

# Md Tabish Rehman

## List of Publications by Citations

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104  
papers

2,384  
citations

29  
h-index

43  
g-index

112  
ext. papers

3,304  
ext. citations

4.6  
avg, IF

5.78  
L-index

#	Paper	IF	Citations
104	Insight into the binding mechanism of imipenem to human serum albumin by spectroscopic and computational approaches. <i>Molecular Pharmaceutics</i> , <b>2014</b> , 11, 1785-97	5.6	148
103	Biogenesis of ZnO nanoparticles using leaf extract: anticancer and antimicrobial activities.. <i>RSC Advances</i> , <b>2019</b> , 9, 15357-15369	3.7	103
102	Copper(II) complexes as potential anticancer and Nonsteroidal anti-inflammatory agents: In vitro and in vivo studies. <i>Scientific Reports</i> , <b>2019</b> , 9, 5237	4.9	98
101	Biogenic synthesis of Zinc oxide nanostructures from Nigella sativa seed: Prospective role as food packaging material inhibiting broad-spectrum quorum sensing and biofilm. <i>Scientific Reports</i> , <b>2016</b> , 6, 36761	4.9	90
100	Transcriptional firing helps to drive NETosis. <i>Scientific Reports</i> , <b>2017</b> , 7, 41749	4.9	85
99	JNK Activation Turns on LPS- and Gram-Negative Bacteria-Induced NADPH Oxidase-Dependent Suicidal NETosis. <i>Scientific Reports</i> , <b>2017</b> , 7, 3409	4.9	70
98	Neutrophil Extracellular Trap Formation: Physiology, Pathology, and Pharmacology. <i>Biomolecules</i> , <b>2019</b> , 9,	5.9	63
97	Molecular insight into binding behavior of polyphenol (rutin) with beta lactoglobulin: Spectroscopic, molecular docking and MD simulation studies. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 269, 511-520	6	60
96	Interaction of meropenem with NTand BTisoforms of human serum albumin: a spectroscopic and molecular docking study. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2016</b> , 34, 1849-64	3.6	50
95	Alkaline pH Promotes NADPH Oxidase-Independent Neutrophil Extracellular Trap Formation: A Matter of Mitochondrial Reactive Oxygen Species Generation and Citrullination and Cleavage of Histone. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 1849	8.4	50
94	Evaluation of ellagic acid as an inhibitor of sphingosine kinase 1: A targeted approach towards anticancer therapy. <i>Biomedicine and Pharmacotherapy</i> , <b>2019</b> , 118, 109245	7.5	49
93	Plant-derived antiviral drugs as novel hepatitis B virus inhibitors: Cell culture and molecular docking study. <i>Saudi Pharmaceutical Journal</i> , <b>2019</b> , 27, 389-400	4.4	48
92	Anti-oxidant and anti-inflammatory effects of cinnamaldehyde and eugenol on mononuclear cells of rheumatoid arthritis patients. <i>European Journal of Pharmacology</i> , <b>2019</b> , 852, 14-24	5.3	48
91	Pharmacoinformatics approach for the identification of Polo-like kinase-1 inhibitors from natural sources as anti-cancer agents. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 116, 173-181	7.9	47
90	Histone Acetylation Promotes Neutrophil Extracellular Trap Formation. <i>Biomolecules</i> , <b>2019</b> , 9,	5.9	43
89	Design and development of Isatin-triazole hydrazones as potential inhibitors of microtubule affinity-regulating kinase 4 for the therapeutic management of cell proliferation and metastasis. <i>European Journal of Medicinal Chemistry</i> , <b>2019</b> , 163, 840-852	6.8	41
88	Biosynthesized Silver Nanoparticle (AgNP) From Leaf Extract Exhibits Anti-metastasis and Anti-biofilm Potentials. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 8	5.7	40

87	High-Throughput Virtual Screening, Molecular Dynamics Simulation, and Enzyme Kinetics Identified ZINC84525623 as a Potential Inhibitor of NDM-1. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	38
86	Alpha-Amylase and Alpha-Glucosidase Enzyme Inhibition and Antioxidant Potential of 3-Oxolupenol and Katonic Acid Isolated from. <i>Biomolecules</i> , <b>2019</b> , 10,	5.9	38
85	Progression of Cystic Fibrosis Lung Disease from Childhood to Adulthood: Neutrophils, Neutrophil Extracellular Trap (NET) Formation, and NET Degradation. <i>Genes</i> , <b>2019</b> , 10,	4.2	37
84	Regulating NETosis: Increasing pH Promotes NADPH Oxidase-Dependent NETosis. <i>Frontiers in Medicine</i> , <b>2018</b> , 5, 19	4.9	35
83	Biochemical characterization of CTX-M-15 from Enterobacter cloacae and designing a novel non-β-lactam-β-lactamase inhibitor. <i>PLoS ONE</i> , <b>2013</b> , 8, e56926	3.7	35
82	MARK4 Inhibited by AChE Inhibitors, Donepezil and Rivastigmine Tartrate: Insights into Alzheimer's Disease Therapy. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	34
81	Treatment of nitric oxide supplemented with nitrogen and sulfur regulates photosynthetic performance and stomatal behavior in mustard under salt stress. <i>Physiologia Plantarum</i> , <b>2020</b> , 168, 490-510	4.6	32
80	Functional implications of pH-induced conformational changes in the Sphingosine kinase 1. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2020</b> , 225, 117453	4.4	32
79	Structural Analysis and Conformational Dynamics of Gene Mutations Involved in Coat Plus Syndrome. <i>Frontiers in Molecular Biosciences</i> , <b>2019</b> , 6, 41	5.6	31
78	Secretoglobin 1A1 and 1A1A differentially regulate neutrophil reactive oxygen species production, phagocytosis and extracellular trap formation. <i>PLoS ONE</i> , <b>2014</b> , 9, e96217	3.7	31
77	Onion Peel Ethylacetate Fraction and Its Derived Constituent Quercetin 4-O-Glucopyranoside Attenuates Quorum Sensing Regulated Virulence and Biofilm Formation. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1675	5.7	30
76	Two-in-one: UV radiation simultaneously induces apoptosis and NETosis. <i>Cell Death Discovery</i> , <b>2018</b> , 4, 51	6.9	29
75	Identification and evaluation of glutathione conjugate gamma-l-glutamyl-l-cysteine for improved drug delivery to the brain. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2020</b> , 38, 3610-3620	3.6	29
74	Ethephon mitigates nickel stress by modulating antioxidant system, glyoxalase system and proline metabolism in Indian mustard. <i>Physiology and Molecular Biology of Plants</i> , <b>2020</b> , 26, 1201-1213	2.8	28
73	Exogenously-Sourced Ethylene Modulates Defense Mechanisms and Promotes Tolerance to Zinc Stress in Mustard (L.). <i>Plants</i> , <b>2019</b> , 8,	4.5	28
72	Role of Non-Active-Site Residue Trp-93 in the Function and Stability of New Delhi Metallo-β-lactamase 1. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 356-60	5.9	27
71	Hypertonic Saline Suppresses NADPH Oxidase-Dependent Neutrophil Extracellular Trap Formation and Promotes Apoptosis. <i>Frontiers in Immunology</i> , <b>2018</b> , 9, 359	8.4	27
70	Investigation of deleterious effects of nsSNPs in the POT1 gene: a structural genomics-based approach to understand the mechanism of cancer development. <i>Journal of Cellular Biochemistry</i> , <b>2019</b> , 120, 10281-10294	4.7	25

69	Unraveling Binding Mechanism of Alzheimer's Drug Rivastigmine Tartrate with Human Transferrin: Molecular Docking and Multi-Spectroscopic Approach towards Neurodegenerative Diseases. <i>Biomolecules</i> , <b>2019</b> , 9,	5.9	24
68	Insight of the Interaction between 2,4-thiazolidinedione and Human Serum Albumin: A Spectroscopic, Thermodynamic and Molecular Docking Study. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	24
67	Antibacterial Silver Nanomaterial Synthesis From and Targeting Biofilm Formation. <i>Frontiers in Pharmacology</i> , <b>2019</b> , 10, 801	5.6	22
66	Impaired resolution of inflammation in the Endoglin heterozygous mouse model of chronic colitis. <i>Mediators of Inflammation</i> , <b>2014</b> , 2014, 767185	4.3	21
65	Hesperidin-CAMKIV interaction and its impact on cell proliferation and apoptosis in the human hepatic carcinoma and neuroblastoma cells. <i>Journal of Cellular Biochemistry</i> , <b>2019</b> , 120, 15119-15130	4.7	20
64	Understanding the interaction between human serum albumin and anti-bacterial/ anti-cancer compounds. <i>Current Pharmaceutical Design</i> , <b>2015</b> , 21, 1785-99	3.3	20
63	An insight into the biophysical characterization of different states of cefotaxime hydrolyzing $\beta$ -Lactamase 15 (CTX-M-15). <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2015</b> , 33, 625-38	3.6	19
62	Molecular interaction of tea catechin with bovine $\beta$ -Lactoglobulin: A spectroscopic and in silico studies. <i>Saudi Pharmaceutical Journal</i> , <b>2020</b> , 28, 238-245	4.4	19
61	Rutin attenuates negatively charged surfactant (SDS)-induced lysozyme aggregation/amyloid formation and its cytotoxicity. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 120, 45-58	7.9	19
60	Design, Synthesis, and Biological Evaluation of Benzimidazole-Derived Biocompatible Copper(II) and Zinc(II) Complexes as Anticancer Chemotherapeutics. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	19
59	Identification of Potential Inhibitors of Calcium/Calmodulin-Dependent Protein Kinase IV from Bioactive Phytoconstituents. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2020</b> , 2020, 2094635	6.7	19
58	Identification of Sphingosine Kinase-1 Inhibitors from Bioactive Natural Products Targeting Cancer Therapy. <i>ACS Omega</i> , <b>2020</b> , 5, 14720-14729	3.9	18
57	In silico screening of glycogen synthase kinase-3 targeted ligands against acetylcholinesterase and its probable relevance to Alzheimer's disease. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 39, 5083-5092	3.6	17
56	Evaluation of Transition Metal Complexes of Benzimidazole-Derived Scaffold as Promising Anticancer Chemotherapeutics. <i>Molecules</i> , <b>2018</b> , 23,	4.8	17
55	Characterization of colchicine binding with normal and glycosylated albumin: In vitro and molecular docking analysis. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2018</b> , 36, 3453-3462	3.6	16
54	Complement Activation Induces Neutrophil Adhesion and Neutrophil-Platelet Aggregate Formation on Vascular Endothelial Cells. <i>Kidney International Reports</i> , <b>2017</b> , 2, 66-75	4.1	16
53	Furanoid F-Acid F6 Uniquely Induces NETosis Compared to C16 and C18 Fatty Acids in Human Neutrophils. <i>Biomolecules</i> , <b>2018</b> , 8,	5.9	16
52	Effect of cetyltrimethylammonium bromide (CTAB) on the conformation of a hen egg white lysozyme: A spectroscopic and molecular docking study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 219, 313-318	4.4	15

51	Structural and functional impact of non-synonymous SNPs in the CST complex subunit TEN1: structural genomics approach. <i>Bioscience Reports</i> , <b>2019</b> , 39,	4.1	15
50	Functional role of glutamine 28 and arginine 39 in double stranded RNA cleavage by human pancreatic ribonuclease. <i>PLoS ONE</i> , <b>2011</b> , 6, e17159	3.7	15
49	Identification of high-affinity inhibitors of pyruvate dehydrogenase kinase-3: towards therapeutic management of cancer. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 39, 586-594	3.6	15
48	Seed Extract of and Its Constituent Bakuchiol Impairs AHL-Based Quorum Sensing and Biofilm Formation in Food- and Human-Related Pathogens. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2018</b> , 8, 351	5.9	15
47	Antidiabetic, antioxidant, molecular docking and HPTLC analysis of miquelianin isolated from <i>C. Presl</i> . <i>Saudi Pharmaceutical Journal</i> , <b>2019</b> , 27, 655-663	4.4	13
46	Food additive dye (quinoline yellow) promotes unfolding and aggregation of myoglobin: A spectroscopic and molecular docking analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 214, 216-226	4.4	13
45	Non-enzymatic Glycation of Almond Cystatin Leads to Conformational Changes and Altered Activity. <i>Protein and Peptide Letters</i> , <b>2015</b> , 22, 449-59	1.9	13
44	Anthracyclines Suppress Both NADPH Oxidase- Dependent and -Independent NETosis in Human Neutrophils. <i>Cancers</i> , <b>2019</b> , 11,	6.6	12
43	Investigating architecture and structure-function relationships in cold shock DNA-binding domain family using structural genomics-based approach. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 133, 484-494	7.9	11
42	Molecular interactions of food additive dye quinoline yellow (Qy) with alpha-lactalbumin: Spectroscopic and computational studies. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 311, 113215	6	11
41	Antiviral potential of some novel structural analogs of standard drugs repurposed for the treatment of COVID-19. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 39, 6676-6688	3.6	11
40	Non-enzymatic glycation of protein induces cancer cell proliferation and its inhibition by quercetin: Spectroscopic, cytotoxicity and molecular docking studies. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 39, 777-786	3.6	11
39	Orchestration of Neutrophil Extracellular Traps (Nets), a Unique Innate Immune Function during Chronic Obstructive Pulmonary Disease (COPD) Development. <i>Biomedicines</i> , <b>2021</b> , 9,	4.8	11
38	Nitric Oxide Enhances Photosynthetic Nitrogen and Sulfur-Use Efficiency and Activity of Ascorbate-Glutathione Cycle to Reduce High Temperature Stress-Induced Oxidative Stress in Rice ( <i>L.</i> ) Plants. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	11
37	Concatenation of molecular docking and molecular simulation of BACE-1, ßsecretase targeted ligands: in pursuit of Alzheimer's treatment. <i>Annals of Medicine</i> , <b>2021</b> , 53, 2332-2344	1.5	10
36	ROS induces NETosis by oxidizing DNA and initiating DNA repair. <i>Cell Death Discovery</i> , <b>2021</b> , 7, 113	6.9	10
35	Interspecies Anticancer and Antimicrobial Activities of Genus and Estimation of Rutin by Validated UPLC-PDA Method. <i>Evidence-based Complementary and Alternative Medicine</i> , <b>2018</b> , 2018, 6040815	2.3	9
34	Insignificant ßactamase activity of human serum albumin: no panic to nonmicrobial-based drug resistance. <i>Letters in Applied Microbiology</i> , <b>2013</b> , 57, 325-9	2.9	9

33	Design and Development of Novel Urea, Sulfonyltriurea, and Sulfonamide Derivatives as Potential Inhibitors of phingosine Kinase 1. <i>Pharmaceuticals</i> , <b>2020</b> , 13,	5.2	8
32	Understanding the interaction between E1-acid glycoprotein (AGP) and potential Cu/Zn metallo-drugs of benzimidazole derived organic motifs: A multi-spectroscopic and molecular docking study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2020</b> , 225, 117457	4.4	8
31	Structural and functional studies on a variant of cystatin purified from brain of Capra hircus. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2017</b> , 35, 1693-1709	3.6	7
30	Insights into the Conserved Regulatory Mechanisms of Human and Yeast Aging. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	7
29	Phage Display Technique: A Novel Medicinal Approach to Overcome Antibiotic Resistance by Using Peptide-Based Inhibitors Against $\beta$ -Lactamases. <i>Current Drug Metabolism</i> , <b>2017</b> , 18, 90-95	3.5	7
28	Food color Tartrazine interferes with quorum sensing regulated functions and obliterates biofilm formed by food associated bacteria: An approach. <i>Saudi Journal of Biological Sciences</i> , <b>2020</b> , 27, 1080-1090	4.7	7
27	1,2,3-Triazole-quinazolin-4(3H)-one conjugates: evolution of ergosterol inhibitor as anticandidal agent.. <i>RSC Advances</i> , <b>2018</b> , 8, 39611-39625	3.7	7
26	Quinoline yellow (food additive) induced conformational changes in lysozyme: a spectroscopic, docking and simulation studies of dye-protein interactions. <i>Preparative Biochemistry and Biotechnology</i> , <b>2020</b> , 50, 673-681	2.4	6
25	Furanoic Lipid F-6, A Novel Anti-Cancer Compound that Kills Cancer Cells by Suppressing Proliferation and Inducing Apoptosis. <i>Cancers</i> , <b>2019</b> , 11,	6.6	5
24	mTOR Targeting by Different Flavonoids for Cancer Prevention. <i>Current Medicinal Chemistry</i> , <b>2020</b> ,	4.3	5
23	The influence of variations of furanosesquiterpenoids content of commercial samples of on their biological properties. <i>Saudi Pharmaceutical Journal</i> , <b>2019</b> , 27, 981-989	4.4	4
22	Salt potentiates methylamine counteraction system to offset the deleterious effects of urea on protein stability and function. <i>PLoS ONE</i> , <b>2015</b> , 10, e0119597	3.7	4
21	Natural Compounds as Inhibitors of SARS-CoV-2 Main Protease (3CLpro): A Molecular Docking and Simulation Approach to Combat COVID-19		4
20	Cell proliferation activity delineated by molecular docking of four new compounds isolated from the aerial parts of Forssk. ex. J.F. Gmel. <i>Saudi Pharmaceutical Journal</i> , <b>2020</b> , 28, 172-186	4.4	4
19	Biofilm inhibition and DNA binding studies of isoxazole-triazole conjugates in the development of effective anti-bacterial agents. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1201, 127144	3.4	4
18	Exploring the Binding Pattern of Geraniol with Acetylcholinesterase through In Silico Docking, Molecular Dynamics Simulation, and In Vitro Enzyme Inhibition Kinetics Studies.. <i>Cells</i> , <b>2021</b> , 10,	7.9	4
17	Potential Mechanism of Dermal Wound Treatment With Preparations From the Skin Gel of Arabian Gulf Catfish: A Unique Furan Fatty Acid (F6) and Cholesta-3,5-Diene (S5) Recruit Neutrophils and Fibroblasts to Promote Wound Healing. <i>Frontiers in Pharmacology</i> , <b>2020</b> , 11, 899	5.6	3
16	Box-Behnken Design (BBD)-Based Optimization of Microwave-Assisted Extraction of Parthenolide from the Stems of and Cytotoxic Analysis. <i>Molecules</i> , <b>2021</b> , 26,	4.8	3

15	Production of Biodegradable Polymer from Agro-Wastes in sp. and sp. <i>Molecules</i> , <b>2021</b> , 26,	4.8	3
14	Biophysical interactions, docking studies and cytotoxic potential of a novel propofol-linolenate: a multi-technique approach. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2020</b> , 38, 2389-2401	3.6	3
13	Impact of repurposed drugs on the symptomatic COVID-19 patients. <i>Journal of Infection and Public Health</i> , <b>2021</b> , 14, 24-38	7.4	3
12	Soyasapogenol-B as a Potential Multitarget Therapeutic Agent for Neurodegenerative Disorders: Molecular Docking and Dynamics Study. <i>Entropy</i> , <b>2022</b> , 24, 593	2.8	3
11	Oncoglabrinol C, a new flavan from protects endothelial cells against oxidative stress and apoptosis, and modulates hepatic CYP3A4 activity. <i>Saudi Pharmaceutical Journal</i> , <b>2020</b> , 28, 648-656	4.4	2
10	A New Cytotoxic Dimeric Sesquiterpene Isolated from <i>Inula racemosa</i> Hook. f. (Root): In Vitro and In Silico Analyses. <i>Separations</i> , <b>2021</b> , 8, 2	3.1	2
9	Elucidation of molecular interactions of theaflavin monogallate with camel milk lactoferrin: detailed spectroscopic and dynamic simulation studies.. <i>RSC Advances</i> , <b>2021</b> , 11, 26710-26720	3.7	2
8	Investigating the structural features of chromodomain proteins in the human genome and predictive impacts of their mutations in cancers. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 131, 1101-1116	7.9	1
7	Al (III) metal augment thermal aggregation and fibrillation in protein: Role of metal toxicity in neurological diseases. <i>Saudi Journal of Biological Sciences</i> , <b>2020</b> , 27, 2221-2226	4	1
6	Glycation induced conformational transitions in cystatin proceed to form biotoxic aggregates: A multidimensional analysis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2018</b> , 1866, 989-1000 <sup>4</sup>		1
5	Celecoxib, Glipizide, Lapatinib, and Sitagliptin as potential suspects of aggravating SARS-CoV-2 (COVID-19) infection: a computational approach. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 1-12	3.6	1
4	Quinoline yellow dye stimulates whey protein fibrillation via electrostatic and hydrophobic interaction: A biophysical study. <i>Journal of Dairy Science</i> , <b>2021</b> , 104, 5141-5151	4	1
3	Industrially important enzyme bovine liver catalase forms amyloid in the presence of 14-4-14 Gemini surfactant at physiological pH. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 610, 125909	5.1	1
2	Development and validation of UPLC-PDA method for concurrent analysis of bergenin and menisdaurin in aerial parts of ( <i>Roxb. ex Willd.</i> ). <i>Saudi Pharmaceutical Journal</i> , <b>2018</b> , 26, 970-976	4.4	1
1	Preimplantation Endometrial Transcriptomics in Natural Conception Cycle of the Rhesus Monkey. <i>Reproductive Medicine</i> , <b>2022</b> , 3, 16-35	0.5	0