

Amjad Ali

Professor

Atta-Ur-Rahman School of Applied Biosciences

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About

Dr. Amjad Ali is working as Professor in the Atta-Ur-Rahman School of Applied Biosciences. Dr. Amjad Ali has a PhD in Microbial Genetics And Genomics - Biotechnology. Dr. Amjad Ali has published 158 research articles & conference papers having a citation count of 3079, carried out 9 projects and filed 2 intellectual property.

Qualifications

PhD in Microbial Genetics And Genomics -Biotechnology	2010 - 2013
Universidade Federal de Minas Gerais , Brazil	
MPhil in Biotechnology	2006 - 2008
Quaid-i-Azam University , Pakistan	
B.Sc (Hon) in Biotechnology	2001 - 2006
University of Malakand , Pakistan	

Experience

Professor	2024- Present
Atta-Ur-Rahman School of Applied Biosciences	
Associate Professor	2019 - 2019
Atta-Ur-Rahman School of Applied Biosciences	
Assistant Professor	2019 - 2019
Atta-Ur-Rahman School of Applied Biosciences	
Assistant Professor	2016 - 2019
Atta-Ur-Rahman School of Applied Biosciences	
Assistant Professor	2013 - 2016
Atta-Ur-Rahman School of Applied Biosciences	
Visiting Scientist	2019 - 2019
Beijing Institute of Genomics, Chinese Academy of Sciences , Olympic Science Park - Beijing	
Visiting Researcher	2011 - 2011
Technical University of Denmark , Copenhagen	
Researcher	2010 - 2013
Federal University of Minas Gerais , Belo Horizonte	
Research Associate	2007 - 2009
National Institute of Biotechnology and Genetic Engineering , Jhang Road Faisalabad	

Awards

GOLD MEDAL	2021
GOLD Medal and Prize in Emerging Technologies by Pakistan Academy of Sciences (PAS), for the year 2020.	
Research Productivity Awd	2018
Research Productivity Award, Pakistan Council for Science and Technology (PCST), for the year 2017.	
31 Young Productive Sct	2018
31st Young Productive Scientist of Pakistan (under 40) Pakistan Council for Science & Technology (PCST), for the year 2017.	
Best Researcher Award	2017
Best Researcher Award for the year 2016/17. Atta-ur-Rahman School of Applied Biosciences, NUST, in 2017	
School / College Best Researcher Award -2022	

Research Projects

National Projects

ARG-PRISM: Machine Learning-based framework for precise identification of antibiotic resistance genes from metagenomes Funding Agency: NUST Amount: PKR 1,000,000.00 Status: Approved_inprocess	2024
Study on Accurate Early Warning Methods for Dangerous Strains of Global Emerging Infectious Diseases (Project No.: ANSO-CR-KP-2022-09) Funding Agency: ANSO- CHINA Amount: PKR 10,744,250.00 Status: Approved_inprocess	2023
NUST Biomedical Data Bank (NBDB); A Roadmap to Personalized Medicine (Phase-I) Funding Agency: NUST Amount: PKR 1,000,000.00 Status: Completed	2023
An Artificial Intelligence Framework for Data-Driven Analysis of Microbial Pangenomes Funding Agency: HEC Amount: PKR 7,980,000.00 Status: Completed	2022
Assessment of Indigenous Lactobacillus Spp. for Cholesterol Reduction: A Step towards Probiotic Designer Foods Funding Agency: HEC Amount: PKR 2,583,027.00 Status: Completed	2018
Analyzing the Tumor Educated Platelets (TEP) as Potential Bio-Marker in Molecular Diagnosis of Liver Cancer: A minimally Invasive Approach alternative to Tissue Biopsy Funding Agency: HEC Amount: PKR 4,760,000.00 Status: Completed	2017
Analysis of Gene Variants and Investigation of Novel Prognostic Host Factor Targets to Predict Treatement Response to Peg IFN/RBV Therapy in HCV Infected Pakistani Patients and Qualitative and Quantitative Modeling of Pathways Associated with HCV Infection and Host Immune Response Funding Agency: HEC Amount: PKR 2,486,000.00 Status: Completed	2015
Pangenome Analysis of Multidrug Resistant staphylococcus Aures Strains to Get Insights into the Mechannism Of Pathenicity and to identify new Therapeutic Interventions to Replace the Current Antimicrobial Drugs Funding Agency: HEC Amount: PKR 3,967,000.00 Status: Completed	2015
Formal Analysis of the Impact Feeding on Hepatocyte Cicadian Oscillators Funding Agency: HEC Amount: PKR 1,500,000.00 Status: Completed	2015

International Projects

Research Articles

Efficient De Novo Assembly and Recovery of Microbial Genomes from Complex Metagenomes Using a Reduced Set of k-mers <i>Hajra Qayyum Muhammad Faheem Raziq Haseeb Manzoor Syed Shujaat Ali Zaidi Amjad Ali Masood Ur Rehman Kayani</i> <i>Interdisciplinary Sciences: Computational Life Sciences</i> , Pages 1-14 Impact Factor: 3.900 Quartile: 1 DOI: 10.1007/s12539-025-00722-6	2025
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Evaluating the potential of assembler-binner combinations in recovering low-abundance and strain-resolved genomes from human metagenomes <i>Hajra Qayyum Muhammad Sarfraz Amjad Ali Masood Ur Rehman Kayani</i> <i>Heliyon</i> , Volume: 11, Issue: 2, Article Number: e41938, Pages: 15 Impact Factor: 3.4 Quartile: 1 DOI: https://doi.org/10.1016/j.heliyon.2025.e41938	2025
Investigating the Anti-Tubercular Potential of Novel Non-Antibiotic Agents against Drug-Resistant Mycobacterium Tuberculosis <i>Muhammad Fayaz Khan Amjad Ali Anwar Sheed Sadiq Noor Khan Ayesha Obaid Faryal Mehwish Abdul Jabbar</i> <i>BioScientific Review (BSR)</i> , Volume 6, Issue 4, Pages 40-49 Impact Factor: N/A DOI: https://doi.org/10.32350/bsr.64.04	2024
VacSol-ML(ESKAPE): Machine learning empowering vaccine antigen prediction for ESKAPE pathogens <i>Samavi Nasir Farha Anwer Zaara Ishaq Muhammad Tariq Saeed Amjad Ali</i> <i>Vaccine</i> , Volume 42, Issue 22 , Article Number 126204 Impact Factor: 4.500 Quartile: 2 Citations: 5 DOI: https://doi.org/10.1016/j.vaccine.2024.126204	2024
Exploring optimal drug targets through subtractive proteomics analysis and pangenomic insights for tailored drug design in tuberculosis <i>Muhammad Fayaz Khan Amjad Ali Hafiz Muzammel Rehman Sadiq Noor Khan Hafiz Muhammad Hammad Maaz Waseem Yurong Wu Taane G. Clark Abdul Jabbar</i> <i>Scientific Reports</i> , Volume 14, Issue 1, Article Number 10904 Impact Factor: 3.8 Quartile: 1 Citations: 11 DOI: 10.1038/s41598-024-61752-6	2024
Experimental trials of predicted CD4+ and CD8+ T-cell epitopes of respiratory syncytial virus <i>Syeda Tahira Qousain Naqvi Syed Aun Muhammad Jinlei Guo Sidra Zafar Amjad Ali Larry J. Anderson Christina A. Rostad Baogang Bai</i> <i>Frontiers in Immunology</i> , Volume: 15, Pages: 20 Impact Factor: 7.3 Quartile: 1 DOI: 10.3389/fimmu.2024.1349749	2024
AbAMPdb: a database of Acinetobacter baumannii specific antimicrobial peptides <i>Farha Anwer Ahmad Navid Fiza Faiz Uzair Haider Samavi Nasir Muhammad Farooq Maryam Zahra Anosh Bano Hafiza Hira Bashir Madiha Ahmad Syeda Aleena Abbas Shah E Room Muhammad Tariq Saeed Amjad Ali</i> <i>Database : The Journal of Biological Databases and Curation</i>, Volume:2024, Article Number: baae096, Pages: 15 Impact Factor: 3.4 Quartile: 1 Citations: 2 DOI: https://doi.org/10.1093/database/baae096	2024
Immunoinformatics aided designing of a next generation poly-epitope vaccine against uropathogenic Escherichia coli to combat urinary tract infections <i>Zaara Ishaq Tahreem Zaheer Maaz Waseem Hayeqa Shahwar Awan Nimat Ullah Abdullah F. AlAsmari Fawaz AlAsmari Amjad Ali</i> <i>Journal of Biomolecular Structure and Dynamics</i> , Pages 1-21 Impact Factor: 4.4 Quartile: 1 Citations: 1 DOI: https://doi.org/10.1080/07391102.2023.2266018	2023
Genomic characterization and comparative genomic analysis of HS-associated Pasteurella multocida serotype B:2 strains from Pakistan <i>Sadia Mahboob Nimat Ullah Muhammad Farhan Ul Haque Waqar Rauf Mazhar Iqbal Amjad Ali Moazur Rahman</i> <i>BMC Genomics</i> , Volume 24, Issue 1, Article Number 546 Impact Factor: 4.4 Quartile: 1 Citations: 5 DOI: https://doi.org/10.1186/s12864-023-09626-5	2023
Virulence Factors and Antimicrobial Resistance of Uropathogenic Escherichia coli EQ101 UPEC Isolated from UTI Patient in Quetta, Balochistan, Pakistan <i>Sareen Fatima Ali Akbar Muhammad Irfan Muhammad Shafee Amjad Ali Zaara Ishaq Syed Kashif Raza Abdul Samad Mohammad Y. Alshahrani Syed Shah Hassan</i> <i>BioMed Research International</i> , Volume 2023, Article ID 7278070, 12 pages Impact Factor: N/A Citations: 11 DOI: https://doi.org/10.1155/2023/7278070	2023
Employing computational tools to design a multi-epitope vaccine targeting human immunodeficiency virus-1 (HIV-1)	2023

<i>Hamza Sher Hafsa Sharif Tahreem Zaheer Amjad Ali Aneela Javed Sarmad Ahmad Khan Hasnain Javed BMC Genomics</i> , Volume 24, Issue 1, Article Number: 276 Impact Factor: 4.558 Quartile: 2 Citations: 8 DOI: https://doi.org/10.1186/s12864-023-09330-4	2023
Whole-genome sequencing of multidrug resistance Salmonella Typhi clinical strains isolated from Balochistan, Pakistan <i>Sareen Fatima Zaara Ishaq Muhammad Irfan Abdullah F. AlAsmari Jahangir Khan Achakzai Amjad Ali Ali Akbar Tahreem Zaheer Frontiers in Public Health</i> , Volume 11, Article Number 1151805 Impact Factor: 6.461 Quartile: 1 Citations: 10 DOI: 10.3389/fpubh.2023.1151805	2023
Comparative Pan-Genomic Analysis Revealed an Improved Multi-Locus Sequence Typing Scheme for Staphylococcus aureus <i>Maira Jalil Fatima Qudoos Farha Anwer Samavi Nasir Abdur Rahman Metab Alharbi Abdulrahman Alshammari Huda Kamel Alshammari Amjad Ali Genes</i> , Volume 13(11), Article Number 2160 Impact Factor: 4.141 Quartile: 2 Citations: 2 DOI: https://doi.org/10.3390/genes13112160	2022
Molecular Docking and Molecular Dynamics Studies Reveal Secretory Proteins as Novel Targets of Temozolomide in Glioblastoma Multiforme <i>Sumera Farha Anwer Maaz Waseem Areeba Fatima Nishat Malik Amjad Ali Saadia Zahid Molecules</i> , Volume 27, Issue 21, Article Number 7198 Impact Factor: 4.6 Quartile: 2 Citations: 40 DOI: https://doi.org/10.3390/molecules27217198	2022
Draft genome sequences of 25 Salmonella enterica serovar Agona strains isolated from poultry and associated food products harbouring multiple antibiotic resistance genes <i>Muhammad Abubakar Siddique Nimat Ullah Amjad Ali Ami Patel Terence Moore Sophia M. Kenney Erika Ganda Abdur Rahman Journal of Global Antimicrobial Resistance</i> , Volume 29, Pages 131-135 Impact Factor: 4.349 Quartile: 2 Citations: 6 DOI: https://doi.org/10.1016/j.jgar.2022.02.013	2022
Experimental Study of Potential CD8+ Trivalent Synthetic Peptides for Liver Cancer Vaccine Development Using Sprague Dawley Rat Models <i>Sidra Zafar Baogang Bai Jinlei Guo Syed Aun Muhammad Syeda Tahira Qousain Naqvi Muhammad Nauman Shabbir Imran Imran Rehan Sadiq Shaikh Amjad Ali BioMed Research International</i> , Volume 2022, Article ID 4792374, 18 pages Impact Factor: N/A Citations: 4 DOI: https://doi.org/10.1155/2022/4792374	2022
In silico designed Staphylococcus aureus B-cell multi-epitope vaccine did not elicit antibodies against target antigens suggesting multi-domain approach <i>Nimat Ullah Farha Anwer Zaara Ishaq Abubakar Siddique Majid Ali Shah Moazur Rahman Abdur Rahman Xinrui Mao Tingting Jiang Bok Luel Lee Taeok Bae Amjad Ali Journal of Immunological Methods</i> , Volume 504, Article Number 113264 Impact Factor: 2.303 Quartile: 3 Citations: 8 DOI: https://doi.org/10.1016/j.jim.2022.113264	2022
Lactacaseibacillus rhamnosus FM9 and Limosilactobacillus fermentum Y57 Are as Effective as Statins at Improving Blood Lipid Profile in High Cholesterol, High-Fat Diet Model in Male Wistar Rats <i>Hamza Zafar Noor ul Ain Abdulrahman Alshammar Saeed Alghamdi Hafsa Raja Amjad Ali Abubakar Siddique Syeda Dua Tahir Samina Akbar Maryum Arif Metal Alharbi Abdur Rahman Nutrients</i> , Volume 14, Issue 8, Article Number 1654 Impact Factor: 6.706 Quartile: 1 Citations: 27 DOI: https://doi.org/10.3390/nu14081654	2022
Comparative Genomic Analysis of a Pantone–Valentine Leukocidin-Positive ST22 Community-Acquired Methicillin-Resistant Staphylococcus aureus from Pakistan <i>Nimat Ullah Samavi Nasir Zaara Ishaq Farha Anwer Tanzeela Raza Moazur Rahman Abdulrahman Alshammari Metab Alharbi Taeok Bae Abdur Rahman Amjad Ali Antibiotics</i> , Volume 11(4), Article Number 496 Impact Factor: 5.222 Quartile: 1 Citations: 11 DOI: https://doi.org/10.3390/antibiotics11040496	2022

Evaluation of Blood-Brain-Barrier Permeability, Neurotoxicity, and Potential Cognitive Impairment by <i>Pseudomonas aeruginosa</i>'s Virulence Factor Pyocyanin <i>Muhammad Ibrahim Rashid Habiba Rashid Saadia Andleeb Amjad Ali</i> <i>Oxidative Medicine and Cellular Longevity</i>, Volume 2022, Article ID 3060579 Impact Factor: 6.543 Quartile: 2 Citations: 9 DOI: https://doi.org/10.1155/2022/3060579	2022
Antimicrobial Resistance of <i>Shigella flexneri</i> in Pakistani Pediatric Population Reveals an Increased Trend of Third-Generation Cephalosporin Resistance <i>Iqbal Nisa Mohammad Haroon Arnold Driessen Jeroen Nijland Hazir Rahman Nusrat Yasin Mubashir Hussain Taj Ali Khan Amjad Ali Saeed Ahmad Khan Muhammad Qasim</i> <i>Current Microbiology</i>, Volume 79, Article Number: 118 Impact Factor: 2.188 Quartile: 4 Citations: 9 DOI: https://doi.org/10.1007/s00284-022-02805-9	2022
The Epidemiological and Pangenome Landscape of <i>Staphylococcus aureus</i> and Identification of Conserved Novel Candidate Vaccine Antigens <i>Kanwal Naz Nimat Ullah Anam Naz Sidra Irum Hamza Arshad Dar Tahreem Zaheer Fatima Shahid Amjad Ali</i> <i>Current Proteomics</i>, Volume 19, Issue 1, Pages 114-126 Impact Factor: 0.642 Quartile: 4 Citations: 6 DOI: 10.2174/1570164618666210212122847	2022
Quest for Novel Preventive and Therapeutic Options Against Multidrug-Resistant <i>Pseudomonas aeruginosa</i> <i>Sidra Irum Saadia Andleeb Amjad Ali Muhammad Ibrahim Rashid Mahnoor Majid</i> <i>International Journal of Peptide Research and Therapeutics</i>, Volume 27, Issue 4, Pages 2313-2331 Impact Factor: 2.191 Quartile: 4 Citations: 3 DOI: 10.1007/s10989-021-10255-3	2021
<i>Lactobacillus reuteri</i> and <i>Enterococcus faecium</i> from Poultry Gut Reduce Mucin Adhesion and Biofilm Formation of Cephalosporin and Fluoroquinolone-Resistant <i>Salmonella enterica</i> <i>Abubakar Siddique Sara Azim Amjad Ali Fazal Adnan Maryum Arif Muhammad Imran Erika Ganda Abdur Rahman</i> <i>Animals</i>, Volume 11(12), Article Number 3435 Impact Factor: 2.752 Quartile: 1 Citations: 19 DOI: https://doi.org/10.3390/ani11123435	2021
Antimicrobial Resistance and Genomic Characterization of Six New Sequence Types in Multidrug-Resistant <i>Pseudomonas aeruginosa</i> Clinical Isolates from Pakistan <i>Sidra Irum Kanwal Naz Nimat Ullah Zeeshan Mustafa Amjad Ali Muhammad Arsalan Kashaf Khalid Saadia Andleeb</i> <i>Antibiotics-Basel</i>, Volume 10, Issue 11, Article Number 1386 Impact Factor: 5.222 Quartile: 1 Citations: 9 DOI: 10.3390/antibiotics10111386	2021
Fish Sensitizes Methicillin-Resistant <i>Staphylococcus aureus</i> to β-Lactam Antibiotics by Degrading Ypfp, a Lipoteichoic Acid Synthesis Enzyme <i>Won-Sik Yeo Bohyun Jeong Nimat Ullah Majid Ali Shah Amjad Ali Kyeong Kyu Kim Taeok Bae</i> <i>Antibiotics-Basel</i>, Volume 10(10), Article Number 1198 Impact Factor: 4.639 Quartile: 2 Citations: 9 DOI: https://doi.org/10.3390/antibiotics10101198	2021
Genomic Investigation of Methicillin-Resistant <i>Staphylococcus aureus</i> ST113 Strains Isolated from Tertiary Care Hospitals in Pakistan <i>Nimat Ullah Hamza Arshad Dar Kanwal Naz Saadia Andleeb Abdur Rahman Fazal Hanan Taeok Bae Amjad Ali Muhammad Tariq Saeed</i> <i>Antibiotics-Basel</i>, Volume 10(9), Article Number 1121 Impact Factor: 4.639 Quartile: 2 Citations: 9 DOI: https://doi.org/10.3390/antibiotics10091121	2021
Long non-coding RNAs and their targets as potential biomarkers in breast cancer <i>Maryam Khalid Rehan Zafar Paracha Maryum Nisar Sumaira Malik Dr Zamir Hussain Salma Tariq Iqra Arshad Amnah Siddiqi, Jamil Ahmad Amjad Ali</i> <i>IET Systems Biology</i>, Volume 15, Issue 5, Pages 137-147 Impact Factor: 1.615 Quartile: 4 Citations: 5 DOI: https://doi.org/10.1049/syb2.12020	2021
Antimicrobial Resistance Profiling of Biofilm Forming Non Typhoidal <i>Salmonella enterica</i> Isolates from Poultry and Its Associated Food Products from Pakistan	2021

<i>Abubakar Siddique Sara Azim Amjad Ali Saadia Andleeb Aitezaz Ahsan Muhammad Imran Abdur Rahman</i> <i>Antibiotics</i> , Volume 10(7), Article Number 785 Impact Factor: 4.639 Quartile: 2 Citations: 24 DOI: doi.org/10.3390/antibiotics10070785	
Chimeric vaccine designs against <i>Acinetobacter baumannii</i> using pan genome and reverse vaccinology approaches <i>Fatima Shahid Tahreem Zaheer Shifa Tariq Ashraf Muhammad Shehroz Farha Anwer Anam Naz Amjad Ali</i> <i>Scientific Reports</i> , Volume 11, Article Number: 13213 Impact Factor: 4.379 Quartile: 1 Citations: 22 DOI: 10.1038/s41598-021-92501-8	2021
Designing of Potential Polyvalent Vaccine Model for Respiratory Syncytial Virus by System Level Immunoinformatics Approaches <i>Syeda Tahira Qousain Naqvi Mamoona Yasmeen Mehreen Ismail Syed Aun Muhammad Syed Nawazish-i-Husain Amjad Ali Fahad Munir Qi Yu Zhang</i> <i>BioMed Research International</i> , Volume 2021, Article ID 9940010, 18 pages Impact Factor: 3.246 Quartile: 3 Citations: 9 DOI: https://doi.org/10.1155/2021/9940010	2021
Prediction of Prophylactic Peptide Vaccine Candidates for Human Papillomavirus (HPV): An Immunoinformatics and Reverse Vaccinology Approach <i>Mehreen Ismail Zureesha Sajid Amjad Ali Xiaogang Wu Syed Aun Muhammad Rehan Sadiq Shaikh</i> <i>Current Proteomics</i> , Volume 18, 5 Issues, Pages 178-192 Impact Factor: 0.837 Quartile: 4 Citations: 4 DOI: 10.2174/1570164617999200505095802	2021
A Multi-Method and Structure-Based In Silico Vaccine Designing Against <i>Helicobacter pylori</i> Employing Immuno-Informatics Approach <i>Amjad Ali Rehan Zafar Paracha Anam Naz Tahreem Zaheer Hamza A Dar Faryal Mehwish Awan Ayesha Obaid Shifa Tariq Ashraf Arif Malik</i> <i>Current Proteomics</i> , Volume 18, Issue 2, Pages 237-247 Impact Factor: 0.642 Quartile: 4 DOI: https://doi.org/10.2174/1570164617999200414120231	2021
Database Resources of the National Genomics Data Center, China National Center for Bioinformation in 2021 <i>CNCB-NGDC Members and Partners Amjad Ali</i> <i>Nucleic Acids Research</i> , Volume 49(D1), Pages D18-D28 Impact Factor: 16.971 Quartile: 1 Citations: 158 DOI: 10.1093/nar/gkaa1022	2021
Identification of novel vaccine candidates against carbapenem resistant <i>Klebsiella pneumoniae</i>: A systematic reverse proteomic approach <i>Asim Mehmood Samar Naseer Amjad Ali Hina Fatimah Shazia Rehman Aysha Karim Kiani</i> <i>Computational Biology and Chemistry</i> , Volume 89, Article Number 107380 Impact Factor: 2.877 Quartile: 2 Citations: 20 DOI: https://doi.org/10.1016/j.compbiolchem.2020.107380	2020
Structural and functional annotation of PR/SET Domain (PRDM) protein family: In-silico study elaborating role of PRDM12 mutation in congenital insensitivity to pain <i>Sarmad Mehmood Rubina Dad Arsalan Ahmed Muhammad Ikram Ullah Peter John Amjad Ali Christian A. Hubner Aisha Mohyuddin Muhammad Jawad Hassan</i> <i>Computational Biology and Chemistry</i> , Volume 89, Article Number 107382 Impact Factor: 2.877 Quartile: 2 Citations: 4 DOI: 10.1016/j.compbiolchem.2020.107382	2020
Multiepitope Subunit Vaccine Design against COVID-19 Based on the Spike Protein of SARS-CoV-2: An in Silico Analysis <i>Hamza Arshad Dar Yasir Waheed Muzammil Hasan Najmi Saba Ismail Helal F. Hetta Amjad Ali Khalid Muhammad</i> <i>Journal of Immunology Research</i> , Volume 2020, Article ID 8893483 Impact Factor: 4.818 Quartile: 2 Citations: 33 DOI: https://doi.org/10.1155/2020/8893483	2020
Pangenome Analysis of <i>Mycobacterium tuberculosis</i> Reveals Core-Drug Targets and Screening of Promising Lead Compounds for Drug Discovery <i>Hamza Arshad Dar Tahreem Zaheer Nimat Ullah Syeda Marriam Bakhtiar Tianyu Zhang Muhammad Yasir Esam I. Azhar Amjad Ali</i>	2020

Antibiotics , Volume 9(11), Article Number 819

Impact Factor: 4.639 | **Quartile:** 2 | **Citations:** 20

DOI: 10.3390/antibiotics9110819

Anti-COVID-19 multi-epitope vaccine designs employing global viral genome sequences

2020

Tahreem Zaheer Maaz Waseem Walifa Waqar Hamza Arshad Dar Muhammad Shehroz Kanwal Naz Zaara Ishaq Tahir Ahmad Nimat Ullah Syeda Marriam

Bakhtiar Syed Aun Muhammad Amjad Ali

PeerJ , Volume 8, Article Number e9541

Impact Factor: 2.984 | **Quartile:** 2 | **Citations:** 22

DOI: 10.7717/peerj.9541

Designing Multi-Epitope Vaccines to Combat Emerging Coronavirus Disease 2019 (COVID-19) by Employing Immuno-Informatics Approach

2020

Anam Naz Fatima Shahid Tariq Tahir Butt Faryal Mehwish Awan Amjad Ali Arif Malik

Frontiers in Immunology , Volume 11, Article Number 1663

Impact Factor: 5.085 | **Quartile:** 1 | **Citations:** 96

DOI: <https://doi.org/10.3389/fimmu.2020.01663>

A fungal based synthesis method for copper nanoparticles with the determination of anticancer, antidiabetic and antibacterial activities

2020

Sadaf Noor Ziaullah Shah Aneela Javed Amjad Ali Syed Bilal Hussain Sidra Zafar Hazrat Ali Syed Aun Muhammad

Journal of Microbiological Methods , Volume 174, Article Number 105966

Impact Factor: 1.706 | **Quartile:** 3 | **Citations:** 115

DOI: <https://doi.org/10.1016/j.mimet.2020.105966>

Experimental Analysis of T-Cell Epitopes for Designing Liver Cancer Vaccine Predicted by System Level Immuno-informatics Approach

2020

Syed Aun Muhammad Sidra Zafar Samana Zahra Rizvi Imran Imran Fahad Munir Muhammad Babar Jamshed Amjad Ali Xiaogang Wu Numan Shahid

Muhammad Zaeem Qiyu Zhang

American Journal of Physiology-Gastrointestinal and Liver Physiology , Volume 318, Issue 6, Pages G1055-G1069

Impact Factor: 3.725 | **Quartile:** 1 | **Citations:** 9

DOI: 10.1152/ajpgi.00068.2020

Evaluation of Pyocyanin induced systemic pathogenicity of *Pseudomonas aeruginosa*

2020

Muhammad Ibrahim Rashid Saadia Andleeb Amjad Ali

Pakistan Journal of Pharmaceutical Sciences , Volume 33, No.3, Pages 915-922

Impact Factor: 0.562 | **Quartile:** 4 | **Citations:** 7

DOI: doi.org/10.36721/PJPS.2020.33.3.REG.915-922.1

Comparative Analysis of Whole-Genome and Methylome Profiles of a Smooth and a Rough *Mycobacterium abscessus* Clinical Strain

2020

Chiranjibi Chhotaray Shuai Wang Yaoju Tan Amjad Ali Muhammad Shehroz Cuiting Fang Yang Liu Zhili Lu Xingshan Cai M. Adnan Hameed Md Mahmudul

Islam Goverdhan Surineni Shouyong Tan Jianxiong Liu Tianyu Zhang

G3: Genes, Genomes, Genetics , Volume 10(1), Pages 13–22.

Impact Factor: 3.154 | **Quartile:** 3 | **Citations:** 21

DOI: <https://doi.org/10.1534/g3.119.400737>

Whole-genome sequencing of a new sequence type (ST5352) strain of community-acquired methicillin-resistant *Staphylococcus aureus* from a hospital in Pakistan

2019

Nimat Ullah Tanzeela Raza Hamza Arshad Dar Tahreem Zaheer Kanwal Naz Amjad Ali Muhammad Shehroz

Journal of Global Antimicrobial Resistance , Volume 19, Pages 161-163

Impact Factor: 2.706 | **Quartile:** 2 | **Citations:** 5

DOI: <https://doi.org/10.1016/j.jgar.2019.09.015>

Synergy of Green Tea Reduced Tamoxifen-Loaded Silver Nanoparticles Exhibit OGT Downregulation in Breast Cancer Cell Line

2019

Mariam Rasheed Amjad Ali Shahzina Kanwal M. Ismail Nadeem Sabir Faheem Amin

Digest Journal of Nanomaterials and Biostructures , Volume 14, Issue 3, Pages 695-704

Impact Factor: 0.785 | **Quartile:** 4

DOI: -

The Route to 'Chemobrain' - Computational probing of neuronal LTP pathway

2019

Ammad Fahim Muhammad Faraz Bhatti Nasar um Minullah Virk Rehan Zafar Paracha Zaira Rehman Amjad Ali Amir Rashid

Nature Scientific Reports , Volume 9, Article Number 9630

Impact Factor: 4.011 | **Quartile:** 1 | **Citations:** 7

DOI: 10.1038/s41598-019-45883-9	
Fishing for vaccines against <i>Vibrio cholerae</i> using in silico pan-proteomic reverse vaccinology approach <i>Muhammad Ibrahim Rashid Sammia Rehman Amjad Ali Saadia Andleeb</i> <i>PeerJ</i> , Volume: 7, Article Number: e6223 Impact Factor: 2.379 Quartile: 2 Citations: 10 DOI: 10.7717/peerj.6223	2019
Computational Modeling and Analysis of the Impacts of Sleep Deprivation on Glucose Stimulated Insulin Secretion <i>Hufsah Ashraf Jamil Ahmad Azka Hassan Hufsah Ashraf Jamil Ahmad Azka Hassan Amjad Ali</i> <i>Biosystems</i> , Volume 179, Pages 1-14 Impact Factor: 1.623 Quartile: 3 Citations: 4 DOI: 10.1016/j.biosystems.2019.02.005	2019
Preliminary Work Towards Finding Proteins as Potential Vaccine Candidates for <i>Vibrio cholera</i> Pakistani Isolates through Reverse Vaccinology <i>Samia Zeb Sardar Muhammad Gulfam Habib Bokhari Amjad Ali</i> <i>Medicina</i> , Volume 55, Issue 5, Article Number UNSP 195 Impact Factor: 1.467 Quartile: 3 Citations: 7 DOI: 10.3390/medicina55050195	2019
Formal model of the interplay between TGF-β1 and MMP-9 and their dynamics in hepatocellular carcinoma <i>Shifa Tariq Ashraf Ayesha Obaid Muhammad Tariq Saeed Anam Naz Fatima Shahid Jamil Ahmad Amjad Ali</i> <i>Mathematical Bio sciences and Engineering</i> , Volume 16, Issue 5, Pages 3285–3310 Impact Factor: 1.313 Quartile: 4 Citations: 9 DOI: 10.3934/mbe.2019164	2019
A systematic simulation-based meta-analytical framework for prediction of physiological biomarkers in alopecia <i>Rehan Zafar Paracha Syed Aun Muhammad Nighat Fatima Amjad Ali Jake Y. Chen</i> <i>Journal of Biological Research-Thessaloniki</i> , Volume 26, Article Number 2 Impact Factor: 2.364 Quartile: 2 Citations: 13 DOI: 10.1186/s40709-019-0094-x	2019
MicroRNAs and their target mRNAs as Potential Biomarkers among Smokers and Non-Smokers with Lung Adenocarcinoma <i>Zamir Hussain Sumaria Malik Rehan Zafar Paracha Maryam Khalid Maryum Nisar Amnah Siddiqa Raheel Nawaz Amjad Ali Jamil Ahmad</i> <i>IET Systems Biology</i> , Volume 13, Issue 2, Pages 69-76 Impact Factor: 1.392 Quartile: 4 Citations: 2 DOI: 10.1049/iet-syb.2018.5040	2019
PanRV: Pangenome-reverse vaccinology approach for identifications of potential vaccine candidates in microbial pangenome <i>Kanwal Naz Kanwal Naz Amjad Ali Anam Naz Shifa Tariq Ashraf Muhammad Rizwan Jamil Ahmad Jan Baumbach</i> <i>BMC Bioinformatics</i> , Volume 20, Article Number 123 Impact Factor: 2.511 Quartile: 1 Citations: 87 DOI: 10.1186/s12859-019-2713-9	2019
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Editorial Activities

Edited Journal Issue / Proceeding / Book Impact Factor: Y	2022
Reviewed Papers for Journals Impact Factor: 1.793	2020
Editor in Chief of Journal Impact Factor: 0.68	2020
Edited Journal Issue / Proceeding / Book Impact Factor: 4.236	2020
Edited Journal Issue / Proceeding / Book Impact Factor: 4.236	2020
Editor in Chief of Journal	2020
Reviewed Papers for Journals Impact Factor: 2.914	2020
Reviewed Papers for Journals Impact Factor: 2.914	2020
Reviewed Papers for Journals	2019
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