

# Thirumal Kumar D

## List of Publications by Citations

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85  
papers

1,154  
citations

21  
h-index

29  
g-index

91  
ext. papers

1,442  
ext. citations

4.7  
avg, IF

5.21  
L-index

#	Paper	IF	Citations
85	The Rise and Impact of COVID-19 in India. <i>Frontiers in Medicine</i> , <b>2020</b> , 7, 250	4.9	59
84	Analysis of Differentially Expressed Genes and Molecular Pathways in Familial Hypercholesterolemia Involved in Atherosclerosis: A Systematic and Bioinformatics Approach. <i>Frontiers in Genetics</i> , <b>2020</b> , 11, 734	4.5	57
83	Integrative Bioinformatics Approaches to Map Potential Novel Genes and Pathways Involved in Ovarian Cancer. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 391	5.8	50
82	Functionality study of santalin as tyrosinase inhibitor: A potential depigmentation agent. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 86, 383-9	7.9	43
81	Dysregulation of Signaling Pathways Due to Differentially Expressed Genes From the B-Cell Transcriptomes of Systemic Lupus Erythematosus Patients - A Bioinformatics Approach. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 276	5.8	42
80	Influence of V54M mutation in giant muscle protein titin: a computational screening and molecular dynamics approach. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2017</b> , 35, 917-928	3.6	41
79	Unraveling the inhibition mechanism of cyanidin-3-sophoroside on polyphenol oxidase and its effect on enzymatic browning of apples. <i>Food Chemistry</i> , <b>2017</b> , 227, 102-110	8.5	36
78	Computational approach to unravel the impact of missense mutations of proteins (D2HGDH and IDH2) causing D-2-hydroxyglutaric aciduria 2. <i>Metabolic Brain Disease</i> , <b>2018</b> , 33, 1699-1710	3.9	34
77	Structural Analysis of G1691S Variant in the Human Filamin B Gene Responsible for Larsen Syndrome: A Comparative Computational Approach. <i>Journal of Cellular Biochemistry</i> , <b>2017</b> , 118, 1900-1910	4.7	33
76	Determining the role of missense mutations in the POU domain of HNF1A that reduce the DNA-binding affinity: A computational approach. <i>PLoS ONE</i> , <b>2017</b> , 12, e0174953	3.7	31
75	Investigating the Inhibitory Effect of Wortmannin in the Hotspot Mutation at Codon 1047 of PIK3CA Kinase Domain: A Molecular Docking and Molecular Dynamics Approach. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2016</b> , 102, 267-97	5.3	30
74	Exploring the interaction between iron oxide nanoparticles (IONPs) and Human serum albumin (HSA): Spectroscopic and docking studies. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 241, 793-800	6	29
73	Role of E542 and E545 missense mutations of PIK3CA in breast cancer: a comparative computational approach. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2017</b> , 35, 2745-2757	3.6	27
72	Computational modelling approaches as a potential platform to understand the molecular genetics association between Parkinson's and Gaucher diseases. <i>Metabolic Brain Disease</i> , <b>2018</b> , 33, 1835-1847	3.9	26
71	Involvement of Essential Signaling Cascades and Analysis of Gene Networks in Diabesity. <i>Genes</i> , <b>2020</b> , 11,	4.2	26
70	Deciphering the impact of somatic mutations in exon 20 and exon 9 of PIK3CA gene in breast tumors among Indian women through molecular dynamics approach. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2016</b> , 34, 29-41	3.6	25
69	Genotype-phenotype correlation in patients with isovaleric acidemia: comparative structural modelling and computational analysis of novel variants. <i>Human Molecular Genetics</i> , <b>2017</b> , 26, 3105-3115	5.6	25

68	Binding and molecular dynamic studies of sesquiterpenes (2R-acetoxymethyl-1,3,3-trimethyl-4t-(3-methyl-2-buten-1-yl)-1t-cyclohexanol) derived from marine Streptomyces sp. VITJS8 as potential anticancer agent. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 2869-82	5.7	24
67	Structural analysis of missense mutations in galactokinase 1 (GALK1) leading to galactosemia type-2. <i>Journal of Cellular Biochemistry</i> , <b>2018</b> , 119, 7585-7598	4.7	24
66	A systemic approach to explore the mechanisms of drug resistance and altered signaling cascades in extensively drug-resistant tuberculosis. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2021</b> , 127, 343-364	5.3	23
65	Network analysis of transcriptomics data for the prediction and prioritization of membrane-associated biomarkers for idiopathic pulmonary fibrosis (IPF) by bioinformatics approach. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2021</b> , 123, 241-273	5.3	22
64	Mechanism of artemisinin resistance for malaria PfATP6 L263 mutations and discovering potential antimalarials: An integrated computational approach. <i>Scientific Reports</i> , <b>2016</b> , 6, 30106	4.9	21
63	Induction of apoptosis by apocarotenoids in B16 melanoma cells through ROS-mediated mitochondrial-dependent pathway. <i>Journal of Functional Foods</i> , <b>2016</b> , 20, 346-357	5.1	21
62	Computational approaches and resources in single amino acid substitutions analysis toward clinical research. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2014</b> , 94, 365-423	5.3	19
61	A Molecular Docking and Dynamics Approach to Screen Potent Inhibitors Against Fosfomycin Resistant Enzyme in Clinical Klebsiella pneumoniae. <i>Journal of Cellular Biochemistry</i> , <b>2017</b> , 118, 4088-4094	4.7	17
60	An extensive computational approach to analyze and characterize the functional mutations in the galactose-1-phosphate uridyl transferase (GALT) protein responsible for classical galactosemia. <i>Computers in Biology and Medicine</i> , <b>2020</b> , 117, 103583	7	17
59	Comprehensive in silico screening and molecular dynamics studies of missense mutations in Sjogren-Larsson syndrome associated with the ALDH3A2 gene. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2020</b> , 120, 349-377	5.3	15
58	DNA Repair Gene (XRCC1) Polymorphism (Arg399Gln) Associated with Schizophrenia in South Indian Population: A Genotypic and Molecular Dynamics Study. <i>PLoS ONE</i> , <b>2016</b> , 11, e0147348	3.7	14
57	A comparative computational approach toward pharmacological chaperones (NN-DNJ and ambroxol) on N370S and L444P mutations causing Gaucher's disease. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2019</b> , 114, 315-339	5.3	14
56	An integrative analysis to distinguish between emphysema (EML) and alpha-1 antitrypsin deficiency-related emphysema (ADL)-A systems biology approach. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2021</b> , 127, 315-342	5.3	14
55	Bioinformatics classification of mutations in patients with Mucopolysaccharidosis IIIA. <i>Metabolic Brain Disease</i> , <b>2019</b> , 34, 1577-1594	3.9	12
54	Enhanced mosquitocidal efficacy of colloidal dispersion of pyrethroid nanometric emulsion with benignity towards non-target species. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 176, 258-269	7	11
53	Glandular hair constituents of Mallotus philippinensis Muell. fruit act as tyrosinase inhibitors: Insights from enzyme kinetics and simulation study. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 107, 1675-1682	7.9	11
52	Impact of missense mutations in survival motor neuron protein (SMN1) leading to Spinal Muscular Atrophy (SMA): A computational approach. <i>Metabolic Brain Disease</i> , <b>2018</b> , 33, 1823-1834	3.9	11
51	Mutational landscape of K-Ras substitutions at 12th position-a systematic molecular dynamics approach. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2020</b> , 1-15	3.6	11

50	A computational method to characterize the missense mutations in the catalytic domain of GAA protein causing Pompe disease. <i>Journal of Cellular Biochemistry</i> , <b>2019</b> , 120, 3491-3505	4.7	11
49	Molecular dynamics, residue network analysis, and cross-correlation matrix to characterize the deleterious missense mutations in GALE causing galactosemia III. <i>Cell Biochemistry and Biophysics</i> , <b>2021</b> , 79, 201-219	3.2	11
48	Application of evolutionary based in silico methods to predict the impact of single amino acid substitutions in vitelliform macular dystrophy. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2014</b> , 94, 177-267	5.3	10
47	A Computational Approach to Identify the Biophysical and Structural Aspects of Methylenetetrahydrofolate Reductase (MTHFR) Mutations (A222V, E429A, and R594Q) Leading to Schizophrenia. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2017</b> , 108, 105-125	5.3	10
46	Structure-Based Virtual Screening to Identify Novel Potential Compound as an Alternative to Remdesivir to Overcome the RdRp Protein Mutations in SARS-CoV-2. <i>Frontiers in Molecular Biosciences</i> , <b>2021</b> , 8, 645216	5.6	10
45	Identification of potential inhibitors against pathogenic missense mutations of PMM2 using a structure-based virtual screening approach. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 39, 171-187	3.6	10
44	Kerala, India's Front Runner in Novel Coronavirus Disease (COVID-19). <i>Frontiers in Medicine</i> , <b>2020</b> , 7, 355	4.9	9
43	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. <i>Computers in Biology and Medicine</i> , <b>2019</b> , 115, 103513	7	9
42	Computational and modeling approaches to understand the impact of the Fabry's disease causing mutation (D92Y) on the interaction with pharmacological chaperone 1-deoxygalactonojirimycin (DGJ). <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2019</b> , 114, 341-407	5.3	9
41	Analysis of interactions of clinical mutants of catalase-peroxidase (KatG) responsible for isoniazid resistance in Mycobacterium tuberculosis with derivatives of isoniazid. <i>Journal of Global Antimicrobial Resistance</i> , <b>2017</b> , 11, 57-67	3.4	8
40	Inhibition of the ATPase Domain of Human Topoisomerase IIa on HepG2 Cells by 1, 2-benzenedicarboxylic Acid, Mono (2-ethylhexyl) Ester: Molecular Docking and Dynamics Simulations. <i>Current Cancer Drug Targets</i> , <b>2019</b> , 19, 495-503	2.8	8
39	A review of novel coronavirus disease (COVID-19): based on genomic structure, phylogeny, current shreds of evidence, candidate vaccines, and drug repurposing. <i>3 Biotech</i> , <b>2021</b> , 11, 198	2.8	8
38	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. <i>Molecules</i> , <b>2020</b> , 25,	4.8	7
37	Assessing reproductive toxicity and antioxidant enzymes on beta asarone induced male Wistar albino rats: In vivo and computational analysis. <i>Life Sciences</i> , <b>2017</b> , 173, 150-160	6.8	7
36	Elucidating the role of interacting residues of the MSH2-MSH6 complex in DNA repair mechanism: A computational approach. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2019</b> , 115, 325-350	5.3	7
35	Investigating the Influence of Hotspot Mutations in Protein-Protein Interaction of IDH1 Homodimer Protein: A Computational Approach. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2018</b> , 111, 243-261	5.3	6
34	Computational model to analyze and characterize the functional mutations of NOD2 protein causing inflammatory disorder - Blau syndrome. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2020</b> , 120, 379-408	5.3	6
33	Mixed azo dyes degradation by an intracellular azoreductase enzyme from alkaliphilic Bacillus subtilis: a molecular docking study. <i>Archives of Microbiology</i> , <b>2021</b> , 203, 3033-3044	3	6

32	In Silico Identification of Multi-target Anti-SARS-CoV-2 Peptides from Quinoa Seed Proteins. <i>International Journal of Peptide Research and Therapeutics</i> , <b>2021</b> , 27, 1-11	2.1	6
31	Investigating mutations at the hotspot position of the ERBB2 and screening for the novel lead compound to treat breast cancer - a computational approach. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2021</b> , 123, 49-71	5.3	6
30	Investigation of nonsynonymous mutations in the spike protein of SARS-CoV-2 and its interaction with the ACE2 receptor by molecular docking and MM/GBSA approach. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 135, 104654	7	6
29	A computational model to predict the structural and functional consequences of missense mutations in O-methylguanine DNA methyltransferase. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2019</b> , 115, 351-369	5.3	5
28	Molecular dynamics simulations to decipher the structural and functional consequences of pathogenic missense mutations in the galactosylceramidase (GALC) protein causing Krabbe's disease. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 39, 1795-1810	3.6	5
27	Probing the Protein-Protein Interaction Network of Proteins Causing Maturity Onset Diabetes of the Young. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2018</b> , 110, 167-202	5.3	5
26	In vitro efficacy and in silico analysis of cefixime-ofloxacin combination for Salmonella Typhi from bloodstream infection. <i>Journal of Applied Microbiology</i> , <b>2017</b> , 123, 615-624	4.7	4
25	Analyzing the Effect of V66M Mutation in BDNF in Causing Mood Disorders: A Computational Approach. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2017</b> , 108, 85-103	5.3	4
24	Comparative analysis of the two extremes of -mutated autosomal dominant disease spectrum: from clinical phenotypes to cellular and molecular findings. <i>American Journal of Translational Research (discontinued)</i> , <b>2018</b> , 10, 1400-1412	3	4
23	First hybrid complete genome of reveals chromosome-mediated novel structural variant from a human clinical sample. <i>Access Microbiology</i> , <b>2020</b> , 2, acmi000103	1	4
22	Integrated approach on azo dyes degradation using laccase enzyme and CuI nanoparticle. <i>SN Applied Sciences</i> , <b>2021</b> , 3, 1	1.8	4
21	Analysis and effective separation of toxic pollutants from water resources using MBBR: Pathway prediction using alkaliphilic P. mendocina. <i>Science of the Total Environment</i> , <b>2021</b> , 797, 149135	10.2	4
20	Computational structural assessment of BRCA1 susceptibility protein (BRCA1) and BRCA1-Associated Ring Domain protein 1 (BARD1) mutations on the protein-protein interface.. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2022</b> , 130, 375-397	5.3	4
19	CoagVDb: a comprehensive database for coagulation factors and their associated SAPs. <i>Biological Research</i> , <b>2015</b> , 48, 35	7.6	3
18	Plant Bioactive Peptides: Current Status and Prospects Towards Use on Human Health. <i>Protein and Peptide Letters</i> , <b>2021</b> , 28, 623-642	1.9	3
17	Comparison of potential inhibitors and targeting fat mass and obesity-associated protein causing diabetes through docking and molecular dynamics strategies. <i>Journal of Cellular Biochemistry</i> , <b>2021</b> , 122, 1625-1638	4.7	3
16	Effect of shape and anthocyanin capping on antibacterial activity of CuI particles. <i>Environmental Research</i> , <b>2021</b> , 200, 111759	7.9	3
15	Investigating the structural impacts of a novel missense variant identified with whole exome sequencing in an Egyptian patient with propionic acidemia. <i>Molecular Genetics and Metabolism Reports</i> , <b>2020</b> , 25, 100645	1.8	2

14	Integrated approach in LDPE degradation - An application using Winogradsky column, computational modeling, and pathway prediction. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 412, 125336	12.8	2
13	Prediction and characterization of influenza virus polymerase inhibitors through blind docking and ligand based virtual screening. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 321, 114784	6	2
12	Understanding the activating mechanism of the immune system against COVID-19 by Traditional Indian Medicine: Network pharmacology approach.. <i>Advances in Protein Chemistry and Structural Biology</i> , <b>2022</b> , 129, 275-379	5.3	1
11	and activity of ceftolozane/tazobactam against pseudomonas aeruginosa collected across Indian hospitals. <i>Indian Journal of Medical Microbiology</i> , <b>2018</b> , 36, 127-130	1.3	1
10	First hybrid complete genome of Aeromonas veroniireveals chromosome-mediated novel structural variant mcr-3.19 from human clinical specimen		1
9	Integrated Approach On Degaradtion Of Azo Dyes Using Laccase Enzyme And Nanoparticle With Its Interaction By In Silco Analysis		1
8	Effective utilisation of influence maximization technique for the identification of significant nodes in breast cancer gene networks. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 133, 104378	7	1
7	3-Hydroxypropane-1,2-Diyl Dipalmitoleate-A Natural Compound with Dual Roles (CB1 Agonist/FAAH1 Blocker) in Inhibiting Ovarian Cancer Cell Line. <i>Pharmaceuticals</i> , <b>2021</b> , 14,	5.2	1
6	Significance of catalase-peroxidase (KatG) mutations in mediating isoniazid resistance in clinical strains of Mycobacterium tuberculosis. <i>Journal of Global Antimicrobial Resistance</i> , <b>2018</b> , 15, 111-120	3.4	1
5	Accumulation of betacyanin in Hylocereus undatus rind: Pigment stability analysis and its role in xanthine oxidase inhibition. <i>Phytomedicine Plus</i> , <b>2022</b> , 2, 100197		0
4	An integrative bioinformatics pipeline to demonstrate the alteration of the interaction between the ALDH2*2 allele with NAD and Disulfiram. <i>Journal of Cellular Biochemistry</i> , <b>2019</b> , 120, 17030-17041	4.7	
3	Siddha Medicine and Computer Modeling: A Treasure for SARS-CoV-2 Treatment. <i>Studies in Systems, Decision and Control</i> , <b>2022</b> , 521-541	0.8	
2	Inhibition of MMP2-PEX by a novel ester of dihydroxy cinnamic and linoleic acid from the seagrass Cymodocea serrulata. <i>Scientific Reports</i> , <b>2021</b> , 11, 11451	4.9	
1	A computational overview on phylogenetic characterization, pathogenic mutations, and drug targets for Ebola virus disease. <i>Current Opinion in Pharmacology</i> , <b>2021</b> , 61, 28-35	5.1	