, **2019**, 24, 127-136	3.6	17
84	Durable immunity to oncogenic human papillomaviruses elicited by adjuvanted recombinant Adeno-associated virus-like particle immunogen displaying L2 17-36 epitopes. *Vaccine*, **2015**, 33, 5553-5563	4.1	16
83	The Qatar genome project: translation of whole-genome sequencing into clinical practice. *International Journal of Clinical Practice*, **2016**, 70, 832-834	2.9	16
82	Protective Effect of Cyclically Pressurized Solid?Liquid Extraction Polyphenols from Grape Pomace on Oxidative Endothelial Cell Death. *Molecules*, **2018**, 23,	4.8	16
81	Propionic acidemia in the Arab World. *Gene*, **2015**, 564, 119-24	3.8	15
80	Comprehensive in silico screening and molecular dynamics studies of missense mutations in Sjogren-Larsson syndrome associated with the ALDH3A2 gene. *Advances in Protein Chemistry and Structural Biology*, **2020**, 120, 349-377	5.3	15
79	In vitro functional correction of the mutation responsible for murine severe combined immune deficiency by small fragment homologous replacement. *Human Gene Therapy*, **2006**, 17, 158-66	4.8	15
78	The transcriptomic profiling of SARS-CoV-2 compared to SARS, MERS, EBOV, and H1N1. *PLoS ONE*, **2020**, 15, e0243270	3.7	15
77	Epidemiology of diabetic ketoacidosis in Arab patients with type 1 diabetes: a systematic review. *International Journal of Clinical Practice*, **2016**, 70, 186-95	2.9	15
76	Genetic epidemiology of ovarian cancer in the 22 Arab countries: A systematic review. *Gene*, **2019**, 684, 154-164	3.8	15
75	Clinical Exome Sequencing unravels new disease-causing mutations in the myeloproliferative neoplasms: A pilot study in patients from the state of Qatar. *Gene*, **2019**, 689, 34-42	3.8	14
74	A comparative computational approach toward pharmacological chaperones (NN-DNJ and ambroxol) on N370S and L444P mutations causing Gaucher® disease. *Advances in Protein Chemistry and Structural Biology*, **2019**, 114, 315-339	5.3	14
73	An integrative analysis to distinguish between emphysema (EML) and alpha-1 antitrypsin deficiency-related emphysema (ADL)-A systems biology approach. *Advances in Protein Chemistry and Structural Biology*, **2021**, 127, 315-342	5.3	14
72	Molecular insights of the G2019S substitution in LRRK2 kinase domain associated with Parkinson® disease: A molecular dynamics simulation approach. *Journal of Theoretical Biology*, **2019**, 469, 163-171	2.3	13
71	miR-20b, miR-296, and Let-7f Expression in Human Adipose Tissue is Related to Obesity and Type 2 Diabetes. *Obesity*, **2019**, 27, 245-254	8	13
70	Implication of salt stress induces changes in pigment production, antioxidant enzyme activity, and qRT-PCR expression of genes involved in the biosynthetic pathway of Bixa orellana L. *Functional and Integrative Genomics*, **2019**, 19, 565-574	3.8	12
69	Understanding the structure-function relationship of HPRT1 missense mutations in association with Lesch-Nyhan disease and HPRT1-related gout by in silico mutational analysis. *Computers in Biology and Medicine*, **2019**, 107, 161-171	7	12

68	Bioinformatics classification of mutations in patients with Mucopolysaccharidosis IIIA. *Metabolic Brain Disease*, **2019**, 34, 1577-1594	3.9	12
67	Impact of missense mutations in survival motor neuron protein (SMN1) leading to Spinal Muscular Atrophy (SMA): A computational approach. *Metabolic Brain Disease*, **2018**, 33, 1823-1834	3.9	11
66	Rapid generation of stable cell lines expressing high levels of erythropoietin, factor VIII, and an antihuman CD20 antibody using lentiviral vectors. *Human Gene Therapy Methods*, **2013**, 24, 214-27	4.9	11
65	Mutational landscape of K-Ras substitutions at 12th position-a systematic molecular dynamics approach. *Journal of Biomolecular Structure and Dynamics*, **2020**, 1-15	3.6	11
64	A computational method to characterize the missense mutations in the catalytic domain of GAA protein causing Pompe disease. *Journal of Cellular Biochemistry*, **2019**, 120, 3491-3505	4.7	11
63	Molecular dynamics, residue network analysis, and cross-correlation matrix to characterize the deleterious missense mutations in GALE causing galactosemia III. *Cell Biochemistry and Biophysics*, **2021**, 79, 201-219	3.2	11
62	Breast cancer in the GCC countries: A focus on BRCA1/2 and non-BRCA1/2 genes. *Gene*, **2018**, 668, 73-76	3.8	11
61	Canavan disease: an Arab scenario. *Gene*, **2015**, 560, 9-14	3.8	10
60	Structure-Based Virtual Screening to Identify Novel Potential Compound as an Alternative to Remdesivir to Overcome the RdRp Protein Mutations in SARS-CoV-2. *Frontiers in Molecular Biosciences*, **2021**, 8, 645216	5.6	10
59	The spectrum of beta-thalassemia mutations in the 22 Arab countries: a systematic review. *Expert Review of Hematology*, **2021**, 14, 109-122	2.8	10
58	Identification of potential inhibitors against pathogenic missense mutations of PMM2 using a structure-based virtual screening approach. *Journal of Biomolecular Structure and Dynamics*, **2021**, 39, 171-187	3.6	10
57	Clinical, biochemical, neuroradiological and molecular characterization of Egyptian patients with glutaric acidemia type 1. *Metabolic Brain Disease*, **2019**, 34, 1231-1241	3.9	9
56	Genetic polymorphisms associated with type 2 diabetes in the Arab world: A systematic review and meta-analysis. *Diabetes Research and Clinical Practice*, **2019**, 151, 198-208	7.4	9
55	CD146, a novel target of CD44-signaling, suppresses breast tumor cell invasion. *Cell Communication and Signaling*, **2017**, 15, 45	7.5	9
54	A computational approach for investigating the mutational landscape of RAC-alpha serine/threonine-protein kinase (AKT1) and screening inhibitors against the oncogenic E17K mutation causing breast cancer. *Computers in Biology and Medicine*, **2019**, 115, 103513	7	9
53	Structural Determination of the Broadly Reactive Anti-IGHV1-69 Anti-idiotypic Antibody G6 and Its Idiotope. *Cell Reports*, **2017**, 21, 3243-3255	10.6	9
52	Computational and modeling approaches to understand the impact of the Fabry disease causing mutation (D92Y) on the interaction with pharmacological chaperone 1-deoxygalactonojirimycin (DGJ). *Advances in Protein Chemistry and Structural Biology*, **2019**, 114, 341-407	5.3	9
51	Neuropathy of type 1 diabetes in the Arab world: A systematic review and meta-analysis. *Diabetes Research and Clinical Practice*, **2017**, 127, 172-180	7.4	8

50	Enzyme therapy: a forerunner in catalyzing a healthy society?. *Expert Opinion on Biological Therapy*, **2020**, 20, 1151-1174	5.4	8
49	Novel mutation in an Egyptian patient with infantile Canavan disease. *Metabolic Brain Disease*, **2016**, 31, 573-7	3.9	8
48	A review of novel coronavirus disease (COVID-19): based on genomic structure, phylogeny, current shreds of evidence, candidate vaccines, and drug repurposing. *3 Biotech*, **2021**, 11, 198	2.8	8
47	Deciphering the Role of Filamin B Calponin-Homology Domain in Causing the Larsen Syndrome, Boomerang Dysplasia, and Atelosteogenesis Type I Spectrum Disorders via a Computational Approach. *Molecules*, **2020**, 25,	4.8	7
46	Sanguinarine Induces Apoptosis in Papillary Thyroid Cancer Cells via Generation of Reactive Oxygen Species. *Molecules*, **2020**, 25,	4.8	7
45	Aberrant DNA methylation of PTPRG as one possible mechanism of its under-expression in CML patients in the State of Qatar. *Molecular Genetics & Genomic Medicine*, **2020**, 8, e1319	2.3	7
44	Elucidating the role of interacting residues of the MSH2-MSH6 complex in DNA repair mechanism: A computational approach. *Advances in Protein Chemistry and Structural Biology*, **2019**, 115, 325-350	5.3	7
43	Spectrum of mutations of familial hypercholesterolemia in the 22 Arab countries. *Atherosclerosis*, **2018**, 279, 62-72	3.1	7
42	Krabbe Disease in the Arab World. *Journal of Pediatric Genetics*, **2015**, 4, 1-8	0.7	6
41	Accredited genetic testing in the Arab Gulf region: reinventing the wheel. *Journal of Human Genetics*, **2016**, 61, 673-4	4.3	6
40	Severe neurological manifestations in an Egyptian patient with a novel frameshift mutation in the Glutaryl-CoA dehydrogenase gene. *Metabolic Brain Disease*, **2017**, 32, 35-40	3.9	6
39	Computational model to analyze and characterize the functional mutations of NOD2 protein causing inflammatory disorder - Blau syndrome. *Advances in Protein Chemistry and Structural Biology*, **2020**, 120, 379-408	5.3	6
38	The identification of highly upregulated genes in claudin-low breast cancer through an integrative bioinformatics approach. *Computers in Biology and Medicine*, **2020**, 127, 103806	7	5
37	An Arab registry for type 1 diabetes: global benefits for type 1 diabetes patients. *Current Medical Research and Opinion*, **2016**, 32, 1681-1684	2.5	5
36	Association of Genetic Variants with Colorectal Cancer in the Extended MENA Region: A Systematic Review. *Current Molecular Medicine*, **2020**, 20, 286-298	2.5	5
35	Genetic polymorphisms associated with obesity in the Arab world: a systematic review. *International Journal of Obesity*, **2021**, 45, 1899-1913	5.5	5
34	In silico and in vivo models for Qatari-specific classical homocystinuria as basis for development of novel therapies. *Human Mutation*, **2019**, 40, 230-240	4.7	5
33	A computational model to predict the structural and functional consequences of missense mutations in O-methylguanine DNA methyltransferase. *Advances in Protein Chemistry and Structural Biology*, **2019**, 115, 351-369	5.3	5

32	Molecular dynamics simulations to decipher the structural and functional consequences of pathogenic missense mutations in the galactosylceramidase (GALC) protein causing Krabbe disease. *Journal of Biomolecular Structure and Dynamics*, **2021**, 39, 1795-1810	3.6	5
31	Structural modeling of p.V31F variant in the aspartoacylase gene. *Metabolic Brain Disease*, **2016**, 31, 723-729	3.9	4
30	Myocardial Ischemic Subjects' Thymus Fat: A Novel Source of Multipotent Stromal Cells. *PLoS ONE*, **2015**, 10, e0144401	3.7	4
29	Immunogenetics of Celiac Disease: A Focus on Arab Countries. *Current Molecular Medicine*, **2020**, 20, 275-285	2.5	4
28	Computational investigation to identify potent inhibitors of the GTPase-Kirsten RAt sarcoma virus (K-Ras) mutants G12C and G12D. *Computers in Biology and Medicine*, **2021**, 139, 104946	7	4
27	The transcriptomic profiling of COVID-19 compared to SARS, MERS, Ebola, and H1N1		4
26	Genetic Epidemiology of Hearing Loss in the 22 Arab Countries: A Systematic Review. *Otology and Neurotology*, **2020**, 41, e152-e162	2.6	4
25	Fasting Ramadan During COVID-19 Pandemic: Immunomodulatory Effect. *Frontiers in Nutrition*, **2020**, 7, 557025	6.2	4
24	Tumor reversion: a dream or a reality. *Biomarker Research*, **2021**, 9, 31	8	4
23	Computational structural assessment of BReast CAncer type 1 susceptibility protein (BRCA1) and BRCA1-Associated Ring Domain protein 1 (BARD1) mutations on the protein-protein interface.. *Advances in Protein Chemistry and Structural Biology*, **2022**, 130, 375-397	5.3	4
22	Association between Soft Drink Consumption and Aggressive Behaviour among a Quarter Million Adolescents from 64 Countries Based on the Global School-Based Student Health Survey (GSHS). *Nutrients*, **2020**, 12,	6.7	3
21	Genetic epidemiology of beta-thalassemia in the Maldives: 23 years of a beta-thalassemia screening program. *Gene*, **2020**, 741, 144544	3.8	3
20	Understanding Gene Expression and Transcriptome Profiling of COVID-19: An Initiative Towards the Mapping of Protective Immunity Genes Against SARS-CoV-2 Infection.. *Frontiers in Immunology*, **2021**, 12, 724936	8.4	3
19	Comparison of potential inhibitors and targeting fat mass and obesity-associated protein causing diabesity through docking and molecular dynamics strategies. *Journal of Cellular Biochemistry*, **2021** , 122, 1625-1638	4.7	3
18	miR-21 mimic blocks obesity in mice: A novel therapeutic option. *Molecular Therapy - Nucleic Acids*, **2021**, 26, 401-416	10.7	3
17	Investigating the structural impacts of a novel missense variant identified with whole exome sequencing in an Egyptian patient with propionic acidemia. *Molecular Genetics and Metabolism Reports*, **2020**, 25, 100645	1.8	2
16	Novel Comprehensive Bioinformatics Approaches to Determine the Molecular Genetic Susceptibility Profile of Moderate and Severe Asthma. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
15	Bladder neoplasms and NF-B: an unfathomed association. *Expert Review of Molecular Diagnostics*, **2020**, 20, 497-508	3.8	2

14	Differences in the neovascular potential of thymus versus subcutaneous adipose-derived stem cells from patients with myocardial ischaemia. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e1772-e1784	4.4	2
13	Anaphylaxis triggers in a large tertiary care hospital in Qatar: a retrospective study. *World Allergy Organization Journal*, **2018**, 11, 20	5.2	2
12	Residue interaction networks of K-Ras protein with water molecules identifies the potential role of switch II and P-loop. *Computers in Biology and Medicine*, **2021**, 135, 104597	7	2
11	Potential routes of spread of Zika virus to the Middle East, North Africa and Asia: action must be taken. *Future Virology*, **2017**, 12, 159-162	2.4	1
10	Vaccine Development Against COVID-19 Prior to Pandemic Outbreaks, Using Evolution and Reverse Genetics. *Frontiers in Immunology*, **2020**, 11, 2051	8.4	1
9	Assessment of lung cancer risk factors and mortality in Qatar: A case series study. *Cancer Reports*, **2021**, 4, e1302	1.5	1
8	Genetic Epidemiology of Primary Congenital Glaucoma in the 22 Arab Countries: A Systematic Review. *Ophthalmic Epidemiology*, **2021**, 1-12	1.9	1
7	Prevalence of nephropathy in type 1 diabetes in the Arab world: A systematic review and meta-analysis. *Diabetes/Metabolism Research and Reviews*, **2018**, 34, e3026	7.5	1
6	Genetic Variants Associated With Alzheimer Disease in the 22 Arab Countries: A Systematic Review. *Alzheimer Disease and Associated Disorders*, **2021**, 35, 178-186	2.5	0
5	Whole-Genome Sequencing of 100 Genomes Identifies a Distinctive Genetic Susceptibility Profile of Qatari Patients with Hypertension. *Journal of Personalized Medicine*, **2022**, 12, 722	3.6	0
4	Integrative ontology and pathway-based approach identifies distinct molecular signatures in transcriptomes of esophageal squamous cell carcinoma. *Advances in Protein Chemistry and Structural Biology*, **2022**,	5.3	0
3	An integrative bioinformatics pipeline to demonstrate the alteration of the interaction between the ALDH2*2 allele with NAD and Disulfiram. *Journal of Cellular Biochemistry*, **2019**, 120, 17030-17041	4.7	
2	Retinopathy of Type 1 Diabetes in Arab Countries: Systematic Review and Meta-Analysis. *Ophthalmic Research*, **2019**, 61, 125-136	2.9	
1	A computational overview on phylogenetic characterization, pathogenic mutations, and drug targets for Ebola virus disease. *Current Opinion in Pharmacology*, **2021**, 61, 28-35	5.1	