

CURRICULUM VITAE

**PROF. DR.
MUHAMMAD NAVEED**



Nationality: Pakistani
S/O: Muhammad Hanif
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D.O.B: 20th July, 1983
Marital Status: Married
Religion: Islam

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SUMMARY:

Accomplished researcher in Bioinformatics, Molecular Biotechnology, Nano-informatics, and drug/vaccine design, with 242 publications (IF: 3,967.14; >14,852 citations & 40 H-index), 5 patents, 1 book, and 10 book chapters. Supervised 105 MSc, 70 MPhil, and 2 Ph.D. scholars; currently supervising 5 Ph.D. candidates. Recognized among the world's top 2% scientists by Stanford/Elsevier and recipient of the Prof. A. R. Shakoori Gold Medal (2025). Currently the most cited researcher at the University of Central Punjab, Lahore.

ACADEMIC QUALIFICATION:

<u>DEGREE</u>	<u>PASSING YEAR</u>	<u>SUBJECTS</u>	<u>INSTITUTE</u>
Post-Doc	2024	Biotechnology and Bioinformatics	JIANGSU UNIVERSITY, ZHENJIANG, CHINA
PhD	2015	Biotechnology (Bioinformatics)	QUAID-E-AZAM UNIVERSITY ISLAMABAD
Pre-Doc	2013	Molecular Biotechnology	GHENT UNIVERSITY, BELGIUM
MPhil	2009	Biotechnology (Cell & Molecular Biology)	QUAID-E-AZAM UNIVERSITY ISLAMABAD
MSc	2006	Biochemistry	UNIVERSITY OF ARID AGRICULTURE RAWALPINDI PUNJAB
BSc	2003	Botany, Zoology, Chemistry	PUNJAB UNIVERSITY PAKISTAN
HSSC	2001	Pre-Medical	GOVT. COLLEGE GUJRANWALA PAKISTAN
SSC	1999	Science	FEDERAL BOARD ISLAMABAD PAKISTAN

Ph.D. THESIS TITLE

“Genetic expressions and Bioinformatics of PQQ dependent Glucose dehydrogenase (GDH) and probing its role in Plants”

Current job/Professional Experiences:

<u>POSITION</u>	<u>INSTITUTION/COMPANY</u>	<u>DURATION</u>
Professor & HOD Biotechnology	University Central Punjab, Lahore	2025- To date
Associate Professor	University Central Punjab, Lahore	2020-2025
Assistant Professor	University Central Punjab, Lahore	2017-2020
Assistant Professor (BS-19), HOD Biotechnology Additional duties: Deputy Director (QEC), Director of student affairs (FoS)	University Of Gujrat, Sialkot Campus	2016-2017
Assistant Professor (BS-19) Additional duties: Member of Discipline, admission, and scholarship committee	University Of Gujrat, Gujrat	2015-2016
Quality Control Manager (QCM)	Pepsi Cola International, Islamabad	2014-2015
Food Safety Manager/Quality control chemist	Pepsi Cola International, Islamabad	2008-2012
Internee (BPS-17)	Ministry of Science and Technology, Islamabad	2006-2007
Lecturer	Al-Ahmed School and College, Shamsabad, Rawalpindi	2005-2007

DISTINCTATIONS/AWARDS:

- ❖ Awarded **Prof. A. R. Shakoori Gold Medal** (2025) in biological sciences.
- ❖ **world's top 2% scientists** by Stanford/Elsevier.
- ❖ Most **cited researcher (15K)** at the University of Central Punjab, Lahore.
- ❖ Won "**Productive Research Award 2019, 2021, 2022** University of Central Punjab, Lahore.
- ❖ Won "**Best Researcher Award 2018**", University of Central Punjab, Lahore.
- ❖ Have **won 1st Position (Gold medal)** in poster presentation competition in 1st National conference on emerging trends in Bioinformatics, HU Mansehra, 20-22 July, 2017
- ❖ Listed among **top 10 young Scientist** in field of Bioinformatics in Pakistan in 1st National conference on emerging trends in Bioinformatics, HU Mansehra, 20-22 July, 2017.
- ❖ Awarded and honored as "**Distinguished Alumni**" from Quaid-e-Azam University on its Golden Jubilee celebrations 2017
- ❖ Won **Research productivity** award 2016
- ❖ Won **Best teacher award** of the year 2016 (Biochemistry & Biotechnology)
- ❖ Got **Vice-chancellor award** (3rd position) in MSc Biochemistry from PMAS arid Agriculture University, Islamabad.
- ❖ **HEC IRSIP** best PhD Scholar of the year 2013.
- ❖ Got **A grade** in MPhil as well in PhD degrees.
- ❖ Won **HEC indigenous scholarship** for PhD study.
- ❖ Won **HEC IRSIP scholarship** for Belgium & Germany for PhD research work.
- ❖ International **researcher of the year** (2013) of Ghent University, Belgium.
- ❖

EXTRA-CURRICULAR ACTIVITIES:

Member of **Admission and scholarship committee** of University of Gujrat 2015.

Sports Manager, Faculty of Sciences, University of Gujrat, 2016.

Student Coordinator of HEC IRSIP program from 2013.

Athlete of the Years 2005&2006 of **University of Arid Agriculture Rrawalpindi**.

Athlete of the Years 2008 of **Quaid-e-Azam University, Islamabad**.

Participation in **all Pakistan inter-Universities games** to represent **Quaid-e-Azam University** in Athletic events (2008).

CURRICULUM VITAE

MAJOR SUBJECTS:

- BIOINFORMATICS
- COMPUTATIONAL BIOLOGY
- NANOINFORMATICS
- MOLECULAR BIOTECHNOLOGY
- GENOMICS AND PROTEOMICS
- PROTEIN STRUCTURE, FUNCTION AND ENGINEERING

SEQUENCE SUBMITTED IN NCBI GENBANK DATABASE:

I have submitted around **100 genes sequences** to NCBI databank and got accession numbers for 16S rRNA, House-keeping genes (rpoB, rpoD, RecA & gyrB), **antibiotics** resistance genes, PQQ operon (pqqABCDEF), GDH and fungal genes with following **accession numbers**;

- ❖ 16S rRNA gene sequences **KC886280** to **KC886293**
- ❖ Housekeeping genes **KM251440** to **KM251448**
- ❖ GDH genes sequences **KM251437** to **KM251462**
- ❖ PQQ genes sequences **KM251417** to **KM251436**
- ❖ Fungal genes sequences **KJ934897** to **KJ934930**

SCIENTIFIC PROJECT:

Dr. Muhammad Naveed (PI) and Dr. Sajid Mehmood (Co-PI); "Structural and functional evaluation of bacterial Glucose Dehydrogenase and Pyrroloquinoline Quinine Double Mutant for induced systemic resistance in plants" (**0.5 million**) of **Higher education commission (HEC)** Islamabad, Pakistan (completed).

PATENT's DETAILS:

1. Green Synthesis of Bimetallic Nanoparticles using Leaf Extract of *Vallisneria spiralis* and their Biological Potential.
2. Biofabrication of Bimetallic Nanoparticles using *Vallisneria spiralis* Leaf Extract for Enhanced Bioactivity.
3. Computational Design of Monoclonal Antibody Conjugate for Treating Oral Squamous Cell Carcinoma.
4. A Multi-epitope Malignant Mesothelioma Vaccine (MMV) Candidate

HOBBIES:

- Teaching
- Research work
- Playing Sports
- Tourism
- Social work

LANGUAGES:

- English
- Urdu
- Punjabi

INTERNATIONAL REVIEWER OF JOURNALS:

- ❖ British Journal of Microbiology
- ❖ Archives of Microbiology
- ❖ Nature Scientific Reports
- ❖ American Journal of Experimental Agriculture
- ❖ The Cell
- ❖ Pakistan Journal of Botany
- ❖ Journal of Applied biology
- ❖ World Journal of Microbiology and Biotechnology
- ❖ British Biotechnology Journal
- ❖ Bioscience, Biotechnology, and Biochemistry

INTERNATIONAL EDITOR OF JOURNALS:

- ❖ Journal of Drug Design and Medicinal Chemistry
- ❖ The Food International
- ❖ UCP Journal of Science and Technology



YouTube

“Dr. Muhammad Naveed”

Bioinformatic, Molecular Biotechnology & Motivational Lectures

PUBLICATIONS:

1. Naveed, Muhammad & Saleem, Ayesha & Aziz, Tariq & Khatoon, Khadija & Salah Ud Din, Maida. (2025). Elucidating the synergistic role of hybrid peptide from Burkholderia cepacia enzymes in biodegradation of polycyclic aromatic hydrocarbons. Scientific Reports. (IF: 4.6)
2. Naveed, Muhammad & Khan, Sana & Aziz, Tariq & Khatoon, Khadija & Javed, Tayyab & Salah Ud Din, Maida & Khan, Ayaz Ali. (2025). Deciphering Paraquat Remediation Pathways by Pseudomonas sp. FEN Through Computational Insights. Molecular Biotechnology. 10.1007/s12033-025-01423-7. (IF: 2.4)
3. Sadia, Haleema & Qureshi, Irfan & Naveed, Muhammad & Aziz, Tariq & Albekairi, Thamer & Alasmari, Abdullah. (2025). Synergistic effects of vitamin C and curcumin in mitigating bupropion-induced toxicity in non-target animal species. Cogent Food & Agriculture. 11. 10.1080/23311932.2025.2481419. (IF: 2.7)
4. Naveed, Muhammad & Saad, Muhammad & Aziz, Tariq & Makhdoom, Syeda & Jamil, Hamza & Khan, Ayaz Ali & Al-Hoshani, Nawal & Al-Joufi, F. & Kassim, Roaa & Alwethaynani, Maher. (2025). Exploration of mRNA-modifying METTL3 oncogene as momentous prognostic biomarker responsible for colorectal cancer development. Open Medicine. 20. 10.1515/med-2025-1167. (IF: 2.0)
5. Naveed, Muhammad & Ibrahim, Shumaila & Aziz, Tariq & Asim, Muhammad & Majeed, Muhammad & Khan, Ayaz Ali & Saddig, Rania & Alwethaynani, Maher & Al-Joufi, F. & Fallatah, Deema. (2025). Computational drug design for neurosyphilis disease by targeting Phosphoglycerate Kinase in Treponema pallidum with enhanced binding affinity and reduced toxicity. Scientific Reports. (IF: 4.6)
6. Naseeb, Jasra & Naveed, Muhammad & Al-Dalali, Sam & Sarwar, Abid & Yang, Zhennai & Aziz, Tariq & Al-Asmari, Fahad & Fallatah, Deema & Alwabsi, Hayam & Al-Joufi, F. & Alwethaynani, Maher & Sameeh, Manal. (2025). Integrative Interpretation of Linoleic Acid Biotransformation by Probiotic Pedicoccus acidilactici BCB1H via Metabolite Profiling and Enzyme Interaction Analysis. LWT. 222. 10.1016/j.lwt.2025.117664. (IF: 6.0)
7. Azhar, Muzammal & Tahir Maqbool, Dr & Ali, Fatima & Altaf, Dr & Atif, Muhammad & Ali, Zulfiqar & Qureshi, Zahid & Naveed, Muhammad & Aziz, Tariq & Mohamed, Rania & Al-Joufi, F. & Alwethaynani, Maher. (2025). Adefovir anticancer potential: Network pharmacology, anti-proliferative & apoptotic effects in HeLa cells. Biomolecules & biomedicine. 10.17305/bb.2025.12058. (IF: 3.1)
8. Ali, Urooj & Makhdoom, Syeda & Javed, Muhammad & Khan, Rafia & Naveed, Muhammad & Abbasi, Bilal & Aziz, Tariq & Alshehri, Fatma & Al-Asmari, Fahad & Al-Joufi, F. & Alwethaynani, Maher. (2025). Fenugreek seeds as a natural source of L-arginine-encapsulated lipid nanoparticles against diabetes. Scientific Reports. 15. 10.1038/s41598-025-90675-z. (IF: 4.6)

PUBLICATIONS:

9. Ali, Urooj & Makhdoom, Syeda & Javed, Muhammad & Khan, Rafia & Naveed, Muhammad & Abbasi, Bilal & Aziz, Tariq & Alshehri, Fatma & Al-Asmari, Fahad & Al-Joufi, F. & Alwethaynani, Maher. (2025). Fenugreek seeds as a natural source of L-arginine-encapsulated lipid nanoparticles against diabetes. *Scientific Reports*. 15. 10.1038/s41598-025-90675-z. **(IF: 4.6)**
10. Naveed, Muhammad & Hanif, Nimra & Aziz, Tariq & Waseem, Muhammad & Alharbi, Metab & Alshammari, Abdulrahman & Alasmari, Abdullah. (2025). Insight into molecular and mutational scrutiny of epilepsy associated gene Gabrg2 leading to novel computer-aided drug designing. *Scientific Reports*. 15. 10.1038/s41598-025-91505-y. **(IF: 4.6)**
11. Naveed, Muhammad & Khan, Sara & Aziz, Tariq & Rehman, Shafiq ur & Makhdoom, Syeda & Al-harbi, Mitub & Alshammari, Abdulrahman. (2025). Elucidation of Bacterial-Mediated Hesperidin Transformation, Structural Evaluation, and Computational Drug Targeting against *Helicobacter pylori*. *Molecular Biotechnology*. 1-15. 10.1007/s12033-025-01406-8. **(IF: 2.4)**
12. Din, M. S. U., Naveed, M., Aziz, T., Makhdoom, S. I., Waseem, M., Khan, A. A., ... & Alasmari, A. F. Comprehensive Characterization and Bioactivity Assessment of Titanium Dioxide Nanoparticles Synthesized Using *Chrysanthemum indicum* Leaf Extract. *Chemistry & Biodiversity*, e202500244. **(IF: 2.4)**
13. Aziz, Tariq & Naveed, Muhammad & Shabbir, Muhammad & Naseeb, Jasra & Sarwar, Abid & Zhao, Liqing & Yang, Zhennai & Haiying, Cui & Lin, Lin & Shami, Ashwag & Al-Asmari, Fahad. (2025). Genomic profiling of *pediococcus acidilactici* BCB1H and identification of its key features for Biotechnological innovation, food technology and medicine. *Scientific Reports*. 15. 10.1038/s41598-025-90633-9. **(IF: 4.6)**
14. Naveed, M., Arshad, A., Aziz, T., Ali, A., Ibrahim, S., Atta, A., ... & Alasmari, A. F. (2025). Comparative analysis of the Degradation Potential of Enzymes obtained from *Escherichia coli* against Toxicity of VAT dyes through Molecular Docking. *Desalination and Water Treatment*, 101064. **(IF: 1.4)**
15. Naveed, Muhammad & Abid, Amina & Aziz, Tariq & Saleem, Ayesha & Arshad, Arooj & Javed, Khushbakht & Rehman, Hafiz & Nabi, Ghulam & Al-harbi, Mitub & Alasmari, Abdullah. (2025). Fragment optimized chalcone derivatives targeting OmpA protein as a therapeutic approach against multidrug resistant *Acinetobacter baumannii*. *Scientific Reports*. 15. 10.1038/s41598-025-88191-1. **(IF: 4.6)**
16. Naveed, M., Khatoon, K., Aziz, T., Naveed, R., Majeed, M. N., Ud Din, M. S., ... & Alasmari, A. F. (2025). Scrutinizing the evidence of anthracene toxicity on adrenergic receptor beta-2 and its bioremediation by fungal manganese peroxidase via in silico approaches. *Scientific Reports*, 15(1), 3795. **(IF: 4.6)**
17. Naveed, Muhammad & Iqbal, Fatima & Aziz, Tariq & Saleem, Ayesha & Javed, Tayyab & Afzal, Mahrukh & Waseem, Muhammad & Alharbi, Metab & Albekairi, Thamer. (2025). Exploration of alcohol dehydrogenase EutG from *Bacillus tropicus* as an eco-friendly approach for the degradation of polycyclic aromatic compounds. *Scientific Reports*. 15. 10.1038/s41598-025-86624-5. **(IF: 4.6)**
18. Kiran, Asia & Altaf, Dr & Sarwar, Muhammad & Tahir Maqbool, Dr & Ashraf, Muhammad & Naveed, Muhammad & Aziz, Tariq & Alharbi, Metab. (2025). Exploring the phytochemical profile, antioxidant activity, and anticancer potential of *Achillea millefolium* extracts: In-vitro and in-silico investigation. *South African Journal of Botany*. 10.1016/j.sajb.2024.12.038. **(IF: 3.65)**
19. Azeem, A., Naveed, M., Mahmood, S., ur Rehman, S., Aziz, T., Assiri, N. A., ... & Al-Joufi, F. A. (2025). Green synthesis and eco-biological evaluation of Ag/Fe bimetallic nanoparticles using *Vallisneria spiralis* leaf extract targeting insecticide resistance. *Particuology*, 97, 80-98. **(IF: 4.6)**

CURRICULUM VITAE

HIGHER EDUCATION COMMISSION

❖ **HEC approved Ph.D.
supervisor**

MPhil and Ph.D. students SUPERVISION

- ❖ **MPhil students**; A total of **70** student's thesis supervised
- ❖ **Ph.D students**; A total of **05** students.

REFERENCES:

Name **Prof. Dr. Abdul Samad
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Years known 2017

- Naveed, Muhammad & Ali, Imran & Aziz, Tariq & Saleem, Ayesha & Rajpoot, Zeerwah & Khaleel, Sameera & Khan, Ayaz Ali & Al-harbi, Mitub & Albekairi, Thamer. (2025). Computational and GC-MS screening of bioactive compounds from Thymus Vulgaris targeting mycolactone protein associated with Buruli ulcer. Scientific Reports. 15. 10.1038/s41598-024-83908-0. (IF: 4.6)
- Naveed, Muhammad & Hussain, Muzamal & Aziz, Tariq & Hanif, Nimra & Kanwal, Nazia & Arshad, Arooj & Alsahammari, Abdulrahman & Alharbi, Metab. (2024). Computational biology assisted exploration of phytochemicals derived natural inhibitors to block BZLF1 gene activation of Epstein- Bar virus in host. Scientific Reports. (IF: 4.6)
- Abid, Amina & Naveed, Muhammad & Aziz, Tariq & Shabbir, Muhammad & Mubeen, Hira & Khan, Ayaz Ali & Alsmari, Abdullah. (2024). In-vitro and in-vivo assessments of greenly synthesized iron oxide nanoparticles from Cascabela thevetia plant extract for the treatment of ventricular septal defect. South African Journal of Botany. 177. 10.1016/j.sajb.2024.12.008. (IF: 4.6)
- Arndt, Michael & Habtegiorgis, Yohannes & Abbasi-Kangevari, Mohsen & Abd Elhafeez, Samar & Abdelmasseh, Michael & Abd-elsalam, Sherief & Abdulah, Deldar & Suliankatchi, Rizwan & Abidi, Hassan & Abiodun, Olumide & Aboagye, Richard & Abolhassani, Hassan & Derso, Yonas & Abu-Gharbieh, Eman & Abu-Rmeileh, Niveen & Acuna, Juan & Adamu, Kidist & Adane, Denberu & Addo, Isaac & Reiner, Robert. (2024). Global, regional, and national progress towards the 2030 global nutrition targets and forecasts to 2050: a systematic analysis for the Global Burden of Disease Study 2021. The Lancet. 10.1016/S0140-6736(24)01821-X. (IF: 168.9)
- Naveed, Muhammad & Saleem, Ayesha & Aziz, Tariq & Naveed, Rida & Din, Maida & Shabbir, Muhammad & Khan, Ayaz Ali & Alamari, Abdulhakeem & Alsanie, Walaa & Alhomrani, Majid. (2024). Differentially Expressed Genes in Lung Cancer: Molecular Docking of Hypoxanthine Guanine-Phosphoribosyl Transferase with Dibutyl Phthalate. Journal of Computational Biophysics and Chemistry. 1375-1387. (IF: 2.8)
- Naveed, Muhammad & Mughal, Muhammad & Aziz, Tariq & Makhdoom, Syeda & Jamil, Hamza & Khan, Ayaz Ali & Haq, Taqweem & ALAMRI, Abdulhakeem & Alsanie, Waala & Alhormani, Majid. (2024). Transcriptomic Analysis for Elucidating the Therapeutic Potential of Sitagliptin Against the Identified TOP2A/UBE2C/CKS2 Genes as Mutually Inclusive Theragnostic Signatures of Bladder and Prostate Cancer. Journal of Computational Biophysics and Chemistry. (IF: 2.8)
- Naveed, Muhammad & Waseem, Muhammad & Mahkdoom, Izma & Ali, Nouman & Asif, Farrukh & Ul, Jawad & Jamil, Hamza. (2024). Transient comparison of techniques to counter multi- drug resistant bacteria: prime modules in curation of bacterial infections. Frontiers in Antibiotics. Volume 2. 10.3389/frabi.2023.1309107.

27. **Naveed**, Muhammad & Mahmood, Sarmad & Aziz, Tariq & Azeem, Arooj & Rajpoot, Zeerwah & Rehman, Shafiq ur & Al-Asmari, Fahad & Alahmari, Amirah & Saleh, Ohud & Sameeh, Manal & Alhomrani, Majid & ALAMRI, Abdulhakeem & Alshareef, Sahar. (2024). Green-synthesis of silver nanoparticles AgNPs from *Podocarpus macrophyllus* for targeting GBM and LGG brain cancers via NOTCH2 gene interactions. *Scientific Reports*. 14. 10.1038/s41598-024-75820-4. **(W-IF: 4.6)**
28. **Naveed**, Muhammad & Fatima, Furrmein & Aziz, Tariq & Iftikhar, Muhammad & Javed, Tayyab & Majeed, Muhammad Nouman & Rehman, Hafiz & Khan, Aswad & Alhomrani, Majid & Alsanie, Walaa & Alamari, Abdulhakeem. (2024). Rational computational design and development of an immunogenic multiepitope vaccine incorporating transmembrane proteins of *Staphylococcus lugdunensis*. *International Immunopharmacology*. 143. 10.1016/j.intimp.2024.113345. **(W-IF: 5.6)**
29. Amin, Aatif & **Naveed**, Muhammad & Rasheed, Sunbul & Latif, Zakia & Aziz, Tariq & Al-Asmari, Fahad & Aljabri, Maha. (2024). Characterization of mercury ameliorating rhizobacteria for enhancing growth and yield of *Triticum aestivum* L. in the field: An in-vitro and in-silico study. *South African Journal of Botany*. 175. 44-55. 10.1016/j.sajb.2024.09.071. **(W-IF:3.6)**
30. **Naveed**, Muhammad & Tabassum, Natasha & Aziz, Tariq & Shabbir, Muhammad & Alkhateeb, Mariam & Alghamdi, Saad & Babalghith, Ahmad & Alsaiari, Ahad & Alshareef, Sahar & Barqawi, Aminah. (2024). CRISPR-Cas9 guided RNA-based model for the silencing of spinal bulbar muscular atrophy: A functional genetic disorder. *Cellular and molecular biology (Noisy-le-Grand, France)*. **(W-IF: 8.1)**
31. **Naveed**, Muhammad & Aziz, Tariq & Jabeen, Khizra & Khan, Ayaz Ali & Alhomrani, Majid & Alsanie, Walaa & ALAMRI, Abdulhakeem. (2024). The Prominence of the Broad-Spectrum Protease inhibitor gene A2ML1 as a potential biomarker in cervical cancer diagnostics using Immunotherapeutic and Multi-Omics approaches. *International Immunopharmacology*. 142. 10.1016/j.intimp.2024.113126. **(W-IF: 5.6)**
32. **Naveed**, Muhammad & Javed, Khushbakht & Aziz, Tariq & Abid, Amina & Rehman, Hafiz & Alharbi, Metab & Alshammari, Abdulrahman & Alasmari, Abdullah. (2024). Optimizing the resveratrol fragments for novel in silico hepatocellular carcinoma de novo drug design. *Scientific Reports*. 14. 10.1038/s41598-024-68403-w. **(W-IF: 4.6)**
33. **Naveed**, Muhammad & Ali, Urooj & Aziz, Tariq & Jabeen, Khizra & Arif, Muhammad & Alharbi, Metab & Alasmari, Abdullah & Albekairi, Thamer. (2024). Development and immunological evaluation of an mRNA-based vaccine targeting *Naegleria fowleri* for the treatment of primary amoebic meningoencephalitis. *Scientific Reports*. 14. 10.1038/s41598-023-51127-8. **(W-IF: 4.6)**
34. **Naveed**, Muhammad & Hassan, Ali & Aziz, Tariq & Ali, Urooj & Khan, Ayaz Ali & Alharbi, Metab & Alsahammari, Abdulrahman. (2024). Integrating 16S rRNA profiling and in-silico analysis for an epitope-based vaccine strategy against *Achromobacter xylosoxidans* infection. *International Immunopharmacology*. 135. 112287. 10.1016/j.intimp.2024.112287. **(W-IF: 5.6)**
35. **Naveed**, Muhammad & Tahir, Fatima & Aziz, Tariq & Waseem, Muhammad & Makhdoom, Syeda & Ali, Nouman & Alharbi, Metab & Alasmari, Abdullah & Albekairi, Thamer. (2024). Molecular identification of *Proteus mirabilis*, *Vibrio* species leading to CRISPR-Cas9 modification of *tcpA* and *UreC* genes causing cholera and UTI. *Scientific Reports*. 14. 8563. 10.1038/s41598-024-59340-9. **(W-IF: 4.6)**

36. **Naveed**, Muhammad & Majeed, Muhammad & Jabeen, Khizra & Hanif, Nimra & **Naveed**, Rida & Saleem, Sania & Khan, Nida. (2024). Plant Disease Diagnosis with Artificial Intelligence (AI). 10.1007/978-981-99-9621-6_15. **(W-IF: 69.0)**
37. **Naveed**, Muhammad & Zahid, Nafeesa & Fatima, Ibtihaj & Saleem, Ayesha & Majeed, Muhammad & Abid, Amina & Javed, Khushbakht & Wazir, Rehmana & Qasim, Amina. (2024). Sustainable AI-Driven Applications for Plant Care and Treatment. 10.1007/978-981-99-9621-6_16. **(W-IF: 69.0)**
38. **Naveed**, Muhammad & Memon, Zaibun-nisa & Abdullah, Muhammad & Makhdoom, Syeda & Azeem, Arooj & Mahmood, Sarmad & Salahuddin, Maida & Rajpoot, Zeerwah & Majeed, Muhammad. (2024). Use Cases and Future Aspects of Intelligent Techniques in Microbial Data Analysis. 10.1007/978-981-99-9621-6_17. **(W-IF: 69.0)**
39. Ejaz, Umer & Afzal, Muhammad & **Naveed**, Muhammad & Amin, Zeemal & Atta, Asia & Aziz, Tariq & Kainat, Gul & Mehmood, Noshaba & Alharbi, Metab & Alasmari, Abdullah. (2024). Pharmacological evaluation and phytochemical profiling of butanol extract of *L. edodes* with in- silico virtual screening. Scientific Reports. 14. 10.1038/s41598-024-56421-7. **(W-IF: 4.6)**
40. **Naveed**, Muhammad & Ali, Nouman & Aziz, Tariq & Hanif, Nimra & Fatima, Mahnoor & Ali, Imran & Alharbi, Metab & Alasmari, Abdullah & Albekairi, Thamer. (2024). The natural breakthrough: phytochemicals as potent therapeutic agents against spinocerebellar ataxia type 3. Scientific Reports. 14. 10.1038/s41598-024-51954-3. **(W-IF: 4.6)**
41. **Naveed**, Muhammad & Waseem, Muhammad & Makhdoom, Izma & Ali, Nouman & Asif, Farrukh & Ul, Jawad & Jamil, Hamza. (2024). Transient comparison of techniques to counter multi- drug resistant bacteria: prime modules in curation of bacterial infections. Frontiers in Antibiotics. Volume 2. 10.3389/frabi.2023.1309107. **(W-IF: 4.6)**
42. Aziz, Tariq & Hangyu, Hu & **Naveed**, Muhammad & Shabbir, Muhammad & Sarwar, Abid & Nasbeeb, Jasra & Zhennai, Yang & Alharbi, Metab. (2024). Genotypic Profiling, Functional Analysis, Cholesterol-Lowering Ability, and Angiotensin I-Converting Enzyme (ACE) Inhibitory Activity of Probiotic *Lactiplantibacillus plantarum* K25 via Different Approaches. Probiotics and Antimicrobial Proteins. 10.1007/s12602-024-10258-8. **(W-IF: 4.9)**
43. Bryazka, Dana & Reitsma, Marissa & Habtegiorgis, Yohannes & Abd Al Magied, Abdallah & Abdelkader, Atef & Abdollahi, Arash & Abdoun, Meriem & Suliankatchi, Rizwan & Abeldano, Ariel & Abhilash, E. & Abiodun, Olugbenga & Abiodun, Olumide & Aboagye, Richard & Guimarães Abreu, Lucas & Abtahi, Dariush & Abualruz, Hasan & Abubakar, Bilyaminu & Abu-Rmeileh, Niveen, **Naveed**, Muhammad & Aburuz, Salah & Gakidou, Emmanuela. (2024). "Forecasting the effects of smoking prevalence scenarios on years of life lost and life expectancy from 2022 to 2050: a systematic analysis for the Global Burden of Disease Study 2021. **(W-IF:168.9)**
44. Shittu, Aminu & Mokdad, Ali & Bisignano, Catherine & Hsu, Johnathan & Dewan, Syed Masudur Rahman. (2024). Burden of disease scenarios for 204 countries and territories by state in the USA, 2022–2050: a forecasting analysis for the Global Burden of Disease Study 2021. The Lancet. **(W-IF:168.9)**

45. Jacob, Louis & Kisa, Adnan & Kisa, Sezer. (2024). Global burden and strength of evidence for 88 risk factors in 204 countries and 811 subnational locations, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021. *The Lancet*. (W-IF:168.9)
46. **Naveed**, Muhammad & Ali, Imran & Aziz, Tariq & Javed, Khushbakht & Saleem, Ayesha & Hanif, Nimra & Alharbi, Metab. (2024). Investigating the anti-cancer compounds from *Calliandra harrisii* for precision medicine in pancreatic cancer via in-silico drug design and GC-MS analysis. *Zeitschrift für Naturforschung C*. 79. 10.1515/znc-2024-0057. (Y-IF: 2.0)
47. **Naveed**, Muhammad & Ul Ain, Noor & Aziz, Tariq & Saleem, Ayesha & Shabbir, Muhammad & Khan, Ayaz Ali & Albekairi, Thamer. (2024). Integrated track of nano-informatics coupling with the enrichment concept in developing a novel nanoparticle targeting ERK protein in *Naegleria fowleri*. *Open Chemistry*. 22. 10.1515/chem-2023-0198. (X-IF: 2.3)
48. **Naveed**, Muhammad & Mahmood, Sarmad & Aziz, Tariq & Arif, Muhammad & Ali, Urooj. (2023). An mRNA-based reverse-vaccinology strategy to stimulate the immune response against Nipah virus in humans using fusion glycoproteins. *Acta biochimica Polonica*. 70. 10.18388/abp.2020_6721. (Y-IF:1.7)
49. **Naveed**, Muhammad & Saleem, Ayesha & Aziz, Tariq & **Naveed**, Rida & Din, Maida & Shabbir, Muhammad & Khan, Ayaz Ali & Alamari, Abddulhakeem & Alsanie, Walaa & Alhomrani, Majid. (2024). Differentially Expressed Genes in Lung Cancer: Molecular Docking of Hypoxanthine Guanine-Phosphoribosyl Transferase with Dibutyl Phthalate. *Journal of Computational Biophysics and Chemistry*. 1375-1387. (W-IF:2.8).
50. **Naveed**, Muhammad & Jamil, Hamza & Aziz, Tariq & Makhdoom, Syeda & Rehman, Muzammil & Khan, Ayaz & Alhomrani, Majid & Alsanie, Walaa & ALAMRI, Abdulhakeem. (2024). Spatially Resolved Transcriptomic Profiling of PRAME Oncogene Expression in Skin Cutaneous Melanoma: Elucidating Dermato-Oncology Therapy through Molecular Docking. *Journal of Computational Biophysics and Chemistry*. 23. 10.1142/S2737416524500431. (X-IF:2.8)
51. Ul Ain, Noor & **Naveed**, Muhammad & Aziz, Tariq & Shabbir, Muhammad & Al-Asmari, Fahad & Abdi, Gholamreza & Sameeh, Manal & Alhhazmi, Areej. (2024). Mix-match synthesis of nanosynbiotics from probiotics and prebiotics to counter gut dysbiosis via AI integrated formulation profiling. *Scientific Reports*. 14. 18397. 10.1038/s41598-024-69515-z. (W-IF: 4.6)
52. **Naveed**, Muhammad & Aziz, Tariq & Makhdoom, Syeda & Jamil, Hamza & Khan, Ayaz Ali & Haq, Taqweem & ALAMRI, Abdulhakeem & Alsanie, Waala & Alhormani, Majid. (2024). Transcriptomic Analysis for Elucidating the Therapeutic Potential of Sitagliptin Against the Identified TOP2A/UBE2C/CKS2 Genes as Mutually Inclusive Theragnostic Signatures of Bladder and Prostate Cancer. *Journal of Computational Biophysics and Chemistry*. (W-IF:2.8).
53. **Naveed**, Muhammad & Batool Aqeel, Zainab & Aziz, Tariq & Javed, Khushbakht & Ali, Nouman & Rehman, Hafiz & Alharbi, Metab & Alasmari, Abdullah & Alshammari, Abdulrahman. (2024). An in silico approach uncovering the competency of oncolytic human adenovirus 52 for targeted breast cancer virotherapy. *Scientific Reports*. 14. 10.1038/s41598-024-77664-4. (W-IF: 4.6)
54. **Naveed**, Muhammad & Ali, Urooj & Aziz, Tariq & **Naveed**, Rida & Mahmood, Sarmad & Khan, Muhammad & Alharbi, Metab & Albekairi, Thamer & Alasmari, Abdullah. (2024). An Aedes-Anopheles Vaccine Candidate Supplemented with BCG Epitopes Against the Aedes and Anopheles Genera to Overcome Hypersensitivity to Mosquito Bites. *Acta Parasitologica*. 69. 10.1007/s11686-023-00771-1. (X-IF: 2.0)
55. Bryazka, Dana & Reitsma, Marissa & Habtegiorgis, Yohannes & Abd Al Magied, Abdallah & Abdelkader, Atef & Abdollahi, Arash & Abdoun, Meriem & Suliankatchi, Rizwan & Abeldano, Ariel & Abhilash, Richard & Guimarães Abreu, Lucas & Abtahi, Dariush & Abualruz, Bilyaminu & Abu-Rmeileh, Niveen & Aburuz, Salah & Gakidou, Emmanuela, **Naveed**, Muhammad. (2024). Forecasting the effects of smoking prevalence scenarios on years of life lost and life expectancy from 2022 to 2050: a systematic analysis for the Global Burden of Disease Study 2021 (W-IF:168.9)
56. **Naveed**, Muhammad & **Naveed**, Rida & Aziz, Tariq & Azeem, Arooj & Afzal, Mahrukh & Waseem, Muhammad & Alharbi, Metab & Alshammari, Abdulrahman & Alasmari, Abdullah & Albekairi, Thamer. (2024). Biodegradation of PVCs through in-vitro identification of *Bacillus albus* and computational pathway analysis of ABH enzyme. *Biodegradation*. 35. 10.1007/s10532-023-10064-z. (W-IF: 4.8)

57. Amin, Aatif & **Naveed**, Muhammad & Rasheed, Sunbul & Latif, Zakia & Aziz, Tariq & Al-Asmari, Fahad & Aljabri, Maha. (2024). Characterization of mercury ameliorating rhizobacteria for enhancing growth and yield of Triticum Aestivum L. in the field: An in-vitro and in- silico study including those for text and data mining, AI training, and similar technologies. South African Journal of Botany. (W-IF: 3.0)
58. **Naveed**, Muhammad & Abid, Amina & Aziz, Tariq & Saleem, Ayesha & Hanif, Nimra & Ali, Imran & Alasmari, Abdullah. (2024). Comparative toxicity assessment of fisetin-aided artificial intelligence-assisted drug design targeting epibulbar dermoid through phytochemicals. Open Chemistry. 22. 10.1515/chem-2023-0197. (X-IF: 2.3)
59. **Naveed**, Muhammad & Jamil, Hamza & Aziz, Tariq & Makhdoom, Syeda & Sarwar, Abid & Nasbeeb, Jasra & Zhennai, Yang & Alharbi, Metab. (2024). GC–MS analysis of Lactobacillus plantarum YW11 metabolites and its computational analysis on familial pulmonary fibrosis hub genes. Open Chemistry. 22. 10.1515/chem-2024-0019. (X-IF: 2.3)
60. Sadia, Haleema & Qureshi, Irfan & **Naveed**, Muhammad & Aziz, Tariq & Alharbi, Metab & Alasmari, Abdullah & Albekairi, Thamer. (2024). Natural AI-based drug designing by modification of ascorbic acid and curcumin to combat buprofezin toxicity by using molecular dynamics study. Scientific Reports. 14. 10.1038/s41598-024-79275-5. (W-IF: 4.6)
61. **Naveed**, Muhammad & Waseem, Muhammad & Mahkdoom, Izma & Ali, Nouman & Asif, Farrukh & Ul, Jawad & Jamil, Hamza. (2024). Transient comparison of techniques to counter multi- drug resistant bacteria: prime modules in curation of bacterial infections. Frontiers in Antibiotics. Volume 2. 10.3389/frabi.2023.1309107. (W-IF:4.6)
62. **Naveed**, Muhammad & Aziz, Tariq & Makhdoom, Syed & Jamil, Hamza & Khan, Ayaz Ali & Haq, Taqweem & ALAMRI, Abdulhakeem & Alsanie, Walaa & Alhomrani, Majid. (2024). Transcriptomic Analysis for Elucidating the Therapeutic Potential of Sitagliptin Against the Identified TOP2A/UBE2C/CKS2 Genes as Mutually Inclusive Theragnostic Signatures of Bladder and Prostate Cancer. Journal of Computational Biophysics and Chemistry. 1-13. 10.1142/S2737416524500625 (W-IF: 2.8)
63. Carter, Austin & Zhang, Meixin & Tram, Khai & Walters, Magdalene & Jahagirdar, Edmond & Jacobsen, Kathryn & Lasher, Dylan & Mpolya, Emmanuel & Vongpradith, Avina & Ma, Jianing & Verma, Jiawei & Byrne, Sam & Lin, Christine & Dominguez, Regina-Mae & Pease, Spencer & Comfort, Haley & Kyu, Hmwe. (2024). Global, regional, and national burden of HIV/AIDS, 1990-2021, and forecasts to 2050, for 204 countries and territories: the Global Burden of Disease Study 2021. The Lancet HIV. 16. 10.1016/S2352-3018(24)00212-1. (W-IF:168.9)
64. Bhattacharjee, Natalia & Schumacher, Austin & Aali, Amirali & Habtegiorgis, Yohannes & Abbasgholizadeh, Rouzbeh & Abbasian, Mohammadreza & Abbasi-Kangevari, Mohsen & Abbastabar, Hedayat & Abd Elhafeez, Samar & Abd-elsalam, Sherief & Abdollahi, Mohammad & Abdollahifar, Mohammad-Amin & Abdoun, Meriem & Abdullahi, Auwal & Abebe, Mesfin & Abebe, Samrawit & Abiodun, Olumide & Abolhassani, Hassan & Abolmaali, Meysam, **Naveed**, Muhammad & Vollset, Stein. (2024). Global fertility in 204 countries and territories, 1950–2021, with forecasts to 2100: a comprehensive demographic analysis for the Global Burden of Disease Study 2021. The Lancet. 403. 2057-2099. (W-IF:168.9)
65. Naghavi, Mohsen & Ong, Kanyin & Aali, Amirali & Ababneh, Hazim & Habtegiorgis, Yohannes & Cristiana, Abbafati & Abbasgholizadeh, **Naveed**, Muhammad Rouzbeh & Abbasian, Mohammadreza & Abbasi-Kangevari, Mohsen & Abbastabar, Hedayat & Abd Elhafeez, Samar & Abdelmasseh, Michael & Abd-elsalam, Sherief & Abdelwahab, Ahmed & Abdollahi, Mohammad & Abdollahifar, Mohammad-Amin & Abdoun, Meriem & Abdulah, Deldar & Abdullahi, Auwal & Murray, Christopher. (2024). Global burden of 288 causes of death and life expectancy decomposition in 204 countries and territories and 811 subnational locations, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021. The Lancet. 403. 2100-2132. 10.1016/S0140-6736(24)00367-2. (W-IF:168.9)
66. (GBD), global & Faris, **Naveed**, Muhammad, Moezalislam. (2024). Global age-sex-specific mortality, life expectancy, and population estimates in 204 countries and territories and 811 subnational locations, 1950–2021, and the impact of the COVID-19 pandemic. (W-IF:168.9)
67. **Naveed**, Muhammad & Din, Maida & Aziz, Tariq & Javed, Tayyab & Khan, Sana & **Naveed**, Rida & Khan, Ayaz Ali & Alharbi, Metab. (2024). Comparative analysis among the degradation potential of enzymes obtained from Escherichia coli against the toxicity of sulfur dyes through molecular docking. Zeitschrift für Naturforschung C. 79. 10.1515/znc-2024-0072. (Y-IF:2.0)

68. Aziz, Tariq & **Naveed**, Muhammad & Shabbir, Muhammad & Jabeen, Khizra & Khan, Ayaz Ali & Hasnain, Ammarah & Yang, Zhennai & Zinedine, Abdellah & Rocha, João & Albekairi, Thamer. (2024). Designing a Multiepitope Vaccine against the Foodborne Pathogenic Bacteria *Listeria monocytogenes* Using Subtractive Immunoinformatics Approaches. *Frontiers in Bioscience-Landmark*. 29. 10.31083/j.fbl2905176. (X-IF: 3.1)
69. **Naveed**, Muhammad & Azeem, Arooj & Aziz, Tariq & Javed, Khushbakht & Ali, Imran & Khan, Ayaz & Alasmari, Abdullah & Albekairi, Thamer. (2024). Evaluating the MDCK cell permeability of greenly synthesized bimetallic Ag/Zn Nanoparticles using leaf extract of *Vallisneria spiralis* as a potential anti-pesticide-resistant agent. *Zeitschrift für Naturforschung C*. 79. 337-350. 10.1515/znc-2024-0065. (Y-IF: 2.0)
70. **Naveed**, Muhammad & Iqbal, Fatima & Aziz, Tariq & Waseem, Muhammad & Arooj, Rabia & Abid, Amina & Alasmari, Abdullah & Alshammari, Abdulrahman. (2024). In-vitro Isolation of *Serratia marcescens* and Computational Analysis of Lipase-Chitinase as a Hybrid Enzyme for the Degradation of Fungicides to Sustain the Ecosystem. *Journal of Computational Biophysics and Chemistry*. 953-970. (X-IF:2.8)
71. **Naveed**, Muhammad & Javed, Khushbakht & Aziz, Tariq & Zafar, Ali & Fatima, Mahnoor & Ali, Imran & Khan, Ayaz Ali & Albekairi, Thamer. (2024). Redefining a new frontier in alkaptonuria therapy with AI-driven drug candidate design via in-silico innovation. *Zeitschrift für Naturforschung C*. 10.1515/znc-2024-0075. (Y-IF: 2.0)
72. **Naveed**, Muhammad & Javed, Khushbakht & Aziz, Tariq & Zafar, Ali & Fatima, Mahnoor & Rehman, Hafiz & Khan, Abdulhakeem & Alsanie, Walaa & Alhomrani, Majid. (2024). Innovative Approach of High-Throughput Screening in the Drug Discovery Quest for Chronic Bronchitis Treatment. *Journal of Computational Biophysics and Chemistry*. 10.1142/S273741652450056X. (W-IF: 2.8)
73. **Naveed**, Muhammad & Saleem, Ayesha & Aziz, Tariq & **Naveed**, Rida & Din, Maida & Shabbir, Muhammad & Khan, Ayaz Ali & ALAMRI, Abdulhakeem & Alhomrani, Majid. (2024). Differentially Expressed Genes in Lung Cancer: Molecular Docking of Hypoxanthine Guanine-Phosphoribosyl Transferase with Dibutyl Phthalate. *Journal of Computational Biophysics and Chemistry*. 23. 10.1142/S2737416524500509. (X-IF:2.8)
74. **Naveed**, Muhammad & Aziz, Tariq & Makhdoom, Syeda & Saleem, Urooj & Jamil, Hamza & Alhormani, Majid & ALAMRI, Abdulhakeem. (2024). Exploring the Genetic and Molecular Connection between Autism and Huntington's Disease via Transcriptomics and Biological Interaction Networks Analysis. *Journal of Computational Biophysics and Chemistry*. 1-9. (X-IF:2.8)
75. Hu, Gege & **Naveed**, Muhammad & Shabbir, Muhammad & Sarwar, Abid & Yousaf, Junaid & Yang, Zhennai & Aziz, Tariq & Alharbi, Metab & Alsahammari, Abdulrahman. (2024). Revolutionizing the probiotic functionality, biochemical activity, antibiotic resistance and specialty genes of *Pediococcus acidilactici* BCB1H via in-vitro and in-silico approaches. *Zeitschrift für Naturforschung. C, Journal of biosciences*. (Y-IF: 2.0)
76. **Naveed**, Muhammad & Jabeen, Khizra & Aziz, Tariq & Arif, Muhammad & Alharbi, Metab & Albekairi, Thamer & Alasmari, Abdullah. (2024). Designing an mRNA Vaccine against *P. jirovecii* Involved in Fatal Pneumonia Infections via Comparative Proteomics and Reverse Vaccinology Approaches. *Frontiers in Bioscience-Landmark*. 29. 246. 10.31083/j.fbl2907246. (X-IF: 3.1)
77. Aziz, Tariq & **Naveed**, Muhammad & Shabbir, Muhammad & Khan, Ayaz Ali & Sarwar, Abid & Haq, Taqweem & Zhennai, Yang & Alharbi, Metab & Alasmari, Abdullah & Albekairi, Thamer. (2024). Assessment of the whole genome sequencing of *Lactiplantibacillus plantarum* 13-3 for elucidation of novel bacteriocin producing gene cluster and confirmation of its potential probiotic functionality and safety applications. *CyTA - Journal of Food*. 22. 10.1080/19476337.2024.2329753. (Y-IF: 2.0)
78. **Naveed**, Muhammad & Aziz, Tariq & Makhdoom, Syeda & Saleem, Urooj & Jamil, Hamza & Alhormani, Majid & ALAMRI, Abdulhakeem. (2024). Exploring the Genetic and Molecular Connection between Autism and Huntington's Disease via Transcriptomics and Biological Interaction Networks Analysis. *Journal of Computational Biophysics and Chemistry*. 1-9. (W-IF: 2.8)
79. Aziz, Tariq & **Naveed**, Muhammad & Shabbir, Muhammad & Sarwar, Abid & Khan, Ayaz Ali & Hasnain, Ammarah & Haq, Taqweem & Yang, Zhennai & Zinedine, Abdellah & Rocha, João & Alharbi, Metab. (2024). Whole Genome Analysis of Tibetan Kefir-Derived *Lactiplantibacillus Plantarum* 12-3 Elucidates Its Genomic Architecture, Antimicrobial and Drug Resistance, Potential Probiotic Functionality and Safety. *Frontiers in Bioscience-Landmark*. 29. 10.31083/j.fbl2904147. (X-IF: 3.1)
80. **Naveed**, Muhammad & Ali, Nouman & Aziz, Tariq & Hanif, Nimra & Fatima, Mahnoor & Ali, Imran & Alharbi, Metab & Alasmari, Abdullah & Albekairi, Thamer. (2024). The natural breakthrough: phytochemicals as potent therapeutic agents against spinocerebellar ataxia type 3. *Scientific Reports*. 14. 10.1038/s41598-024-51954-3. (W-IF:4.6)

81. **Naveed**, Muhammad & Ali, Urooj & Aziz, Tariq & Jabeen, Khizra & Arif, Muhammad & Alharbi, Metab & Alasmari, Abdullah & Albekairi, Thamer. (2024). Development and immunological evaluation of an mRNA-based vaccine targeting *Naegleria fowleri* for the treatment of primary amoebic meningoencephalitis. *Scientific Reports*. 14. 10.1038/s41598-023-51127-8. **(W-IF:4.6)**
82. **Naveed**, Muhammad & Jabeen, Khizra & Aziz, Tariq & Ul Hassan, Jawad & Sheraz, Mohsin & Rehman, Hafiz. (2023). Whole proteome analysis of MDR *Klebsiella pneumoniae* to identify mRNA and multiple epitope based vaccine targets against emerging nosocomial and lungs associated infections. *Journal of biomolecular Structure & Dynamics*. 10.1080/07391102.2023.2293266. **(W-IF:4.4)**
83. Shabbir, Muhammad & **Naveed**, Muhammad & Rehman, Shafiq ur & Ul Ain, Noor & Aziz, Tariq & Alharbi, Metab & Alsahammari, Abdulrahman & Alasmari, Abdullah. (2023). Synthesis of Iron Oxide Nanoparticles from *Madhuca indica* Plant Extract and Assessment of Their Cytotoxic, Antioxidant, Anti-Inflammatory, and Anti-Diabetic Properties via Different Nanoinformatics Approaches. *ACS Omega*. 8. 10.1021/acsomega.3c02744. **(W-IF:4.1)**
84. **Naveed**, Muhammad & Mahmood, Sarmad & Aziz, Tariq & Azeem, Arooj & Hussain, Ibrar & Waseem, Muhammad & Khan, Ayaz Ali & Alharbi, Metab & Alshammari, Abdulrahman & Alasmari, Abdullah. (2023). Designing a novel chimeric multi-epitope vaccine subunit against *Staphylococcus argenteus* through artificial intelligence approach integrating pan-genome analysis, in vitro identification, and immunogenicity profiling. *Journal of biomolecular structure & dynamics*. 42. 1-16. 10.1080/07391102.2023.2256881. **(W-IF:4.4)**
85. Mateen, Rana & Tariq, Asma & Afzal, Muhammad & Ali, Muhammad & Tipu, Imran & Hussain, Mureed & Saleem, Mahjabeen & **Naveed**, Muhammad. (2022). TULP3 NLS inhibition: an in silico study to hamper cargo transport to nucleus. *Journal of biomolecular Structure & Dynamics*. 10.1080/07391102.2022.2070283. **(W-IF:4.4)**
86. Aziz, Tariq & **Naveed**, Muhammad & Shabbir, Muhammad & Sarwar, Abid & Khan, Ayaz Ali & Zhennai, Yang & Alharbi, Metab & Alsahammari, Abdulrahman & Alasmari, Abdullah. (2023). Comparative genomics of food-derived probiotic *Lactiplantibacillus plantarum* K25 reveals its hidden potential, compactness, and efficiency. *Frontiers in Microbiology*. 14. 10.3389/fmicb.2023.1214478. **(W-IF:5.2)**
87. Waseem, Muhammad & **Naveed**, Muhammad & Rehman, Shafiq ur & Makhdoom, Syeda & Aziz, Tariq & Alharbi, Metab & Alsahammari, Abdulrahman & Alasmari, Abdullah. (2023). Molecular Characterization of spa, hld, fmhA, and lkd Genes and Computational Modeling the Multidrug Resistance of *Staphylococcus* Species through *Callindra harrisii* Silver Nanoparticles. *ACS Omega*. 8. 20920-20936. 10.1021/acsomega.3c01597. **(W-IF:4.1)**
88. Rehman, Hafiz & Rehman, Hafiz & **Naveed**, Muhammad & Khan, Muhammad & Shabbir, Muhammad & Aslam, Shakira & Bashir, Hamid. (2023). In Silico Investigation of a Chimeric IL24-LK6 Fusion Protein as a Potent Candidate Against Breast Cancer. *Bioinformatics and Biology Insights*. 17. 10.1177/11779322231182560. **(W-IF:3.7)**
89. Rehman, Hafiz & Sajjad, Muhammad & Akhtar Ali, Muhammad & Gul, Roquyya & **Naveed**, Muhammad & Aslam, Muhammad & Shinwari, Khyber & Bhinder, Munir & Ghani, Muhammad & Saleem, Mahjabeen & Rather, Ashraf & Ahmad, Ishtiyak & Amin, Adnan. (2023). Identification of RdRp inhibitors against SARS-CoV-2 through E-pharmacophore-based virtual screening, molecular docking and MD simulations approaches. *International Journal of Biological Macromolecules*. 237. 124169. 10.1016/j.ijbiomac.2023.124169. **(W-IF:8.2)**
90. Aziz, Tariq & **Naveed**, Muhammad & Jabeen, Khizra & Shabbir, Muhammad & Sarwar, Abid & Zhennai, Yang & Alharbi, Metab & Alshammari, Abdulrahman & Alasmari, Abdullah. (2023). Integrated genome based evaluation of safety and probiotic characteristics of *Lactiplantibacillus plantarum* YW11 isolated from Tibetan kefir. *Frontiers in Microbiology*. 14. 10.3389/fmicb.2023.1157615. **(W-IF:5.2)**
91. **Naveed**, Muhammad & Aziz, Tariq & Makhdoom, Syeda & Ali, Urooj. (2023). Biosynthesis and Mathematical Interpretation of Zero-Valent Iron NPs Using *Nigella sativa* Seed Tincture for Indemnification of Carcinogenic Metals Present in Industrial Effluents. *Molecules*. 28. 10.3390/molecules28083299. **(W-IF:6.2)**
92. **Naveed**, Muhammad & Ul Ain, Noor & Aziz, Tariq & Javed, Khushbakht & Shabbir, Muhammad & Alharbi, Metab & Alsahammari, Abdulrahman & Alasmari, Abdullah. (2023). Artificial Intelligence Assisted Pharmacophore Design for Philadelphia Chromosome-Positive Leukemia with Gamma-Tocotrienol: A Toxicity Comparison Approach with Asciminib. *Biomedicines*. 11. 1041. 10.3390/biomedicines11041041. **(W-IF:4.7)**
93. **Naveed**, Muhammad & Waseem, Muhammad & Aziz, Tariq & Ul Hassan, Jawad & Makhdoom, Syeda & Ali, Urooj & Alharbi, Metab & Alsahammari, Abdulrahman. (2023). Identification of Bacterial Strains and Development of an mRNA-Based Vaccine to Combat Antibiotic Resistance in *Staphylococcus aureus* via In Vitro and In Silico Approaches. *Biomedicines*. 11. 1039. 10.3390/biomedicines11041039. **(W-IF:4.7)**

94. Rehman, Hafiz & Sajjad, Muhammad & Akhtar Ali, Muhammad & Gul, Roquyya & Irfan, Muhammad & **Naveed**, Muhammad & Bhinder, Munir & Ghani, Muhammad & Hussain, Nadia & Said, Amira & Al Haddad, Amal & Saleem, Mahjabeen. (2023). Identification of NS2B-NS3 Protease Inhibitors for Therapeutic Application in ZIKV Infection: A Pharmacophore-Based High-Throughput Virtual Screening and MD Simulations Approaches. *Vaccines*. 11. 131. 10.3390/vaccines11010131. **(W-IF:9.2)**
95. Aziz, Tariq & **Naveed**, Muhammad & Makhdoom, Syeda & Ali, Urooj & Sarwar, Abid & Khan, Ayaz Ali & Shahzad, Muhammad & Dabool, Anas & Sameeh, Manal & Alhomrani, Majid & ALAMRI, Abdulhakeem & Zhennai, Yang. (2023). molecules Genome Investigation and Functional Annotation of Lactiplantibacillus plantarum YW11 Revealing Streptin and Ruminococcin-A as Potent Nutritive Bacteriocins against Gut Symbiotic Pathogens. *Molecules*. 28. 10.3390/molecules28020491. **(W-IF:8.2)**
96. **Naveed**, Muhammad & Ishfaq, Huda & Rehman, Shafique & Javed, Aneela & Waseem, Muhammad & Makhdoom, Syeda & Aziz, Tariq & Alharbi, Metab & Alshammari, Abdulrahman & Alasmari, Abdullah. (2023). GC-MS profiling of Bacillus spp. metabolites with an in vitro biological activity assessment and computational analysis of their impact on epithelial glioblastoma cancer genes. *Frontiers in Chemistry*. 11. 10.3389/fchem.2023.1287599. **(W-IF:5.5)**
97. Aziz, Tariq & Xingyu, Hu & Sarwar, Abid & **Naveed**, Muhammad & Shabbir, Muhammad & Khan, Ayaz Ali & Haq, Taqweem & Shahzad, Muhammad & Zhennai, Yang & Shami, Ashwag & Sameeh, Manal & Alshareef, Sahar & Tashkandi, Manal & Jalal, Rewaa. (2023). Assessing the probiotic potential, antioxidant, and antibacterial activities of oat and soy milk fermented with Lactiplantibacillus plantarum strains isolated from Tibetan Kefir. *Frontiers in Microbiology*. 14. 10.3389/fmicb.2023.1265188. **(W-IF:5.2)**
98. **Naveed**, Muhammad & **Naveed**, Rida & Aziz, Tariq & Iqbal, Fatima & Hassan, Ali & Saleem, Ayesha & Waseem, Muhammad & Rahman, Shafiq & Alharbi, Metab & Alshammari, Abdulrahman & Alasmari, Abdullah. (2023). Exploring the potential application of peroxidase enzyme from Acinetobacter baumannii as an eco-friendly agent for the bioremediation of the highly noxious pyrethroid compounds through molecular docking analysis. *Biomass Conversion and Biorefinery*. 10.1007/s13399-023-05160-2. **(X-IF:3.5)**
99. Aziz, Tariq & **Naveed**, Muhammad & Shabbir, Muhammad & Sarwar, Abid & Zhao, Liqing & Yang, Zhennai & Cui, Haiying & Lin, Lin & Albekairi, Thamer. (2024). Unveiling the whole genomic features and potential probiotic characteristics of novel Lactiplantibacillus plantarum HMX2. *Frontiers in Microbiology*. 15. 10.3389/fmicb.2024.1504625. **(W-IF: 5.2)**
100. **Naveed**, Muhammad & Shabbir, Muhammad & Khan, Ayaz Ali & Haq, Taqweem & Aziz, Tariq & Saleem, Ayesha & **Naveed**, Rida. (2023). In silico explorations of bacterial mercuric reductase as an ecofriendly bioremediator for noxious mercuric intoxications. *Acta Biochimica Polonica*. 10.18388/abp.2020_6838. **(Y-IF:1.7)**
101. **Naveed**, Muhammad & Shabbir, Muhammad & Aziz, Tariq. (2023). CRISPR-Cas9 guided RNA based model for the treatment of Amyotrophic Lateral Sclerosis: A progressive neurodegenerative disorder. *Acta biochimica Polonica*. 10.18388/abp.2020_6789. **(Y-IF:1.7)**
102. **Naveed**, Muhammad & Javed, Khushbakht & Shabbir, Muhammad & Ul Ain, Noor & Aziz, Tariq. (2023). Halogens engineering-based design of agonists for boosting expression of frataxin protein in Friedreich's ataxia. *European Review for Medical and Pharmacological Sciences*. 27. 6972-6984. **(X-IF:3.3)**
103. **Naveed**, Muhammad & Hassan, J & Aziz, Tariq & Ali, Urooj & Rana, I & Khan, A & Hassan, Fakhrul & Alharbi, Maha & Alshammari, A & Alasmari, A. (2023). A one-health approach to design an mRNA-based vaccine candidate against the lumpy skin disease virus as an alternative to live-attenuated vaccines. 27. 6401-6413. **(W-IF:9.2)**
104. **Naveed**, Muhammad & Aziz, Tariq & Ain, Noor & Shabbir, Muhammad & Nabi, Ghulam. (2023). Side chain inset of neurogenerative amino acids to metalloproteins: a therapeutic signature for huntingtin protein in Huntington's disease. *European Review for Medical and Pharmacological Sciences*. 27. **(X-IF:3.3)**
105. **Naveed**, Muhammad & Ali, Urooj & Aziz, Tariq & Rasool, Muhammad Junaid & Ijaz, Adil & Alharbi, Metab & Alharbi, Mousa & Alshammari, Abdulrahman & Alasmari, Abdullah. (2023). A reverse vaccinology approach to design an mRNA-based vaccine to provoke a robust immune response against HIV-1. *Acta biochimica Polonica*. 70. 10.18388/abp.2020_6696. **(Y-IF:1.7)**

- 106.Naveed**, Muhammad & Ul Ain, Noor & Aziz, Tariq. (2023). A pharmacophore screening approach of homeopathic phenols for a renovated design of fragment- optimized Bauhiniastatin-1 as a drug against acromegaly. European review for medical and pharmacological sciences. 27. 5530-5541. 10.26355/eurev_202306_32790. **(X-IF:3.3)**
- 107.Naveed**, Muhammad & Ul Ain, Noor & Aziz, Tariq & Shabbir, Muhammad & Javed, Khushbakht. (2023). Revolutionizing treatment for toxic shock syndrome with engineered super chromones to combat antibiotic-resistant *Staphylococcus aureus*. 5301-5309. 10.26355/eurev_202306_32649. **(X-IF:3.3)**
- 108.Mensah**, George & Habtegiorgis, Yohannes & Absian, Mohammadreza & Abd-Allah, Foad & Abdollahi, Ashkan & Abdollahi, Mohammad & Abdulah, Deldar & Abdullahi, Auwal & Abebe, Ayele & Abedi, Aidin & Abedi, Armita & Abiodun, Olugbenga & Ali, Hiwa & Abu-Gharbieh, Eman & Abu-Rmeileh, Niveen & Aburuz, Salah & I. Abushouk, **Naveed**, Muhammad, Abdelrahman & Abu-Zaid, Ahmed & Adane, Tigist & Sibhat, Migbar. (2023). Global Burden of Cardiovascular Diseases and Risks, 1990-2022. Journal of the American College of Cardiology. 82. 2350-2473. 10.1016/j.jacc.2023.11.007. **(W-IF:24)**
- 109.Amirkafi**, Ali & Mohammadi, Faezeh & Tehrani-Banihashemi, Arash & Abbasi-Kangevari, Mohsen & Abbasi-Kangevari, Zeinab & Abdollahi, Mohammad & Abu-Gharbieh, Eman & Aghaei, Abbas & Ahmadi, Ali & Ajami, Marjan & Al Thaher, Yazan & Alhalaiqa, Fadwa **Naveed**, Muhammad & Alimohamadi, Yousef & Al-Maweri, Sadeq & Almoustanyir, H. E. Dr. Sami & Amir-Behghadami, Mehrdad & Amiri, Sohrab & Arabloo, Jalal & Ashraf, Tahira & Mokdad, Ali. (2023). Drug-use disorders in the Eastern Mediterranean Region: a glance at GBD 2019 findings. Social Psychiatry and Psychiatric Epidemiology. 59. 10.1007/s00127-023-02587-w. **(W-IF:4.4)**
- 110.Thomson**, Azalea & Mchugh, Theresa & Oron, Assaf & Teply, Corey & Lonberg, Nikhil & Tella, Victor & Wilner, Lauren & Fuller, Kia & Hagins, Hailey & Aboagye, Richard & Aboye, Melka & Abu-Gharbieh, Eman & Abu-Zaid, Ahmed & Addo, **Naveed**, Muhammad, Isaac & Ahinkorah, Bright & Ahmad, Aqeel & Alryalat, Saif Aldeen & Amu, Hubert & Aravkin, Aleksandr & Kassebaum, Nicholas. (2023). Global, regional, and national prevalence and mortality burden of sickle cell disease, 2000–2021: a systematic analysis from the Global Burden of Disease Study 2021. The Lancet Haematology. **(W-IF:168.9)**
- 111.Butt**, Zahid & Abbas, Jaffar & Salman, Muhammad & **Naveed**, Muhammad. (2023). The state of health in Pakistan and its provinces and territories, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. The Lancet Global Health. 11. 10.1016/S2214-109X(22)00497-1. **(W-IF:168.9)**
- 112.Saleem**, Ayesha & Afzal, Muhammad & **Naveed**, Muhammad & Makhdoom, Syeda & Mazhar, Modasrah & Aziz, Tariq & Khan, Ayaz Ali & Kamal, Zul & Shahzad, Muhammad & Alharbi, Metab & Alshammari, Abdelrahman. (2022). HPLC, FTIR and GC-MS Analyses of Thymus vulgaris Phytochemicals Executing in vitro and in vivo Biological Activities and Effects on COX-1, COX-2 and Gastric Cancer Genes Computationally. Molecules. 27. 27. 10.3390/molecules27238512. **(W-IF:4.6)**
- 113.Rai**, Anushree & Nakyanzi, Hamiidah & Abbass, Mortada & Masunga, Daniel & Shoumar, Hussein & Kantawala, Burhan, **Naveed**, Muhammad & Wellington, Jack & Uwishema, Olivier. (2022). Ebola Virus Disease in Uganda: A global emergency call. Annals of Medicine and Surgery. 10.1016/j.amsu.2022.104825 **(X-IF:3.0)**
- 114.Shabbir**, Muhammad & **Naveed**, Muhammad & Asif, Muhammad Farrukh & shahid, Amna & Ul Ain, Noor & Mahmood, Sarmad & Laila, Sayeda & Iftikhar, Muhammad. (2022). Dissemination of Water-Mediated Infections due to Torrential Rainfalls Leading to Havoc Floods: A Dreadful Curve for Pakistan. Prehospital and Disaster Medicine. 37. 1-2. 10.1017/S1049023X22001443. **(X-IF:2.2)**
- 115.Dong**, Qingli & Yang, Wenjian & Zhang, Chunjiang & Ma, Yue & **Naveed**, Muhammad & Khan, Ayaz Ali & Sarwar, Abid & Aziz, Tariq & Makhdoom, Syeda & Ali, Urooj. (2022). Enhancing Bread Quality and Shelf Life via Glucose Oxidase Immobilized on Zinc Oxide Nanoparticles—A Sustainable Approach towards Food Safety. Sustainability. 14. 10.3390/su142114255. **(W-IF:27.6)**
- 116.Mandal**, Santi & Algammal, Abdelazeem & Tiwari, Sandeep & Sun, Yang & **Naveed**, Muhammad & Aziz, Tariq & Shahzad, Muhammad & Jabeen, Khizra & Naz, Sumaira & Nazir, Nausheen. (2022). Evaluation of the whole proteome to design a novel mRNA-based vaccine against multidrug-resistant *Serratia marcescens*. Frontiers in Microbiology. 13. 10.3389/fmicb.2022.960285. **(W-IF:5.2)**
- 117.Aziz**, Tariq & Shahzad, Muhammad & Khan, Ayaz Ali & **Naveed**, Muhammad & Makhdoom, Syeda & Ali, Urooj & Jabeen, Khizra. (2022). Immunoinformatics Approach to Design Multi-Epitope-Based Vaccine against Machupo Virus Taking Viral Nucleocapsid as a Potential Candidate. Vaccines. 10.3390/vaccines10101732. **(W-IF:9.2)**

118. Aziz, Tariq & Shahzad, Muhammad & Sarwar, Abid & **Naveed**, Muhammad & Makhdoom, Syeda & Alhomrani, Majid. (2022). Functional Annotation of *Lactiplantibacillus plantarum* 13-3 as a Potential Starter Probiotic Involved in the Food Safety of Fermented Products. *Molecules*. 27. 10.3390/molecules27175399. (W-IF:4.6)
119. **Naveed**, Muhammad & Jabeen, Khizra & Naz, Rubina & Rabaan, Ali & Bakhrebah, Muhammed & Alhoshani, Fahad & Aljeldah, Mohammed & SHAMMARI, BASIM & Alissa, Mohammed & Sabour, Amal & Alaeq, Rana & Alshiekheid, Maha & Garout, Mohammed & Almogbel, Mohammed & Halwani, Muhammad & Turkistani, Safaa & Ahmed, **Naveed**. (2022). Regulation of Host Immune Response against *Enterobacter cloacae* Proteins via Computational mRNA Vaccine Design through Transcriptional Modification. *Microorganisms*. 10. 1621. 10.3390/microorganisms10081621. (W-IF:4.5)
120. **Naveed**, Muhammad & Batool, Hira & Rehman, Shafiq ur & Javed, Aneela & Makhdoom, Syeda & Aziz, Tariq & Amin Mohamed, Amal & Sameeh, Manal & Alruways, Mashael & Dablood, Anas & Almalki, Abdulraheem & ALAMRI, Abdulhakeem & Alhomrani, Majid. (2022). Characterization and Evaluation of the Antioxidant, Antidiabetic, Anti-Inflammatory, and Cytotoxic Activities of Silver Nanoparticles Synthesized Using *Brachychiton populneus* Leaf Extract. *Processes*. 10. 1-18. (X-IF:3.5)
121. **Naveed**, Muhammad & Bukhari, Bakhtawar & Aziz, Tariq. (2022). Green Synthesis of Silver Nanoparticles Using the Plant Extract of *Acer oblongifolium* and Study of Its Antibacterial and Antiproliferative Activity via Mathematical Approaches. *Molecules*. 27. (W-IF:4.6)
122. Zeb, Shah & Mushtaq, Mariam & Ahmad, Muneeb & Saleem, Waqas & Rabaan, Ali & Naqvi, Bibi & Garout, Mohammed & Aljeldah, Mohammed & Shammari, Basim & Faraj, Nehad & Al-Zaki, Nisreen & Marshood, Mona & Saffar, Thuria & Alsultan, Khadija & Al-Ahmed, Shamsah & Alestad, Jeehan & **Naveed**, Muhammad & Ahmed, **Naveed**. (2022). Self-Medication as an Important Risk Factor for Antibiotic Resistance: A Multi-Institutional Survey among Students. *Antibiotics*. 88. 842. 10.3390/antibiotics11070842. (X-IF:3.3)
123. Amin, Aatif & **Naveed**, Muhammad & Sarwar, Arslan & Rasheed, Sunbul & Saleem, Hafiz & Latif, Zakia & Bechthold, Andreas. (2022). In vitro and in silico Studies Reveal *Bacillus cereus* AA-18 as a Potential Candidate for Bioremediation of Mercury-Contaminated Wastewater. *Frontiers in Microbiology*. 13. 847806. 10.3389/fmicb.2022.847806. (W-IF:5.2)
124. **Naveed**, Muhammad & Yaseen, Allah Rakha & Khalid, Hira & Ali, Urooj & Rabaan, Ali & Garout, Mohammed & Halwani, Muhammad & Al Mutair, Abbas & Alhumaid, Saad & Alawi, Zainab & Alhashem, Yousef & Ahmed, **Naveed** & Yean, Chan. (2022). Execution and Design of an Anti HPIV-1 Vaccine with Multiple Epitopes Triggering Innate and Adaptive Immune Responses: An Immunoinformatic Approach. *Vaccines*. 10. 10.3390/vaccines10060869. (W-IF:9.2)
125. **Naveed**, Muhammad & Ali, Urooj & Karobari, Mohmed & Ahmed, **Naveed** & Mohamed, Roshan & Saquib, Shahabe & Kader, Mohammed & Marya, Anand & Messina, Pietro & Scardina, Giuseppe. (2022). A Vaccine Construction against COVID-19-Associated Mucormycosis Contrived with Immunoinformatics-Based Scavenging of Potential Mucoralean Epitopes. *Vaccines*. 2022. 664. 10.3390/vaccines10050664. (W-IF:9.2)
126. Aziz, Tariq & Sarwar, Abid & **Naveed**, Muhammad & Shahzad, Muhammad & Shabbir, Muhammad & Dablood, Anas & Din, Jalal & Khan, Ayaz Ali & Naz, Sumaira & Cui, Haiyang & Lin, Lin. (2022). Bio-Molecular Analysis of Selected food derived *Lactiplantibacillus* strains for CLA Production Reveals possibly a complex mechanism. *Food Research International*. 111031. 10.1016/j.foodres.2022.111031. (W-IF:8.1)
127. **Naveed**, Muhammad & Sheraz, Mohsin & Amin, Aatif & Waseem, Muhammad & Aziz, Tariq & Khan, Ayaz Ali & Ghani, Mustajab & Shahzad, Muhammad & Alruways, Mashael & Dablood, Anas & Elazzazy, Ahmed & Almalki, Abdulraheem & ALAMRI, Abdulhakeem & Alhomrani, Majid. (2022). Designing a Novel Peptide-Based Multi-Epitope Vaccine to Evoke a Robust Immune Response against Pathogenic Multidrug-Resistant *Providencia heimbachae*. *Vaccines*. 10. 10.3390/vaccines10081300. (W-IF:9.2)
128. Zaib, Sumera & Hayyat, Aqsa & Ali, Naba & Gul, Asma & **Naveed**, Muhammad & Khan, Imtiaz. (2021). Role of Mitochondrial Membrane Potential and Lactate Dehydrogenase A in Apoptosis. *Anti-cancer Agents in Medicinal Chemistry*. 21. (W-IF:7.3)
129. Rizvi, Azka & Saeed, Muhammad & Nadeem, Ayesha & Yaqoob, Asma & Rabaan, Ali & Bakhrebah, Muhammed & Al Mutair, Abbas & Alhumaid, Saad & Aljeldah, Mohammed & Shammari, Basim & Albayat, Hawra & Alwashmi, Ameen & Nainu, Firzan & Alhashem, Yousef & **Naveed**, Muhammad & Ahmed, **Naveed**. (2022). Evaluation of Bi-Lateral Co-Infections and Antibiotic Resistance Rates among COVID-19 Patients in Lahore, Pakistan. *Medicina*. 58. 904. 10.3390/medicina58070904. (W-IF:6.7)

130. **Naveed**, Muhammad & Ul Hassan, Jawad & Ahmad, Muneeb & Naeem, Nida & Rabaan, Ali & Aljeldah, Mohammed & Shammari, Basim & Alissa, Mohammed & Sabour, Amal & Alaeq, Rana & Alshiekheid, Maha & Turkistani, Safaa & Elmi, Abdirahman & Ahmed, **Naveed**. (2022). Designing mRNA- and Peptide-Based Vaccine Construct against Emerging Multidrug-Resistant *Citrobacter freundii*: A Computational-Based Subtractive Proteomics Approach. *Medicina*. 58. 10.3390/medicina58101356. (W-IF:6.7)
131. Raza, Muhammad & Farwa, Umme & Ain, Nida & Ishaque, Fatima & Yaseen, Muhammad & **Naveed**, Muhammad & Shabbir, Muhammad. (2022). Designing of Thiazolidinones for COVID-19 and its Allied Diseases: An In silico Evaluation. *ChemistrySelect*. 7. 10.1002/slct.202201793. (X-IF:2.1)
132. Amin, Aatif & **Naveed**, Muhammad & Rasheed, Sunbul & Sarwar, Arslan & Latif, Zakia. (2022). Characterization of Mercury Ameliorating Rhizobacteria for Enhancing Growth and Yield of *Triticum Aestivum* L. in Field. An In Vitro and In Silico Study. 10.21203/rs.3.rs-2377528/v1. (X-IF:3.7)
133. **Naveed**, Muhammad & Shabbir, Muhammad & Ul Ain, Noor & Javed, Khushbakht & Mahmood, Sarmad & Aziz, Tariq & Khan, Ayaz Ali & Nabi, Ghulam & Shahzad, Muhammad & Alharbi, Mousa & Alharbi, Metab & Alshammari, Abdulrahman. (2023). Chain-Engineering-Based De Novo Drug Design against MPXVgp169 Virulent Protein of Monkeypox Virus: A Molecular Modification Approach. *Bioengineering*. 10. 11. 10.3390/bioengineering10010011. (W-IF:5.7)
134. Mazhar, Modasrah & Afzal, Muhammad & **Naveed**, Muhammad. (2022). Phytochemical Profiling, Biological Activities and In Silico Virtual Screening of Bioactive Compounds of *Trichodesma Indicum* (L) R. Br. Extracts. *ChemistrySelect*. 7. 10.1002/slct.202203821. (X-IF:2.1)
135. Nichols, Emma & Steinmetz, Jaimie & Vollset, Stein & Fukutaki, Kai & Chalek, Julian & Abd-Allah, Foad & Abdoli, Amir & Abualhasan, Ahmed & Abu-Gharbieh, Eman & Akram, Tayyaba & Hamad, Hanadi & Alahdab, Fares & Alanezi, Fahad & Alipour, **Naveed**, Muhammad, Vahid & Almustanyir, Sami & Amu, Hubert & Ansari, Iman & Arabloo, Jalal & Ashraf, Tahira & Vos, Theo. (2022). Estimation of the global prevalence of dementia in 2019 and forecasted prevalence in 2050: an analysis for the Global Burden of Disease Study 2019. *The Lancet Public Health*. 7. (W-IF:168.9)
136. Ikuta, Kevin & Swetschinski, Lucien & Aguilar, Gisela & Sharara, Fablina & Mestrovic, Tomislav & Gray, Authia & Weaver, Nicole & Wool, Eve & Han, Chieh & Hayoon, Anna & Aali, Amirali & Mekonen, Semagn & Abbasi-Kangevari, Mohsen & Abbasi-Kangevari, Zeinab & Abd-elsalam, Sherief & Kelbore, Abraham & Abedi, Aidin & Abhari, Amir & Abidi, Hassan, **Naveed**, Muhammad & Naghavi, Mohsen. (2023). Global mortality associated with 33 bacterial pathogens in 2019: a systematic analysis for the Global Burden of Disease Study 2019. *The Lancet*. 10.1016/S0140-6736(22)02185-7. (W-IF:168.9)
137. Haeuser, Emily & Serfes, Audrey & Cork, Michael & Yang, Mingyou & Abbastabar, Hedayat & Abhilash, E. & Adabi, Maryam & Adebayo, Oladimeji & Adekanmbi, Victor & Adeyinka, Daniel & Afzal, Saira & Ahinkorah, Bright & Ahmadi, Keivan & Ahmed Phd, Muktar & Akalu, Yonas & Akinyemi, Rufus & Akunna, Chisom & Alahdab, Fares & Alanezi, Fahad & **Naveed**, Muhammad, Dwyer-Lindgren, Laura. (2022). Mapping age- and sex-specific HIV prevalence in adults in sub-Saharan Africa, 2000–2018. *BMC Medicine*. 20. 10.1186/s12916-022-02639-z. (W-IF:9.3)
138. **Naveed**, Muhammad & Makhdoom, Syeda & Abbas, Ghulam & Safdari, Mohammadreza & Farhadi, Amin & Habtemariam, Solomon & Shabbir, Muhammad & Jabeen, Khizra & Asif, Muhammad Farrukh & Tehreem, Sana. (2022). The Virulent Hypothetical Proteins: The Potential Drug Target Involved in Bacterial Pathogenesis. *Mini-Reviews in Medicinal Chemistry*. 22. 10.2174/1389557522666220413102107. (W-IF:3.8)
139. Nichols, Emma & Abd-Allah, Foad & Abdoli, Amir & Abualhasan, Ahmed & Abu-Gharbieh, Eman & Afshin, Ashkan & Akinyemi, Rufus & Alanezi, Fahad & Alipour, **Naveed**, Muhammad, Vahid & Almasi-Hashiani, Amir & Arabloo, Jalal & Ashraf-ganjouei, Amir & Ayano, Getinet & Ayuso-Mateos, Jose & Baig, Atif & Banach, Maciej & Barboza, Miguel & Barker, Suzanne & Baune, Bernhard & Vos, Theo. (2021). Use of multidimensional item response theory methods for dementia prevalence prediction: an example using the Health and Retirement Survey and the Aging, Demographics, and Memory Study. *BMC Medical Informatics and Decision Making*. (W-IF:9.3)
140. Kisa, Adnan & Collaborators, GBD & Kisa, Sezer & Fischer, Florian & Bhagavathula, Akshaya & Renzaho, Andre, **Naveed**, Muhammad. (2021). Public health utility of cause of death data: applying empirical algorithms to improve data quality. *BMC Medical Informatics and Decision Making*. 21. (W-IF:9.3)

141. **Naveed**, Muhammad & Tehreem, Sana & Arshad, Sundas & Bukhari, Syeda & Shabbir, Muhammad & Essa, Ramsha & Ali, Nouman & Zaib, Sumera & Khan, Ajmal & Al-Harrasi, Ahmed & Khan, Imtiaz. (2021). Design of a novel multiple epitope-based vaccine: An immunoinformatics approach to combat SARS-CoV-2 strains. *Journal of Infection and Public Health*. 10.1016/j.jiph.2021.04.010. **(W-IF:6.7)**
142. **Naveed**, Muhammad & Nadeem, Fareeha & Mehmood, Tahir & Bilal, Muhammad & Anwar, Zahid & Amjad, Fazeeha. (2021). Protease—A Versatile and Ecofriendly Biocatalyst with Multi-Industrial Applications: An Updated Review. *Catalysis Letters*. 151. 10.1007/s10562-020-03316-7. **(Y-IF:2.8)**
143. Aqeel, Muhammad & **Naveed**, Muhammad, Oancea, Bogdan. (2021). Mapping subnational HIV mortality in six Latin American countries with incomplete vital registration systems. *BMC Medicine*. 19. 4. 10.1186/s12916-020-01876-4. **(W-IF:9.3)**
144. **Naveed**, Muhammad & Bukhari, Bakhtawar & Afzal, Nadia & Sadia, Haleema & Meer, Bisma & Riaz, Tanzeela & Ali, Urooj & Ahmed, **Naveed**. (2021). Geographical, Molecular, and Computational Analysis of Migraine-Causing Genes. *Journal of Computational Biophysics and Chemistry*. 20. 391-403. 10.1142/S2737416521500204. **(Y-IF:2.8)**
145. Zahra, Amreen & Saleem, Mushtaq & Javed, Hasnain & Azmat, Muhammad & Khan, Ullah & **Naveed**, Muhammad & Shakoori, Abdul. (2020). Single Nucleotide Polymorphism Induces a Positive Selection Pressure at Gag-Pol Sites in Human Immunodeficiency Virus Favoring Drug Resistance Mutations. *Pakistan journal of zoology*. 53. 10.17582/journal.pjz/20200525130507. **(Y-IF:1.0)**
146. Steinmetz, Jaimie & Bourne, Rupert & Briant, Paul & Flaxman, Seth & Taylor, Hugh & Jonas, Jost & Abdoli, Amir & Aberhe, Woldu Sofia & Arabloo, Jalal & **Naveed**, Muhammad, Vos, Theo. (2021). Causes of blindness and vision impairment in 2020 and trends over 30 years, and prevalence of avoidable blindness in relation to VISION 2020: the Right to Sight: an analysis for the Global Burden of Disease Study. *The Lancet Global Health*. 9. 144-160. 10.1016/S2214-109X(20)30489-7. **(W-IF:168.9)**
147. **Naveed**, Muhammad & Nadeem, Fareeha & Mehmood, Tahir & Bilal, Muhammad & Anwar, Zahid & Amjad, Fazeeha. (2021). Protease—A Versatile and Ecofriendly Biocatalyst with Multi-Industrial Applications: An Updated Review. *Catalysis Letters*. 151. 10.1007/s10562-020-03316-7. **(Y-IF:2.8)**
148. Kendrick, Parkes & Reitsma, Marissa & Abbasi-Kangevari, Mohsen & Banach, Maciej & Gakidou, Emmanuela & Amin, Tarek & Bhagavathula, Akshaya & Itumalla, Ramaiah & Inbaraj, Leebek & Abedi, Aidin & Butt, Zahid & Akila, Prashant & Mohammed, Shafiu & **Naveed**, Muhammad, Miller, Ted. (2021). Spatial, temporal, and demographic patterns in prevalence of chewing tobacco use in 204 countries and territories, 1990-2019: a systematic analysis from the Global Burden of Disease Study 2019.. *The Lancet Public Health*. **(W-IF:168.9)**
149. Sartorius, Benn & VanderHeide, John & Yang, Mingyou & Goosmann, Erik & Hon, Julia & Haeuser, Emily & Cork, Michael & Perkins, Samantha & Jahagirdar, Deepa & Schaeffer, Lauren & Serfes, Audrey & LeGrand, Kate & Abbastabar, Hedayat & Hailemariam, Zeleke & Eshete, Akine & Abu-Gharbieh, Eman & Accrombessi, Manfred & Adebayo, Oladimeji & Adegbosin, Adeyinka & **Naveed**, Muhammad, Dwyer-Lindgren, Laura. (2021). Subnational mapping of HIV incidence and mortality among individuals aged 15–49 years in sub-Saharan Africa, 2000–18: a modelling study. *The Lancet HIV*. 8. e363-e375. 10.1016/S2352-3018(21)00051-5. **(W-IF:168.9)**
150. Galles, NC & Liu, PY & Updike, RL & Fullman, Nancy & Nguyen, J & Rolfe, S & Sbarra, AN & Schipp, MF & Marks, Ashley & Gebreheat, Gdiom & Abbas, KM & Abbasi, Sumra & Abbastabar, Hedayat & Abd-Allah, Foad & Abdoli, A & Abolhassani, Hassan & Eshete, Akine & Adabi, M & Adamu, Abdu & Mosser, JF. **Naveed**, Muhammad (2021). Measuring routine childhood vaccination coverage in 204 countries and territories, 1980–2019: a systematic analysis for the Global Burden of Disease Study 2020, Release 1. 398. **(W-IF:168.9)**
151. Paulson, Katherine & Kamath, Aruna & Alam, Tahiya & Bienhoff, Kelly & Gebreheat, Gdiom & Abbas, Jaffar & Abbasi-Kangevari, Mohsen & Abbastabar, , Sherief & Abdoli, Amir & Abedi, Aidin & Abolhassani, Hassan & Guimarães Abreu, Lucas & Abu-Gharbieh, Eman & Abu-Rmeileh, Niveen & I. Abushouk, Abdelrahman & Adamu, Aishatu & Adebayo, Oladimeji & **Naveed**, Muhammad Kassebaum, Nicholas. (2021). Global, regional, and national progress towards Sustainable Development Goal 3.2 for neonatal and child health: all-cause and cause-specific mortality findings from the Global Burden of Disease Study 2019 **(W-IF:168.9)**
152. **Naveed**, Muhammad & Mumtaz, Abdul & Saleem, Mushtaq. (2021). Role of Pyrroloquinoline Quinone in Biocontrol Together with Induced Systemic Resistance: A Novel Resource Tried for Rice Disease Control. *International Journal of Agriculture and Biology*. 20–0457/202x/00–0–000–000. 10.17957/IJAB/15.1631. **(Y-IF:3.0)**
153. **Naveed**, Muhammad & Sohail, Younas &, Abdul. (2015). Evaluation of Glucose Dehydrogenase and Pyrroloquinoline Quinine (pqq) Mutagenesis that Renders Functional Inadequacies in Host Plants. *Journal of Microbiology and Biotechnology*. 25. 1349-1360. 10.4014/jmb.1501.01075. **(X-IF:2.5)**

154. Micah, Angela & Cogswell, Ian & Cunningham, Brandon & Ezoe, Satoshi & Harle, Anton & Maddison, Emilie & Mccracken, Darrah & Nomura, Shuhei & Simpson, Kyle & Stutzman, Hayley & Tsakalos, Golsum & Wallace, Lindsey & Zhao, Yingxi & Zende, Rahul & Cristiana, Abbafati & Abdelmasseh, Michael & Abedi, Aidin & Abegaz, Kadir Hussein & Abhilash, E. & Dieleman, Joseph. **Naveed**, Muhammad (2021). Tracking development assistance for health and for COVID-19: a review of development assistance, government, out-of-pocket, and other private spending on health for 204 countries and territories, 1990–2050. (W-IF:168.9)
155. Jahagirdar, Deepa & Walters, Magdalene & Novotney, Amanda & Brewer, Edmond & Frank, Tahvi & Carter, Austin & Biehl, Molly & Abbastabar, Hedayat & Abhilash, E. & Abu-Gharbieh, Eman & Abu-Raddad, Laith & Adekanmbi, Victor & Adeyinka, Daniel & Adnani, Qorinah Estiningtyas Sakilah & Afzal, Saira & Aghababaei, Soodabeh & Ahinkorah, Bright & Ahmad, Sajjad & Ahmadi, Ali & **Naveed**, Muhammad, Kyu, Hmwe. (2021). Global, regional, and national sex-specific burden and control of the HIV epidemic, 1990–2019, for 204 countries and territories: the Global Burden of Diseases Study 2019. The Lancet HIV. 8. 10.1016/S2352-3018(21)00152-1. (W-IF:168.9)
156. Abdoli, Amir & Reinig, Nickolas & Velazquez, Diana Z. & Vos, Theo & Nichols, Emma & Collaborators, GBD & Rana, Juwel & Diaz, Daniel & Eshete, Akine & Aberhe, Woldu & Ahmedabualhasan, & Alahdab, Fares & Alanezi, Fahad & Arabloo, Jalal & Ayano, Getinet & Banach, Maciej & Barboza, Miguel & Birhan, Tsegaye & Bolor, Archith & Wang, Yuan, **Naveed**, Muhammad. (2021). Global mortality from dementia: Application of a new method and results from the Global Burden of Disease Study 2019. Alzheimer's & Dementia: Translational Research & Clinical Interventions. 7. 10.1002/trc2.12200. (W-IF:20.0)
157. Awais, Muhammad & **Naveed**, Muhammad & Mansoor, Sajid & Li, Jiaxin & Riaz, Rabia. (2021). COVID-19: Immune Perspective and Current Treatment Strategies. BioScientific Review. 3. 10.32350/BSR.0304.06. (Y-IF:2.0)
158. Zaib, Sumera & Aimen, Hadiqa & Virk, Urooj & Ibrar, Aliya & Gul, Asma & **Naveed**, Muhammad & Khan, Imtiaz. (2021). Structure-Based Virtual Screening of Human β -Glucuronidase Inhibitors. (Y-IF:2.0)
159. Fatima, Yasra & Shabbir, Muhammad & Ul Ain, Noor & Makhdoom, Syeda & Rehman, Hamza & Waseem, Muhammad & Jabeen, Khizra & Laila, Sayeda & shahid, Amna & **Naveed**, Muhammad. (2021). Pharmacophore Based Drug Designing of COL7A1; The Causative Gene of Dystrophic Epidermolysis Bullosa. 3. 10.32350/BSR.0302.02. (Y-IF:2.0)
160. Bukhari, Bakhtawar & **Naveed**, Muhammad & Ahmed, **Naveed** & Makhdoom, Syeda & Jabeen, Khizra & Asif, Muhammad Farrukh & Batool, Hira & Yean, Chan. (2021). A Comparison Between Organic and Inorganic Nanoparticles: Prime Nanoparticles for Tumor Curation. Nano. 16. 10.1142/S1793292021300115. (Y-IF:2.2)
161. Awais, Muhammad & **Naveed**, Muhammad & Mansoor, Sajid & Li, Jiaxin & Riaz, Rabia. (2021). COVID-19: Immune Perspective and Current Treatment Strategies. BioScientific Review. 3. 10.32350/BSR.0304.06. (Y-IF:2.0)
162. Ahmed, **Naveed** & Zeshan, Basit & Afzal, Muhammad & **Naveed**, Muhammad & Wahab, Abdul. (2020). Molecular Survey of Campylobacter jejuni in Broiler Chicken Farms in East Coast of Peninsular, Malaysia. Pakistan journal of zoology. 53. 1-4. 10.17582/journal.pjz/20180702090700. (Y-IF:1.0)
163. Afzal, Muhammad & Khan, Aisha & Qureshi, Ubaid & Saleem, Sadia & Nadeem, Muhammad & Shabbir, Rana Muhammad Kamran & **Naveed**, Muhammad & Jabbar, Muhammad & Zahoor, Sarmad & Ahmed, Haroon. (2021). Community-Based Assessment of Knowledge, Attitude, Practices and Risk Factors Regarding COVID-19 Among Pakistanis Residents During a Recent Outbreak: A Cross-Sectional Survey. Journal of Community Health. 10.1007/s10900-020-00875-z. (Y-IF:1.0)
164. Amin, Arshia & Zahra, Tehseen & Raja, Hafsa & Amin, Mehroze & Dilshad, Erum & **Naveed**, Muhammad & Ahmed, Iftikhar. (2019). CHAPTER 5: Major natural sinks for harboring microorganisms with altered antibiotic resistance versus major human contributing sources of antibiotic resistance: a detailed insight. 10.1016/B978-0-12-818882-8.00005-X. (W-IF:5.0)
165. **Naveed**, M. Meer, Bisma. (2019). Chapter 19 - Antibiotics resistance mechanism (W-IF:4.0)
166. Arshad, Sundas & **Naveed**, Muhammad & Ullia, Mahad & Javed, Khadija & Butt, Ayesha & Khawar, Masooma & Amjad, Fazeeha. (2020). Targeting STAT-3 signaling pathway in cancer for development of novel drugs: Advancements and challenges. Genetics and Molecular Biology. 43. 10.1590/1678-4685-gmb-2018-0160. (Y-IF:2.1)
167. Nadeem, Fareeha & Mehmood, Tahir & **Naveed**, Muhammad & Shamas, Shazia & Saman, Tasmia & Anwar, Zahid. (2020). Protease Production from Cheotomium globusum Through Central Composite Design Using Agricultural Wastes and Its Immobilization for Industrial Exploitation. Waste and Biomass Valorization. 11. 10.1007/s12649-019-00890-9.

168. **Naveed**, Muhammad & Mubeen, Shamsa & Khan, Abeer & Ibrahim, Sehrish & Meer, Bisma. (2019). Plasma Biomarkers: Potent Screeners of Alzheimer's Disease. American Journal of Alzheimer s Disease and Other Dementias. 34. 153331751984823. 10.1177/1533317519848239. (Y-IF:2.7)
169. **Naveed**, Muhammad & Tehreem, Sana & Mehboob, Muhammad. (2019). In-Silico analysis of missense SNPs in Human HPPD gene associated with Tyrosinemia type III and Hawkinsinuria. Computational Biology and Chemistry. 80. 10.1016/j.compbiolchem.2019.04.007. (X-IF:3.1)
170. **Naveed**, Muhammad & Amin, Mariyam & Asif, Shahneela & Iqbal, Ayesha & Amjad, Fazeeha & Sadia, Haleema & Saleem, Mushtaq. (2019). Emergence of in-silico biology in desperate spheres of life sciences in Pakistan. Pure and Applied Biology. 8. 10.19045/bspab.2019.80004. (X-IF:3.1)
171. **Naveed**, Muhammad & Mehboob, Muhammad & Hussain, Aadil & Ikram, Khadija & Tallat, Attha & Zeeshan, nadia. (2019). Structural and Functional Annotation of Virulent Hypothetical Proteins in Chlamydia trachomatis: An In-Silico Approach. Current Bioinformatics. 13. 344 - 352. 10.2174/1574893613666181107111259. (W-IF:4.0)
172. **Ahmed, Naveed** & Zeshan, Basit & **Naveed**, Muhammad & Afzal, Muhammad. (2019). Antibiotic resistance profile in relation to virulence genes fimH, hlyA and usp of uropathogenic E. coli isolates in Lahore, Pakistan. Tropical biomedicine. 36. 559-568. (Y-IF:1.0)
173. **Ahmad, Aqeel** & **Naveed**, Muhammad. (2019). In-Silico Analysis of Grapevine Germin like Protein (VvGLP3) and its Probable Role in Defense against Powdery Mildew Disease. 01. 17-23 (Y-IF:1.5)
174. **Naveed**, Muhammad & Tallat, Attha & Butt, Ayesha & Khalid, Maria & Shehzadi, Mariam & Bashir, Nida & Kafait, Komal & Tufail, Shafia & Nouroz, Faisal. (2019). Neuroproteomics in Paving the Pathway for Drug Abuse Research. Current Proteomics. 16. 256-266. 10.2174/1570164616666181127144621. (Y-IF:1.0)
175. **Zahra, Amreen** & **Naveed**, Muhammad & Ahmad, Irfan & Saleem, Mushtaq & Zeshan, Basit. (2019). The syringes catastrophe of the HIV outbreak in Faisalabad, Punjab, Pakistan. Future Virology. 14. 10.2217/fvl-2019-0084. (X-IF:3.1)
176. **Naveed**, Muhammad & Imran, Komal & Mushtaq, Ayesha & Mumtaz, Abdul & Janjua, Hussnain & Khalid, Nauman. (2018). In silico functional and tumor suppressor role of hypothetical protein PCNXL2 with regulation of the Notch signaling pathway. RSC Advances. 8. 21414-21430. 10.1039/C8RA00589C. (X-IF:3.9)
177. **Naveed**, Muhammad & Ali, Zeshan & Khwar, Masooma & Khalid, Nauman. (2019). Naegleria fowleri: Swimming with Death as the Major Outbreak in Pakistan. Iranian journal of public health. 48. 1741-1742. 10.18502/ijph.v48i9.3037. (Y-IF:1.3)
178. **Naveed**, Muhammad & Raees, Mohammad & Liaqat, Irfan & Kashif, Mohammad. (2018). Clastogenic ROS and biophotonics in precancerous diagnosis. Frontiers in Biology. 13. 10.1007/s11515-018-1488-0.
179. **Naveed**, Muhammad & Imran, Komal & Mushtaq, Ayesha. (2018). Computational and Pathway Analysis of nsSNPs of MED23 Gene Involved in Human Congenital Diseases. Current Biotechnology. 7. 132 - 147. 10.2174/2211550107666180119154308. (Y-IF:2.2)
180. **Naveed**, Muhammad & Nouroz, Faisal & Noreen, Shumaila & Ahmad, Kafeel & Heslop-Harrison, Pat. (2018). Identification and insertion polymorphisms of short interspersed nuclear elements (SINEs) in Brassica genomes. Pakistan Journal of Botany. 50. 749-756. (Y-IF:1.3)
181. **Naveed**, Muhammad & Kazmi, Khushbakht & Amin, Mariyam & Asif, Zainab & Islam, Ushna & Shahid, Kinza & Tehreem, Sana. (2018). Comprehensive review on the molecular genetics of autosomal recessive primary microcephaly (MCPH). Genetics Research. 100. 10.1017/S0016672318000046. (Y-IF:1.5)
182. **Zubair, Muhammad** & Ashraf, Naeem & Aziz, Ubair & Hussain, Aadil & Bilal, Muhammad & Ashraf, Fozia & Tallat, Attha & Butt, Iqra & Mahmood, Malik Siddique & Basheer, Saleem & Kakar, Mohibullah & Ikram, Khadija & Zeeshan, nadia & Afroz, Amber & Zafar, Mudassar & **Naveed**, Muhammad. (2016). In Silico Prediction and Effect of Non-Synonymous SNPs in CREB1 Protein. 10.13140/RG.2.1.4892.0725. (X-IF:3.1)
183. **Mishra, Amaresh** & Qais, Faizan & Pathak, Yamini & Camps, **Naveed**, Muhammad, Ihosvany & Tripathi, Vishwas. (2022). Triamcinolone as a Potential Inhibitor of SARS-CoV-2 Main Protease and Cytokine Storm: An In-silico Study. Letters in Drug Design & Discovery. 19. 10.2174/1570180819666220401142351. (Y-IF:1.0)
184. **Naveed**, Muhammad & Raees, Mohammad & Liaqat, Irfan & Kashif, Mohammad. (2018). Clastogenic ROS and biophotonics in precancerous diagnosis. Frontiers in Biology. 13. 10.1007/s11515-018-1488-0. (X-IF:4.6)
185. **Aziz, Tariq** & **Naveed**, Muhammad & Shabbir, Muhammad & Sarwar, Abid & Yang, Zhennai. (2023). Molecular docking and density functional theory (DFT) studies on the conversion of linoleic acid into fatty acid metabolites by Lactiplantibacillus plantarum 12-3. Food Science of Animal Products. 1. 10.26599/FSAP.2023.9240024. (W-IF:4.5)

186. **Naveed**, Muhammad & Ul Ain, Noor & Shabbir, Muhammad. (2022). Computational Drug Shifting Towards Drug-Drug Conjugates and Monoclonal Antibody Conjugates in the Contradictory Excursion of Asthma. Letters in Drug Design & Discovery. 19. 10.2174/1570180819666220422114450. **(Y-IF:1.0)**
187. **Naveed**, Muhammad & Tabassum, Natasha & Aziz, Tariq & Shabbir, Muhammad & Alkhateeb, Mariam & Alghamdi, Saad & Babalghith, Ahmad & Alsaiani, Ahmad & Alshareef, Sahar & Barqawi, Aminah. (2024). CRISPR-Cas9 guided RNA-based model for the silencing of spinal bulbar muscular atrophy: A functional genetic disorder. Cellular and molecular biology (Noisy-le-Grand, France). **(W-IF:4.4)**
188. **Naveed**, Muhammad & Tehreem, Sana & Arshad, Sundas & Bukhari, Syeda & Shabbir, Muhammad & Essa, Ramsha & Ali, Nouman & Zaib, Sumera & Khan, Ajmal & Al-Harrasi, Ahmed & Khan, Imtiaz. (2021). Design of a novel multiple epitope-based vaccine: An immunoinformatics approach to combat SARS-CoV-2 strains. Journal of Infection and Public Health. 10.1016/j.jiph.2021.04.010. **(W-IF:6.7)**
189. **Naveed**, Muhammad & Jabeen, Khizra & Aziz, Tariq & Arif, Muhammad & Alharbi, Metab & Albekairi, Thamer & Alasmari, Abdullah. (2024). Designing an mRNA Vaccine against P. jirovecii Involved in Fatal Pneumonia Infections via Comparative Proteomics and Reverse Vaccinology Approaches. Frontiers in Bioscience-Landmark. 29. 246. 10.31083/j.fbl2907246. **(X-IF:3.1)**
190. **Naveed**, Muhammad & Chaudhry, Zoma & Bukhari, (2017). Dengue death tolls: A nightmare for Khyber Pakhtunkhwa, Pakistan. Journal of Infection and Public Health. 11. 10.1016/j.jiph.2017.12.002. **(W-IF:6.7)**
191. **Naveed**, Muhammad & Zia, Safia & Akhtar, Maryam & Ashraf, Fatima & Afroz, Amber. (2017). Molecular Docking and Pharmacokinetic of Highly Specific Novel Pan-Mtor Inhibitors against Solid Tumors. MOJ Proteomics & Bioinformatics. 5. 00177. 10.15406/mojpb.2017.05.00177. **(W-IF:9.5)**
192. Zeeshan, nadia & **Naveed**, Muhammad & Asif, Daud & Ahsan, (2017). Stem cell technology for the treatment of diabetes. Journal of Cell Science & Therapy. 08. 10.4172/2157-7013.1000263. **(X-IF:2.8)**
193. **Naveed**, Muhammad & Anwar, Fizza & Kazmi, Khushbakht & Tariq, Fadwa & Tehreem, Sana & Abbas, Ghulam & Irshad, Humayun & Anwar, Pervez & Ali, Aitizaz & Mehboob, Muzamil. (2017). In Silico Screening and Pathway Analysis of Disease-Associated nsSNPs of MITF Gene: A study on Melanoma. International Journal of Computer Science and Information Security,. 15. 31-54 **(X-IF:3.1)**
194. **Naveed**, Muhammad & Raees, Mohammad & Kashif,. (2017). The Darkness Brings Light in the Field of Bio-Communication Through Melatonin Production. Advances in Applied Science Research. 8. 50-61. **(X-IF:3.5)**
195. Ali, Aitizaz & **Naveed**, Muhammad & Mehboob, Muzamil & Anjum, Imran. (2017). A Novel Protocol for Interference aware multi-channel MAC Based WASN.
196. **Naveed**, Muhammad & asif, Daud & Rashid, Umer. (2017). DNA Methylation in Cancer Tissues. Journal of Cell Science & Therapy. 8. 1000272. 10.4172/2157-7013. **(X-IF:2.8)**
197. Murtaza, Aiman & Irshad, Muhammad & Asgher, M. & **Naveed**, Muhammad & Anwar, Zahid & Zubair, Muhammad & Ali, Aitizaz. (2017). Computational analysis and applications of pectinolytic enzymes optimized by statistical design using Shizophyllum commune. International Journal of Computer Science and Information Security. 15. **(X-IF:3.1)**
198. Ahmed, Haroon & Naz, Mehmoona & Mustafa, Irfan & Khan, Mobushir Riaz & Asif, Saira & Afzal, Muhammad & Arshad, Muhammad & **Naveed**, Muhammad & Simsek, Sami. (2017). Impact of epidemiological factors on the prevalence, intensity and distribution of ectoparasites in pigeons. Journal of Parasitic Diseases. 41. 10.1007/s12639-017-0936-0. **(Y-IF:1.1)**
199. **Naveed**, Muhammad & Chaudhry, Zoma & Ali, Zeshan & Amjad, Mahnoor & Zulifiqar, Fizza & Nauman, Ali. (2018). Annotation and curation of hypothetical proteins: prioritizing targets for experimental study. Advances in Life Sciences. 5. **(Y-IF:1.1)**
200. **Naveed**, Muhammad & Imran, Komal & Mushtaq, Ayesha & Tehreem, Sana & Khan, Sami. (2017). The novel therapeutic implications of emerging biotechnologies in diagnostics and treatment of prostate cancer. International Journal of Biosciences. 10. 22-42. 10.12692/ijb/10.5.22-42. **(W-IF:6.5)**
201. **Naveed**, Muhammad & Tehreem, Sana & Usman, Muhammad & Chaudhry, Zoma & Abbas, Ghulam. (2017). Structural and functional annotation of hypothetical proteins of human adenovirus: prioritizing the novel drug targets. BMC Research Notes. 10. 706. 10.1186/s13104-017-2992-z. **(X-IF:2.8)**
202. **Naveed**, Muhammad & Tariq, Komal & Sadia, Haleema & Ahmad, Haroon & Mumtaz, Abdul. (2017). The Life History of Pyrroloquinoline Quinone (PQQ): A Versatile Molecule with Novel Impacts on Living Systems. Molecular Biology. 1. 00005. 10.15406/ijmboa.2016.01.00005. **(W-IF:4.7)**
203. **Naveed**, Muhammad & Tehreem, Sana & Mubeen, Shamsa & Nadeem, Fareeha & Zafar, Fatima & Irshad, Muhammad. (2016). In-silico analysis of non-synonymous-SNPs of STEAP2: To provoke the progression of prostate cancer. Open Life Sciences. 11. 402–416. 10.1515/biol-2016-0054. **(Y-IF:1.7)**
204. **Naveed**, Muhammad & Irfan, Muhammad & Anwar, Zahid & Ayub, Hafsa & Amman, Maryam. (2016). HCV Genotypes and Risk factors; Current Scenario in Pakistan. Biological research. 1. 1-5. **(W-IF:5.0)**

205. **Naveed**, Muhammad & Tariq, Komal & Sadia, Haleema & Ahmad, Haroon & Mumtaz, Abdul. (2017). The Life History of Pyrroloquinoline Quinone (PQQ): A Versatile Molecule with Novel Impacts on Living Systems. *Molecular Biology*. 1. 00005. 10.15406/ijmboa.2016.01.00005. **(W-IF:5.0)**
206. **Naveed**, Muhammad & Kazmi, Khushbakht & Anwar, Fizza & Arshad, Fatima & Dar, Tehreem & Zafar, Muddassar. (2016). Computational Analysis and Polymorphism study of Tumor Suppressor Candidate Gene-3 for Non Syndromic Autosomal Recessive Mental Retardation. *Journal of Applied Bioinformatics & Computational Biology*. 5. 10.4172/2329-9533.1000127. **(Y-IF:1.0)**
207. **Naveed**, Muhammad & Mahmood, Malik Siddique & Ashraf, Naeem & Bilal, Muhammad & Ashraf, Fouzia & Hussain, Aadil & Mehboob, Muhammad & Butt, Iqra & Tariq, Komal & Tallat, Attha & Tanveer, Kiran & Aslam, Ayesha & Rashid, Umer. (2016). In Silico Structural and Functional Characterization of a Hypothetical Protein of Vaccinia Virus. *Journal of Biochemistry, Biotechnology and Biomaterials*. 1. 28-35. **(W-IF:5.12)**
208. **Naveed**, Muhammad & Matloob, Muhammad & Aziz, Ubair & Usman, Muhammad & Mehboob, Muhammad & Chaudhry, Zoma & Zeeshan, nadia & Irshad, Muhammad & Munir, Hira. (2017). Structural and Functional Characterization of a Hypothetical protein of Streptococcus Pyrogenes: An In Silico Approach. *Journal of Biochemistry, Biotechnology and Biomaterials*. 1. 54-63. **(W-IF:5.12)**
209. Ali, Usman & **Naveed**, Muhammad & Ullah, Abid & Ali, Khadija & Shah, Sayed & Sh, F. & Mumtaz, Abdul. (2015). L-asparaginase as a critical component to combat Acute Lymphoblastic Leukaemia (ALL): A novel approach to target ALL. *European Journal of Pharmacology*. 771. 10.1016/j.ejphar.2015.12.023. **(W-IF:4.2)**
210. Bostan, Nazish & Naeem, & Afzal, Muhammad & Arshad, Mohammad & Khan, Abid & Haider, Waseem & Asif, Saira & Khan, Mobushir Riaz & SS, Ahmad & Ali, & **Naveed**, Muhammad & Ahmed, Haroon. (2016). Sero-prevalence of Hepatitis B and C Virus from rural areas of northern Punjab (Sargodha District), Pakistan. *Tropical biomedicine*. 33. **(Y-IF:1.0)**
211. Ain, Quratul & **Naveed**, Muhammad & Mumtaz, Abdul & Farman, Muhammad & Ahmed, Iftikhar & Khalid, Nauman. (2015). Phytochemical analysis of Hibiscus caesius using high performance liquid chromatography coupled with mass spectrometry. *Pakistan journal of pharmaceutical sciences*. 28. 1625-1629. **(Y-IF:1.0)**
212. Shakoor, Abdul & Rahman, Amjad & Zaib, Gul & Khan, Uzma & Ihtesham, Yasir & Aziz, Abdul & **Naveed**, Muhammad. (2014). Biological screening of Albizia lebbek L. and Mimosa himalayana Gamble (Mimosaceae). *Journal of medicinal plant research*. Vol. 8. 731-735. 10.5897/JMPR12.428. **(W-IF:5.6)**
213. **Naveed**, Muhammad & Mubeen, Samavia & Khan, Sami & Ahmed, Iftikhar & Khalid, Nauman & Suleria, Hafiz & Bano, Asghari & Mumtaz, Abdul. (2014). Identification and characterization of rhizospheric microbial diversity by 16S ribosomal RNA gene sequencing. **(X-IF:3.5)**
214. **Naveed**, Muhammad & Ahmed, Iftikhar & Khalid, Nauman & Mumtaz, Abdul. (2014). Bioinformatics based structural characterization of glucose dehydrogenase (gdh) gene and growth promoting activity of Leclercia sp. QAU-66. **(X-IF:3.3)**
215. Khan, Sami & Mumtaz, Abdul & Mustafa, Ghulam & **Naveed**, Muhammad & Shinwari, Zabta & Downie, Allan. (2013). The LC-MS/MS profiling of AHLS produced in Sinorhizobium meliloti nodulating Alysicarpus bupleurifolius. *Pakistan Journal of Botany*. 45. 2037 - 2041. **(Y-IF:1.1)**
216. Ali, Usman & **Naveed**, Muhammad & Ullah, Abid & Ali, Khadija & Shah, Sayed & Sh, F. & Mumtaz, Abdul. (2015). L-asparaginase as a critical component to combat Acute Lymphoblastic Leukaemia (ALL): A novel approach to target ALL. *European Journal of Pharmacology*. 771. 10.1016/j.ejphar.2015.12.023. **(W-IF:5.0)**
217. Latif, Sadia & Khan, Samiullah & **Naveed**, Muhammad & Mustafa, Ghulam & Bashir, Tasmia & Mumtaz, Abdul. (2013). The diversity of Rhizobia, Sinorhizobia and novel non-Rhizobial Paenibacillus nodulating wild herbaceous legumes. *Archives of Microbiology*. **(X-IF:3.0)**
218. Khan, Sami & Mumtaz, Abdul & Mustafa, Ghulam & **Naveed**, Muhammad & Shinwari, Zabta & Downie, Allan. (2013). The LC-MS/MS profiling of AHLS produced in Sinorhizobium meliloti nodulating Alysicarpus bupleurifolius. *Pakistan Journal of Botany*. 45. 2037 - 2041. **(Y-IF:1.1)**
219. Mumtaz, Abdul & **Naveed**, Muhammad & Shinwari, Zabta. (2010). Assessment of genetic diversity and germination pattern in selected cotton genotypes of Pakistan,. *Pakistan Journal of Botany*. 42. 3949-3956. **(Y-IF:1.1)**

Category	Quantity
Journal Publications	219
Books	01
Book Chapters (Elsevier)	06
Conference Papers	20
Total Impact Factor	3,967.14
Total Citations	11,550

BOOK AND BOOK CHAPTERS:

1. **Muhammad Naveed*** and Abdul Samad Mumtaz. Molecular Assessment of Cotton against Cotton Leaf curls Virus (CLCuV). Edited by Ecaterina Tomsa; LAP LAMBERT Academic Publishing., ISBN: 978-3-659-45363-2. 2013. (Book)
2. **Muhammad Naveed***, Zoma Chaudhry, Syeda Aniqah Bukhari, Bisma Meer, Hajra Ashraf. Antibiotics Resistance Mechanism, Book Ch.# 19, Antibiotics and Antimicrobial Resistance Genes in the Environment, pages: 432, publisher: Elsevier, (Book Chapter), 2019.
3. Arshia Amin, Tehseen Zahra1, Hafsa Raja, Mehroze Amin, Erum Dilshad, **Muhammad Naveed**, Iftikhar Ahmed*, Major Natural Sinks for Harboring microorganisms with Altered Antibiotic Resistance Vs. Major Human Contributing Sources of Antibiotic Resistance: A Detailed Insight, Book Ch.# 05, Antibiotics and Antimicrobial Resistance Genes in the Environment, pages: 432, publisher: Elsevier, (Book Chapter), 2019.
4. **Muhammad Naveed**, Muhammad Majeed*, Khizra Jabeen, Nimra Hanif, Rida Naveed, Sania Saleem, Nida Khan. Plant disease diagnosis with artificial intelligence (AI), Springer.
5. **Muhammad Naveed**, Nafeesa Zahid, Ibtihaj Fatima, Ayesha Saleem, Muhammad Majeed*, Amina Abid, Khushbakht Javed. Rahmana Wazir, Amina Qasim. Sustainable AI driven applications for plant care and treatment. Springer
6. **Muhammad Naveed**, Zaibun-nisa Memon, Muhammad Abdullah, Syeda Izma Makhdoom, Arooj Azeem, Sarmad Mehmood, Maida Salahuddin, Zeerwah Rajpoot, Muhammad Majeed*. Use cases and future aspects of intelligent techniques in microbe data analysis. Springer.

CONFERENCES, TRAINING WORKSHOPS AND SEMINARS

CONFERENCES:

1. **Invited Speaker** at **5th International Conference on Biological Research and Applied Sciences** at Jinnah University for Women Karachi, 2025
2. **Keynote speaker** at **Artificial Neural Networks and Nanoinformatics** at the Quaid-i-Azam University Pakistan, 2024
3. **Chief Organizer** at **2nd International Conference on Emerging Horizons in Science and Technology (ICEHST 2024)**, at the University of Central Punjab, 2024
4. **Keynote Speaker** at **12th International Conference on Biological and Computational Sciences (C-BICS-2024)** at Capital University of Science and Technology, 2024.
5. **Keynote speaker** on **Bacterial Whole Genome Sequence Annotation at the Symposium on Mult-Omics Data Analysis** at the University of the Punjab.
6. **Keynote Speaker** at **2nd National Conference on Emerging Trends in Food Science and Nutrition (ETFSN-2024)** at the University of Management and Technology, 2024.
7. **Keynote speaker** at the **International Conference on Material Chemistry and Industrial Technologies**, 2024.
8. **Keynote speaker** and to chair an OMICS session at **“National conference on Frontiers in Applied Biological Sciences”** at Lahore Garrison University, 2023
9. **Keynote speaker** and Bioinformatics session chair at **“1st International Conference on Life Sciences”** at University of Management and Technology, 2023
10. **Keynote speaker** on **“AI-driven drug design at International Symposium on Medicinal Plants and Natural Products”** by University of Agriculture, Faisalabad, 2023
11. **Keynote speaker** on **“Material Chemistry-Inspired Drug Design and Network Pharmacology for Alzheimer’s Therapeutics”** at the 2024 International Conference by University of Lahore 24-25 April
12. **Keynote speaker** on **“2nd International and 3rd National Conference on Recent Advances in Drug Discovery and Development”** at University of Lahore, December 2023.
13. **Keynote speaker** on **“3rd International Conference on Emerging Research for Sustainable Economic Development”** at KS global Research Limited, United Kingdom, 2023
14. **Keynote speaker** and session chair on **“5th International Conference on emerging trends in Bioinformatics and Biosciences”** at University of Hazara, 2023
15. **Keynote speaker** and session chair on **“5th International Conference of Computer Science and Allied Technologies”** at Lahore Garrison University, 2023
16. **Keynote speaker** on **“4th International conference on emerging trends in bioinformatics & biosciences”** at Hazara University Mansehra, 2023
17. **Keynote speaker** on 5th International Conference On **“Advances In Biosciences: Bridging The Gap Between Research And Sustainable Development Goals”** at University of Sawat, 2023
18. **Keynote speaker** on **“The International Conference on Climate-Resilient Smart Soil Management”** at International Atomic Energy Agency, 2022

19. **Keynote speaker** on “4th International Conference on Biosciences” at Quaid-E-Azam University 2021
20. **Keynote speaker** on “7th International Conference On Biological And Computational Sciences (C-Bics 2019)” at Capital University of Science and Technology
21. Attended **Second Workshop on Bioinformatics** at Muhammad Ali Jinnah University, Islamabad, 2011.
22. Attended National Conference on **Trends in Biochemistry and Molecular Biology** at Quaid-i-Azam University Islamabad, 2012.
23. Participated in **12th National and 3rd International Conference of Botany** at Quaid-i-Azam University Islamabad, 2012.
22. Attended **International Conference of Biochemistry, Biotechnology and Bioinformatics (ICBB-2016)** at University of Agriculture Faisalabad-Pakistan, 2016.
23. Attended **Pet and Animal care and handling awareness** at University of Gujrat, 2017.
24. **Keynote Speaker** on **First National Conference on Emerging Trends in Bioinformatics and Biosciences** at Hazara University, 2017.
25. **Presenter** on **4th International Conference on Emerging Trends in Bioinformatics and Biosciences (ICETBB-2022)** at Hazara University
26. **Guest Speaker** on **1st UMT International Conference on Life Sciences: Exploring the Frontiers in Biological Research** at University of Management Technology, 2023
27. **Invited Speaker** on **Frontiers in Applied Biological Sciences** at Lahore Garrison University,

TRAINING WORKSHOPS:

28. **Organizer** of **10th Final Year Project Exhibition and Open House Job Interviews**, at University of Central Punjab, 2025
29. **Organizer** of **9th Molecular Models and Bioinformatics Posters Competition: A Gateway to Entrepreneurship**, at University of Central Punjab, 2024.
30. **Lead trainer** of **6th National Training Workshop on Advanced Bioinformatics and Recombinant Biotechnology**, at University of Central Punjab, 2024.
31. **Lead trainer** of “**1st hands-on training workshop organized by Department of Biotechnology**” at University of Biological & Applied Sciences UBAS Lahore 2023
32. **Organizer** of “**8th Molecular Models & Bioinformatics Posters Competition**” at University of Central Punjab, 2023
33. **Lead trainer** of “**Bioinformatics Training Session**” at Lahore University of Biological and Applied Sciences (LMDC) Lahore, 2023
34. **Lead trainer** of “**Citing with precision: Mastering Endnote for Academic Success**” at University of Lahore, 29th December 2023
35. **Lead trainer** of “**Bioinformatics Training-I for Wet Lab Life Scientists**” at University of Lahore, 24th July 2023
36. **Lead trainer** of “**5th National Hands-On Training Workshop on Advanced Bioinformatics & Recombinant Biotechnology**” at University of Central Punjab, 2023.
37. **Organizer** of “**7th Molecular Models & Bioinformatics Posters Competition**” at University of Central Punjab, 2023
38. **Organizer** of “**6th Molecular Models & Bioinformatics Posters Competition**” at University of Central Punjab, 2022

42. **Organizer** of “**5th Molecular Models & Bioinformatics Posters Competition**” at University of Central Punjab, 2022
43. **Organizer** of “**4th Molecular Models & Bioinformatics Posters Competition**” at University of Central Punjab, 2021.
44. Attended **Campus Governance and Innovative Strategies for Quality Improvement in Universities** at the University of Gujrat, 2016.
45. Attended **Faculty Development Training Program** at University of Central Punjab, 2018
46. **Lead trainer** of **National One-Day Hands on Training Workshop Recombinant Biotechnology and Bioinformatics** at University of Central Punjab, 2018.
47. **Lead trainer** of **Three Days Hands-On Training Workshop on Recombinant Biotechnology and Bioinformatics** at University of Central Punjab, 2019

SEMINARS:

48. **Keynote speaker** at **Nanoinformatics- Shaping the Future of Science and Technology** at Jinnah University for Women, Karachi, 2024.
49. **Guest speaker** on **Plant Mediated Nanomedicine and Their Therapeutic Potential through Nanoinformatics** at University of Education, 2024.
50. **Keynote speaker** on a Dynamic Bioinformatics Brainstorming Session at Kohsar University Murree, 2024.
51. **Keynote speaker** on AI-Driven Drug Design at the International Symposium on Medicinal Plants and Natural Products at the University of Agriculture Faisalabad 2024.
52. **Guest speaker** on “**Awareness seminar on Antimicrobial Resistance & Mechanism**” at University of Lahore, 2023
53. **Guest speaker** on “**Awareness Seminar on Antimicrobial Resistance and Mechanism**” at University of Lahore, 19th December 2023
54. **Invited Speaker** on **Youth Leader Summit at Youth in Akbar’s Kiinara Gujrat**, 2015
55. Attended **International Symposium on Food Security, Quality and Safety** at University of Central Punjab, 2018
56. **Keynote speaker** at two-day symposium “**From Data to Discovery Mastering NGS and GWAS**” at Government College University Faisalabad.

CURRICULUM VITAE

Ph.D STUDENTS

Sr No.	Student Name	Title of Research Thesis	Passing Year
1.	Modasrah Mazhar	Identification and Biochemical Profiling of Bioactive Compounds in <i>Trichodesma indicum</i>	2023
2.	Hajra Sohail	Molecular and Genome Wide Analysis of <i>Bacillus</i> sp. for Ecofriendly Synthesis of Cysteine Conjugated Nanoparticles through Artificial Neural Networking for Petrochemicals Biodegradation	2025
3.	Nimra Hanif	Integrated Genomic Profiling of <i>Bacillus licheniformis</i> and Artificial Neural Networking driven Optimization of Peptide Conjugated Bimetallic Nanoparticles Synthesis for Enhanced Metallo Organic Biodegradation	2025
4.	Arooj Arshad	Development of Artificial Neural Networking-Based Nanocomposite Edible Coatings/ Films Using Bioactive Compounds for Improved Fruit Shelf life.	2026
5.	Neelam Farheen	Catalytic Potential of Lysine Functionalized Bimetallic Nanoparticles through Artificial Neural Networking (ANN) for Enhanced Organic Dyes Degradation Efficiency	2026
6.	Maida Salah Ud Din	Whole Genome Sequencing and Machine Learning Approaches for Developing Degradable Nanoplastics from Plant and Bacterial Nanocellulose	2027
7.	Muhammad Waseem	AI-Enhanced Molecular Characterized Bacteria-Derived Enzyme-Mimicking Nanoparticles Integrated into Biodegradable Chitosan Nanosensors for Efficient Detection and Degradation of Microplastics in Aquatic Ecosystems.	2027
8.	Sabiya Azam	Exploring the Genetic Potential through Cloning and Functional Analysis for Novel Biotechnological and Environmental Applications	2027

CURRICULUM VITAE

MPhil STUDENTS:

Sr No.	Name	Tittle of research Thesis	Passing year
1.	Ameer Hamza	Isolation and characterization of Bacteriophage Endolysins and its application as antibacterial Drug against antibiotic resistant Staphylococcus Aureus	2016
2.	Komal Tariq	Structural and functional evaluation of PQQ/GDH double Mutant for induced systemic resistance in plants	2016
3.	Bakhtawar Baig	Structural and functional characterization of genes in selected Bacterial strains associated with plastic degradation	2016
4.	Tayyaba Ghafar	Identification of mutations in multi-drug resistant bacterial strains through computation analysis	2016
5.	Sana Tehreem	Molecular and computational analysis of HIV in the population of Gujrat, Pakistan	2017
6.	Attha Tallat	Molecular and computational analysis of migraine related genes in the Punjabi population of Pakistan	2017
7.	Syeda khushbakht kazmi	Molecular & computational analysis of microcephaly in population of Gujrat, Pakistan	2017
8.	Shamsa Mubeen	Determination of Hepatitis C virus genotypes and its computational analysis of Gujrat, Pakistan	2017
9.	Tehreem Zafar Dar	The computational and molecular screening of Diabetic population in Gujrat, Pakistan	2017
10.	Nida Naeem	Molecular and structural characterization of enzymes responsible for multidrug resistance in bacteria	2018
11.	Kirpa Ram	Metagenomics based screening of bacterial strains from Sialkot hospitals wastes	2018
12.	Zainab Khalid	Molecular and phylogenetic analysis of potential bacterial pathogen in Lahore, Pakistan	2018
13.	Nadia Yaqoob	Execution of metagenomics in depicting the impact of bacterial diseases from hospital wastes of Lahore	2018
14.	Abubakar Ahmed	Computational and phytochemical analysis of Cucurbita maxima extract on xanthine oxidase	2018
15.	Sana Yousaf	Assessment of urine metabolomics in patients of various types of cancers	2018
16.	Amna Azam	Metagenomics based comparative analysis of bacterial community in hospitals of Sheikhpura, Pakistan	2018
17.	Naveed Ahmed	Molecular Survey and Phylogenetic Analysis of uropathogenic Escherichia coli Isolates for <i>fimh</i> , <i>hly</i> and <i>usp</i> genes	2018
18.	Hira Saleem	The molecular and computational analysis of migraine population in Lahore, Pakistan	2019
19.	Tasleem Younas	Molecular and Computational Elucidation of Bacterial Enzymes Responsible for Inducing Antibiotic Resistance with their Potential Inhibitors	2019

CURRICULUM VITAE

20.	Aqeel Ahmad	In silico and in-vivo Phytochemical analysis of Malus Pumila Cider venigar on Hyperuricemia	2019
21.	Almeera shaukat	In-vivo and in-silico analysis of <i>Citrullus colocynthis</i> against Vitiligo	2020
22.	Adeela Shaukat	Molecular and computational analysis of antimicrobial resistance genes from goat and chicken slaughterhouses Lahore	2020
23.	Asia Khalil	In-Vitro and In-Silico Analysis of Enzyme Based Degradation of Potential Herbicides	2020
24.	Eurica Joyce	Molecular and Computational Analysis of Innate Immunity Genes regulating the Appendicitis Inflammatory Process	2020
25.	Nimra Safdar	Molecular and Computational Analysis of Inflammation Causing Genes Related to Migraine in Faisalabad Population	2020
26.	Bakhtawar Bukhari	Green synthesis of silver nanoparticles using <i>Acer oblongifolium</i> and its antibacterial effect and antiproliferative activity against human cancer cell lines (MCF-7, HELA)	2021
27.	Zainab Hassan	Enzymolysis and molecular foraging of Butachlor by sectionally sequestered microbial entities from paddy rice	2021
28.	Arooj Jamshed	Molecular and Mutational Exome Analysis of PCSK9 Gene Causing Hypercholesterolemia leading to Coronary Heart Disease	2021
29.	Hamza Saleem Ur Rehman	Molecular Analysis of Polymorphism in AS3MT Gene causing Type 2 Diabetes and its Association with Arsenic	2021
30.	Muhammad Waseem	Molecular characterization of <i>spa</i> , <i>hld</i> , <i>fmhA</i> , AND <i>lukD</i> genes and computational analysis to overcome the multidrug resistance of <i>Staphylococcus</i> species through <i>Calliandra harrish</i> silver nanoparticles	2022
31.	Nimra Hanif	Molecular and mutational analysis of epilepsy associated genes GABRG2 leading to novel computer-aided drug designing	2022
32.	Muhammad Aqib Shabbir	In-vivo & In-silico biological assessments of hepatoprotective possessions in mice by biosynthesis of iron oxide nanoparticles of <i>Madhuca indica</i>	2022
33.	Nouman Ali	Molecular identification of <i>lukD</i> , <i>fmhA</i> , <i>spa</i> and <i>hid</i> genes of <i>Staphylococcus warneri</i> and drug designing against its using <i>Calliandra Harrish</i> phytochemicals	2022

CURRICULUM VITAE

34.	Fatima Javed	Molecular and computational identification of Atrazine degrading <i>Acinetobacter Baumannii</i> and responsible genes isolated from corn field for Kasur	2022
35.	Umer Ejaz	Ecofriendly synthesis of silver nanoparticles to explore biopotential of <i>Thymus Vulgaris</i> aqueous extract	2022
36.	Ayesha Saleem	The assessment of the biopotential of bioactive compounds derived from <i>Thymus vulgaris</i> by in-vitro and in-silico approach	2022
37.	Hira Batool	characterization and evaluation of antioxidant, antidiabetic, anti-inflammatory and cytotoxicity of silver nanoparticles synthesized using <i>Brachychiton populneus</i> leaves extract	2022
38.	Fatima Tahir	Molecular identification of cadmium resistant bacteria from industrial effluents and computationally improving <i>tcpA</i> and <i>UreC</i> genes causing cholera and UTI through CRISPR-Cas9 system	2022
39.	Nida Khan	Molecular Characterization of Antibiotics Resistance Genes SHV and BLA-OXA Leading to Computational Based Inhibitor Screening Against Beta Lactamases	2022
40.	Arooj Azeem	Eco-biological aspects of green synthesized Ag/FE bimetallic nanoparticles using leaf extract of <i>Vallaris solanaceae</i> and their potential role to vanquish insecticide resistance genes	2023
41.	Huda Ishfaq	GC-MS Analysis of Bacillus Spp. Metabolites Executing In-Vitro Biological Activities and Effect on Epithelial Glioblastoma Cancer Genes Computationally	2023
42.	Muniba Niaz	In-vitro execution of biological activities and computational interpretation on mesothelioma cancer of synthesized zinc oxide nanoparticles using <i>Cascabela Thevetia</i> extract	2023
43.	Sara khan	Biotransformation of flavonoids using bacterial systems and computational assessment of their pharmacological potential	2023
44.	Amina Ashraf	Biogenesis of bimetallic nanoparticles for the degradation of organic pollutants in industrial effluents of Pakistan	2023
45.	Khizra Jabeen	Identification of key genetic mediators linking AD and NAFLD through advanced bioinformatics analysis	2023
46.	Maria Haider	In-vitro characterization of hydroxamic acid derived and computer-aided drug design against hemochromatosis	2023

CURRICULUM VITAE

34.	Fatima Javed	Molecular and computational identification of Atrazine degrading <i>Acinetobacter Baumannii</i> and responsible genes isolated from corn field for Kasur	2022
35.	Umer Ejaz	Ecofriendly synthesis of silver nanoparticles to explore biopotential of <i>Thymus Vulgaris</i> aqueous extract	2022
36.	Ayesha Saleem	The assessment of the biopotential of bioactive compounds derived from <i>Thymus vulgaris</i> by in-vitro and in-silico approach	2022
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38.	Fatima Tahir	Molecular identification of cadmium resistant bacteria from industrial effluents and computationally improving <i>tcpA</i> and <i>UreC</i> genes causing cholera and UTI through CRISPR-Cas9 system	2022
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43.	Sara khan	Biotransformation of flavonoids using bacterial systems and computational assessment of their pharmacological potential	2023
44.	Amina Ashraf	Biogenesis of bimetallic nanoparticles for the degradation of organic pollutants in industrial effluents of Pakistan	2023
45.	Khizra Jabeen	Identification of key genetic mediators linking AD and NAFLD through advanced bioinformatics analysis	2023
46.	Maria Haider	In-vitro characterization of hydroxamic acid derived and computer-aided drug design against hemochromatosis	2023

CURRICULUM VITAE

47.	Amna Saleem	Elucidation of genetic basis of candidate gene causing diabetes mellitus and its implication for potential drug design	2023
48.	Sameera khaleel	Profiling of <i>Bacillus Paramycoides</i> metabolites and interpreting its biopotential against sustainable wheat growth	2023
49.	Sara Khan	Biotransformation of flavonoids using bacterial systems and computational assessment of their pharmacological potential	2023
50.	Hina Zulfiqar	Synthesis and Biological Evaluation of Artemisinin as a Bioactive Compound of <i>Artemisia vulgaris</i> identified through Column Chromatography	2023
51.	Noor Ul Ain	Mix-match synthesis of nanosynbiotics from probiotics to counter dysbiosis in-vivo leading to AI-integrated formulation profiling as a pragmatic swap from pharmaceuticals to nutraceuticals	2023
52.	Mahnoor Wajid	Computational and Haplotype analysis of MLO gene family causing powdery mildew in wheat (<i>Triticum aestivum</i> L.)	2023
53.	Fatima Iqbal	Molecular characterization of microbe for eco-friendly green synthesis of iron oxide nanoparticles for the efficient degradation of textile dyes.	2024
54.	Tayyaba Rafique	Molecular and bioinformatics analysis of CYP1B1 gene exome to identify the variations potentially associated with juvenile glaucoma in Pakistan population	2024
55.	Amina Abid	Biosynthesis and Computational Analysis of Iron Oxide Nanoparticles of <i>Cascabela thevesia</i> as a Therapeutic Potential Against Ventricular Septal Defect	2024
56.	Kashef Choudhary	characterization of probiotic microbiota for targeting pathogenic gut bacteria and AI-assisted drug design to combat gastroenteritis.	2024
57.	Syeda Izma Makhdoom	Enhancing the Effectiveness of Self Assembled Enzyme-Based Nanobots for Microplastic Degradation in Industrial Effluents with Artificial Neural Networking	2024
58.	Maida Salah Ud Din	Synthesis of cysteine conjugated bimetallic nanoparticles for diesel degradation present in waste material of petroleum industry through artificial neural networking (ANN)	2024
59.	Khushbakht Javed	Synthesis of probiotic encapsulated hydrogel against inflammatory bowel syndrome	2024
60.	Rehmana Wazir	Molecular characterization of antibiotic resistance genes in <i>Clostridium perfringens</i> and synthesis of ecofriendly nanoparticles for synergistic foodborne disease therapy	2024
61.	Muhammad Asim	Green Synthesis of Cysteine-Conjugated Silver Nanoparticles from <i>Melaleuca lanceolata</i> Extract for Combating Cystitis using Artificial Intelligence based drug design.	2024
62.	Mehaz Ayyaz	Computational and Biological Assessments of Polychlorinated Biphenyls (PCBs) Degradation Using Green-Synthesized bimetallic Nanoparticles from <i>Schefflera actinophylla</i>	2024

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63.	Minahil Zahid	Biosynthesis of bacterial mediated nanoparticles and immobilization in the nanobiofilter membrane targeting the degradation of textile waste water contaminants.	2025
64.	Mahnoor Tariq	Molecular Identification and Artificial Neural Networking (ANN) Optimization for enhanced Heavy Metal Degradation using Greenly Synthesized Hybrid Nanoparticles	2025
65.	Aroosa Athar	Integrative Molecular and Computational Analysis for Mitigating Drug Resistance and Virulence in Antimicrobial-Resistant <i>Pseudomonas aeruginosa</i>	2025