

Dr. Aneela Javed, Ph.D.



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Department of Biomedicine, ASAB, NUST,
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CV Statement

Accomplished, skilled, and highly motivated scientist with a Ph.D. in Molecular Biology/ immunology and over 10 years of diverse research expertise with basic and advanced scientific techniques. Strong background in teaching and supervisory role for PhD and MS students, research assistants and junior faculty members. Professional experience in complex research projects management, extensive scientific writing, publishing, and presenting research outcomes at various international forums. Soft skill trainings from renowned institutes for leadership roles. Eager to join and contribute to an organization where the stated experience can be implemented to achieve excellence.

Positions Held

AUG 2019 – PRESENT **Associate Professor**

ASAB, NUST, Islamabad, Pakistan

- Secured National and International research grants in the field of Molecular Immunology and Diagnostics,
- Supervised and trained a team of 15 research students, assistants, interns for scientific research,
- Successful supervision and completion of PhD and MS projects,
- Extensive scientific publications,
- Headed the department of Research, working in a team of 40 faculty members and liaison between university research directorate for enhancing and facilitating the research culture for industrial projects,
- Presenting the research outcomes at various conferences and seminars as invited speaker,
- Committee member for various university level research committees such as IRB, Biosafety, research vision 2025 etc

MAR 2013 -
AUG 2019

Assistant Professor

ASAB, NUST, Islamabad, Pakistan

- Taught and extensively updated immunology courses and modules.
- Won and successfully completed research grants related to molecular Biology and therapeutics.
- Successful supervision and completion of PhD and MS projects
- Extensive scientific publications

JAN 2018 -
JAN 2019

Fulbright Research Scholar

Department of Infection Diseases, Harvard Medical School

- Successfully executed and published the drug resistance testing against HIV in Pakistani as well as South African populations.
- Expertise with scientific tools and instruments for data collection
- Extensive exposure to scientific culture and ethics in practice

OCT 2016 -
FEB 2017

Visiting Assistant Professor

Department of Infection Diseases, DUKE-NUS Medical School, National University of Singapore

- Extensive hands-on expertise on cloning protein expression and purification techniques for Luminex based multiplex assays.
- Project presentations at international conferences and seminars

JAN 2007 -
MAR 2008

Research Associate

Department of Biochemistry & Molecular Biology, Quaid-e-Azam University, Islamabad, Pakistan

- Extensive Molecular Biology techniques for human gene mutation analysis for hereditary diseases using animal models

Scholarships & Awards

2023	Nomination for 10-Member group of the UN Technology Facilitation Mechanism (TFM)
2022	Member of American Society of Microbiology
2022	DAAD scholarship for the Research Stays for University Academics and Scientists
2021	Focal person for ministry of foreign affair for HEC-MPI collaboration with Max Plank institute Germany
2020	Nominated for National Civil Awards (The highest civil award of the country)

2020	Member expert committee Higher education commission for “Prioritizing Research relevant to Health and Health-related Sustainable Development Goals under the auspices of Higher Education Commission”
2020	Best Researcher of the year 2019-2020
2020	International Student One Health Alliance (ISOHA) Continent Representatives for Asia
2017	Sir J. William Fulbright research scholar Fellowship. United States Department of State Bureau of Educational and Cultural Affairs
2017	Research Productivity Award 2017 by Pakistan council of science and Technology
2016	Best Researcher of the year 2015-2016
2016	One-Health Fellowship Award by U.S. National Academy of Sciences
2008	Recipient of “Scholarship award for Doctoral studies in Germany from Higher education commission of Pakistan (HEC)
2002	Roll of Honor in B.Sc. from University of the Punjab Pakistan

Research Interests

As head of “Immuno-theranostic” group, the research interests focus on two major aspects namely viral immunology and cancer immunology as well as intersections of both, all culminating in translational research. The group investigates the host-virus interactions and immunological responses against human viruses such as HIV, HCV and HBV both in vitro and in vivo (clinical samples). Based on these interactions, therapeutic strategies are also being under investigation, and few are currently being tested. Recently, the group has started working on research and Diagnostic of emerging zoonotic infections such as CCHFV in Pakistan under the umbrella of One-Health. In cancer immunology, the group is investigating the immune correlates, drug discovery and Nano particle based combinatorial therapies for Glioblastoma Multiform (GBM). These therapies are currently being tested in cell lines and Orthotropic Xenograft mouse model.

Special Expertise

- Microarray analysis
- Drug discovery
- Immunotherapeutic
- Diagnostics
- Flow cytometry analysis
- Cell culture
- Real time quantification
- MACS
- Proteomics
- Bioinformatics

Research Grants Approved

As PI and Co-Investigator

1. My health, My decision: Step Ahead towards Women's Empowerment in Pakistan (K2A grant).
2. Quantifying the transmission routes of gastroenteritis in Pakistan and developing targeted interventions" (FCRF-UK).
3. Deciphering the functional role of FAM26F; a novel therapeutic target for cancer and infections (NRPU 2022).
4. Development of real time diagnostic kits for SARS-CoV2/ COVID-19 (NUST).
5. Molecular Characterization of miRNAs involved in anti-HIV activity for its therapeutic implication in vaccine development (HEC-NRPU).
6. Deficiency of Artemis protein leads to increase in mutation load of TK6 cells due to p53 activation.
7. Analyzing the natural anti-HIV mechanisms for their therapeutic implications in vaccine development (NRPU).
8. Molecular Surveillance and Risk Factor Evaluation of Crimean Congo Hemorrhagic fever (CCHF) in Pakistan.
9. Antiretroviral drug resistance testing of HIV infected Pakistani patients: Step ahead towards affordable personalized medicine. (NRPU-HEC) (Did not avail due to two simultaneously running NRPU grants).

As Co-PI

1. Development of Recombinant Subunit Tetravalent Vaccine against Dengue virus.
2. Expression pattern analysis of 49 human ABC-Transporter proteins and their inhibition in patient derived brain tumors cell lines via ABC-specific inhibitors, cancer chemotherapeutics and siRNA to develop novel treatment strategies.
3. Association of Onco-Viruses with brain cancer: Viral detection and in-vitro growth inhibition of patients-derived brain cancer cell cultures using viral vaccines.
4. Prevalence of antibacterial resistance (ABR) in Environmental Samples.
5. Evaluation of therapeutic potential of a natural HDAC inhibitor sulforaphane against HPV infected carcinomas.
6. Development of new multi-target Inhibitor against Hepatitis Infection based on Barbituric Acid Derivatives.
7. Elucidation of the Effects of Amphetamine and Natural psycho-stimulant Compounds in Alzheimer's Disease.

Thesis Supervised

- Ph.D. 04
- M.S. 23
- B.S. 12

Thesis Under Supervision

- Ph.D. 05
- M.S. 08

Thesis Mentored

- Ph.D. 07
- M.S. 20

International Research Collaborations

- Unit of Infectious Diseases, Harvard Medical School, Boston
- Department of Emerging infectious diseases, DUKE-NUS Medical school, Singapore
- Department of Clinical Chemistry, University Medicine Göttingen, Georg-August-University, Göttingen, Germany, Proteomics and Mass Spectrometry Laboratory
- Department of Biochemistry, Institute of Integrative Biology, University of Liverpool, UK

National Research Collaboration

- National Institute of health (NIH), Islamabad, Pakistan
- Pakistan Agricultural Research Council (PARC)
- National AIDS control program (NACP), Islamabad, Pakistan
- Institute for Biomedical and Genetic engineering (IBGE, KRL)
- Shaukat Khanum Memorial cancer hospital and research center
- International Islamic university, Islamabad.
- Khayber Medical University
- University of Karachi

Teaching Activities

Courses Taught Undergraduates

- Basic Immunology
- Molecular Immunology
- Clinical Genetics
- Clinical Immunology
- Modern Research Techniques
- Vaccinology

Courses Taught Postgraduates

- Human Health and Disease
- Membrane Topology and signal Transduction
- Gene and Cell technology
- General and Molecular Immunology
- Advances in immunology

Revision and development of Curriculum/ programs

- Immunology curricula at UG and PG level
- Development of “Molecular Medicine” MS program
- Inclusion of One-health stream in MS curriculum
- Average “student **feedback**” **88.34%**

Administrative Responsibilities

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|---|----------------------------------|
| • Internationalization committee ASAB | 2023- till date |
| • Head of the Research Department (HoD Research) ASAB, NUST | 2021-2023 |
| • Faculty Head, Health and wellbeing R&I steering committee | 2019-2023 |
| • Member IRB NUST | 2019-2023 |
| • Member Biosafety committee ASAB, NUST | 2020-2023 |
| • Member departmental curriculum review committee (DCRC) | 2014-2016 |
| • In charge of Flow Cytometer Unit of ASAB, NUST | 2016-2023 |
| • Incharge Molecular Immunology Lab ASAB, NUST | 2016-2023 |
| • In charge Cell Culture lab facility at ASAB, NUST | 2015-2022 |
| • Revised the curriculum of immunology ASAB, NUST | 2014-2022 |
| • Member board of studies, Kohsar University Murree, Pakistan | 2019-2020 |
| • Inclusion of One-Health Stream in Molecular Medicine program, ASAB, NUST | 2022 |
| • Interview panel member for faculty hiring ASAB, NUST | |
| • Member committee on regional guidelines for collecting and transporting high-consequence pathogens samples. | 2022
2023 |
| • Member AFAOB Pakistan chapter | |
| • Student advisor ASAB | 2023-till date
2019-till date |

Symposia/Conference/Workshops Facilitated/Organized

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|------|---|
| 2024 | As Steam Safeer(Speaker) at Islamabad Model College for Girls, G-11, Islamabad |
| 2024 | As Speaker & Organizer of seminar “ Breaking Taboos, Building Hope: Decoding Complexities in STDs, Cancer, and Diabetes ” |
| 2024 | Acted as Judge at Department of Biological Sciences, International Islamic University, Islamabad |

- 2023 | **Community outreach, Awareness seminar on “My health, My decision: A step ahead towards women empowerment in Pakistan”.** Murree. 26th Oct 2023
- 2023 | Invited lecture on “**International Seminar on Infection Related Features of Microorganisms (Hybrid Event)**” at COMSTECH. 5th June 2023.
- 2023 | Workshop Trainer for “**Regional Guidelines for Collecting and Transporting Priority Pathogen Samples in the Punjab Province of Pakistan**”. 30th May-1st June 2023.
- 2023 | Training in Ministry of Planning Development & Special Initiatives (PPMI) leadership in public sector
- 2022 | International Workshop on “**Molecular Biology of Pathogens Surveillance**”. 23rd – 24th May 2022, IESE, NUST
- 2021 | International Conference on “**Water, Energy, and Environment for Sustainability**” (IC-WEES)
- 2016 | **IBRO-APRC** conference 2016, ASAB, NUST (lab session, Real time technique)
- 2014 | **Emerging viral threats: Ebola and Congo awareness and training workshop.** 14 Nov 2014, ASAB, NUST
- 2014 | **ICGEB** training course on Basic Biotechnology Techniques (NAYS-ASAB) (lab session Genomics)

Conference/Symposia/Seminars

- 2025 | **Invited Speaker** on “Third International conference on nanoscience and nanotechnology” At school of Chemical and Material sciences, NUST. April 14th-15th 2025
- 2023 | **Invited speaker** on “My health, My decision: A step ahead towards women empowerment in Pakistan”. At Air University, Department of Management. 11th December 2023.
- 2023 | **Invited speaker** on “My health, My decision: A step ahead towards women empowerment in Pakistan”. At International Islamic University. 6th December 2023
- 2023 | **Invited speaker and workshop facilitator** in “2nd Basic Medical Science Conference (BMedCon)” at Khyber Medical University”. 21st to 24th November 2023
- 2023 | **Invited Speaker** “2nd International and 3rd National Conference on Recent Advances in Drug Discovery and Development” at University of Lahore. 15th November 2023.
- 2023 | **Invited lecture** on “International Seminar on Infection Related Features of Microorganisms (Hybrid Event)” at COMSTECH. 5th June 2023.
- 2023 | **Workshop facilitator** for “Regional Guidelines for Collecting and Transporting Priority Pathogen Samples in the Punjab Province of Pakistan”. 30th May-1st June 2023.
- 2023 | Training in Ministry of Planning Development & Special Initiatives (PPMI) “**Leadership in public sector**”.

- 2023 **Invited Speaker**; International Conference on Advances in Biological Sciences (ICABS-2023)
- 2023 International prion 2022 conference, September 13-16, 2022, Gottingen, Germany
- 2022 **Keynote speaker**. International Symposium: Advances in Drug Discovery and Development (ISAD3). 14th March 2022. AWKU Pakistan
- 2022 **Online certificate course instructor** “A Comprehensive Outlook on Serological Testing of SARSCOV2: Sample collection, Testing & Result Interpretation”. COMSTECH Secretariat, Islamabad in collaboration with National University of Sciences and Technology, Islamabad, Pakistan. 24th September, 2020
- 2020 **Invited speaker** “Webinar on Biotechnology and Prevailing Pandemic”. Virtual University of Pakistan, 26th August, 2020
- 2020 **Invited speaker** “Industry-Academia Partnership for Knowledge Economy - Challenges and Opportunities”. Atta-ur-Rahman School of Applied Biosciences, National University of Sciences and Technology, Islamabad, Pakistan. 20th July, 2020
- 2020 International prion 2022 conference, September 13-16, 2022, Gottingen, Germany
- 2019 “Molecular Diagnostics and pathogen detection techniques for emerging and reemerging infectious diseases” By CDC China. National Institute of health July 2019
- 2019 Organizational behaviour and Change management. Pakistan manpower Institute, Ministry of federal education and professional training, Islamabad
- 2019 Building self-confidence and Assertiveness Skills. Pakistan manpower Institute, Ministry of federal education and professional training, Islamabad
- 2017 Singapore international infectious disease conference 2017, Singapore (Poster presentation)
- 2017 Pakistan One-Health Fellowship Concluding Symposium. Bangkok, Thailand
- 2019 “Molecular Diagnostics and pathogen detection techniques for emerging and reemerging infectious diseases” By CDC China. National Institute of health July 2019
- 2019 Organizational behaviour and Change management. Pakistan manpower Institute, Ministry of federal education and professional training, Islamabad
- 2019 Building self-confidence and Assertiveness Skills. Pakistan manpower Institute, Ministry of federal education and professional training, Islamabad
- 2016 Pakistan One-Health Fellowship Symposium, Dubai, National Academy of sciences USA. (February 29- March 4, 2016)
- 2016 International Conference on Translational Medicine, Ziauddin University, Karachi (1-3 February 2016) (Invited speaker)
- 2015 Research Methodology Workshop by Prof James Witte, George Mason University (GMU) USA, 10-17 August 2015. SMME, NUST, Islamabad, Pakistan

2015	Workshop on “Effective communication Skills” by 11 November 2015. Counselling and Career Advisory centre, NUST, Pakistan
2014	Curriculum designing workshop Faculty training centre COMSATS institute of Information technology (CIIT), Islamabad
2011	Oral Presentation “Role of FAM26F in disease course of SIV infection” EUROPRISE Network Annual Conference, Prague 14-17th November 2011
2011	Poster Presentation “Differential gene expression pattern of CD8+ T cells from individuals with and without anti-HIV/SIV Noncytolytic activity” 4th international European congress of virology, Cernobbio Italy
2011	Oral Presentation “Differences in the long term non progression of HIV infected humans and SIV infected macaques” "Molecular Medicine" Annual PhD Retreat, September 2011
2010	Oral Presentation “Differential gene expression pattern of CD8 anti-HIV/SIV Noncytolytic activity" Molecular Medicine" Annual PhD Retreat, September 2010

Soft Skill Trainings

1. leadership in public sector: Training in Ministry of Planning Development & Special Initiatives (PPMI) 2023.
2. **Organizational behavior and Change management.** Pakistan manpower Institute, Ministry of federal education and professional training, Islamabad.
3. **Building self-confidence and Assertiveness Skills.** Pakistan manpower Institute, Ministry of federal education and professional training, Islamabad
4. **Effective communication Skills.** Counseling and Career Advisory center, NUST, Pakistan
5. **“Patenting issues in science”.** Organized by Molecular Medicine program, Gottingen
6. **“Scientific integrity and responsible conduct for research”.** Organized by German Primate Center, Gottingen
7. **“Scientific writing skills”.** Organized by Molecular Medicine program, Gottingen
8. **“Project management in scientific research”.** Organized by Molecular Medicine program, Gottingen
9. **“Sex and gender aspects in biomedical science”.** Organized by Molecular Medicine program, Gottingen
10. **“Teamwork and leadership qualities”** Organized by Molecular Medicine program, Gottingen
11. **“Career management”.** Organized by German Primate Center, Gottingen, Germany

Education

2012	Ph.D.	Molecular	Medicine	(Molecular	Immunology)
	Georg August University, Gottingen, Germany				
	Thesis: <i>Gene Expression Pattern and Functional Analysis of CD8+ T Cells from</i>				

Individuals with or without anti-HIV/SIV noncytolytic activity.

2005-2007	M.Phil Molecular Biology/Biochemistry Quaid-e-Azam University, Islamabad, Pakistan Thesis: <i>Characterization of EDAR gene in certain animal species.</i>
2003-2005	M.Sc Molecular Biology/Biochemistry Quaid-e-Azam University, Islamabad, Pakistan
2000-2002	B.Sc Zoology, Botany, Chemistry The University of Punjab
1998-2000	F.Sc Pre-Medical Federal Board of Intermediate and Secondary Education

Publications

Year 2025

1. Akbar, G., Summers, K. J., Hashmi, Imran., Quince, C., Wellington, E., Waleed, A., Rehman, U. E., Tariq, N., Nisa, U. Z., Fatima, A., Zaheer, H., Farooq, S., Ilyas, I., Ali, S., Javed, A. (2025) 197:632 Monitoring of bacterial and potentially toxic elements contamination in the Rawal Lake tributaries and filtration plant. *Environmental Monitoring and Assessment*. 1-16, <https://doi.org/10.1007/s10661-025-14069-4>
2. Shoaib, S., Awan, N. A., Abdullah, S., Ahmed, S., Javed, A. (2025) Engineering and Optimizing Clomipramine-Encapsulated Dextran-Based Polymeric Nanoparticles for Cancer Therapeutics. *Journal of Drug Delivery Science and Technology*, 106936. <https://doi.org/10.1016/j.jddst.2025.106936>
3. Ayaz, M., Ghani, U., Alam, A., Assad, M., Javed, A., Elhenawy, A. A., Ali, M., Ahmad, M. (2025). Amide Derivatives of Ibuprofen as Potent Anti-cancer Agents: Synthesis, Biological Activities and Computational Studies. *Journal of Molecular Structure*, 142487. <https://doi.org/10.1016/j.molstruc.2025.142487>
4. Tahira, S., Younas, F., Saeed, A., Javed, A., Habib, S., Khurshid, A., Qadar, S., Arshad, M. (2025). Synthesis and molecular docking of new bromhexine-conjugated thioureas as anticancer agents; in vitro MTT assay, structure-activity relationship (SAR), density functional theory (DFT), and inhibition potential of DNA topoisomerase II through docking studies. *Journal of Molecular Structure*, 142305. <https://doi.org/10.1016/j.molstruc.2025.142305>
5. Yousaf, H., Javed, A., Sultana, N., Farouk, K., Usman, M., Khan, G. K., Gomez, M. K., Asghar, S., Justin, S. (2025). Unlocking the secrets: Exploring the connection between HPV and bladder cancer in Pakistan. *Urologic Oncology: Seminars and Original Investigations*, <https://doi.org/10.1016/j.urolonc.2025.03.014>
6. Rahim, S., Sadiq, A., Javed, A., Muhammad, N., Shaik, M. R., Assal, M. E., ... Ali, S. (2025). Organotin(IV) derivatives of 4-chloro-2-methylphenoxyacetic acid: synthesis, spectral characterization, X-ray structures, anticancer, enzyme inhibition, antileishmanial, antimicrobial and antioxidant activities. *Journal of Biomolecular Structure and Dynamics*, 1–16. <https://doi.org/10.1080/07391102.2024.2438362>

Year 2024

1. Ghani, U., Ghori, F. K., Qamar, M. U., Khan, H., Azad, B., Habib, S., ... & Javed, A. (2024). SLNP-based CDK4-targeted nanotherapy against glioblastoma. *Frontiers in Oncology*, 14, 1455816.

<https://doi.org/10.3389/fonc.2024.1455816>

2. Alam, Aftab, Aneela Javed, Najeeb Ur Rehman, Mohammad Assad, Ahmed A. Elhenawy, Mohammed M. Alanazi, Saeed Ullah et al. "Ketorolac-Based Ester Derivatives as Promising Hits for Malignant Glioma: Synthesis, Brain Cancer Activity, Molecular Docking, Dynamic Simulation and DFT Investigation." *Journal of Molecular Structure* (2024): 141128. <https://doi.org/10.1016/j.molstruc.2024.141128>
3. Arshad, Nasima, Yasir Mehmood, Hammad Ismail, Fouzia Perveen, **Aneela Javed**, Pervaiz Ali Channar, Aamer Saeed, Sadia Naseem, and Fatima Naseer. "Newly synthesized sulfonamide derivatives explored for DNA binding, enzyme inhibitory, and cytotoxicity activities: a mixed computational and experimental analyses." *RSC advances* 14, no. 47 (2024): 35047-35063 , DOI: <https://doi.org/10.1039/D4RA06412G>
4. Aruge, Samreen, Maleeha Asif, Aamira Tariq, Saaim Asif, Muhammad Zafar, Muhammad Affan Elahi, Lubna Riaz, **Aneela Javed**, Nazish Bostan, and Sadia Sattar. "Impact of MTHFD2 Expression in Bladder/Breast Cancer and Screening of Its Potential Inhibitor." *ACS omega* 9, no. 44 (2024): 44193-44202. DOI: <https://doi.org/10.1021/acsomega.4c03599>
5. Rahim, Shahnaz, Abdul Sadiq, **Aneela Javed**, Maciej Kubicki, Benson Kariuki, Mohammad Assad, Niaz Muhammad et al. "In vitro anticancer, antioxidant, antimicrobial, antileishmanial, enzymes inhibition and in vivo anti-inflammatory activities of organotin (IV) derivatives of 4-bromophenoxyacetic acid." *Journal of Molecular Structure* 1313 (2024): 138703. DOI: <https://doi.org/10.1016/j.molstruc.2024.138703>
6. Jabeen, Erum, Hafiz Muhammad Dawood, Mehwish Huma Nasir, Ahmed M. Zidan, **Aneela Javed**, Muhammad Saad Khan, Samar Naseer, Naveed Kausar Janjua, Asadullah Dawood, and Hafiza Zumra Fatima Hussain. "Influence of encapsulation metal hydroxy flavones in 2-hydroxypropyl- β -cyclodextrin over their

- DNA binding and anti-cancerous activities." *Inorganic Chemistry Communications* 167 (2024): 112663. DOI: <https://doi.org/10.1016/j.inoche.2024.112663>
7. Usman, M., Rana, M. S., Salman, M., Alam, M. M., Khurshid, A., Umair, M., ... & **Javed, A.** (2024). Molecular characterization of rotavirus indicates predominance of G9P [4] genotype among children with acute gastroenteritis: First report after vaccine introduction in Pakistan. *Journal of Medical Virology*, 96(6), e29761. DOI: <https://doi.org/10.1002/jmv.29761>
 8. Jabeen, Kehkshan, Madiha Khilaid, Sajid Mansoor, Ali Zalan, Momina Ejaz, Atika Mansoor, and **Aneela Javed**. "Host immune players and their response to Hepatitis C therapies." *PLOS Global Public Health* 4, no. 6 (2024): e0003110. DOI: <https://doi.org/10.1371/journal.pgph.0003110>
 9. Chen, Shengyao, Muhammad Saqib, Hafiz Sajid Khan, Yuan Bai, Usman Ali Ashfaq, Muhammad Khalid Mansoor, Abulimti Moming et al. "Risk of infection with arboviruses in a healthy population in Pakistan based on seroprevalence." *Virologica Sinica* (2024). DOI: <https://doi.org/10.1016/j.virs.2024.04.001>
 10. Rahim, Shahnaz, Abdul Sadiq, **Aneela Javed**, Awal Noor, Niaz Muhammad, Mohammad Ibrahim, Sadaf Qayyum et al. "Synthesis, characterization, enzyme inhibition, antioxidant, anticancer and antimicrobial potential of organotin (IV) derivatives of 4-fluorophenoxyacetic acid." *Arabian Journal of Chemistry* 17, no. 4 (2024): 105698. DOI: <https://doi.org/10.1016/j.arabjc.2024.105698>
 11. Arshad, Nasima, Muhammad Shakeel, **Aneela Javed**, Fouzia Perveen, Aamer Saeed, Atteeque Ahmed, Hammad Ismail, Pervaiz Ali Channar, and Fatima Naseer. "Exploration of newly synthesized amantadine-thiourea conjugates for their DNA binding, anti-elastase, and anti-glioma potentials." *International Journal of Biological Macromolecules* 263 (2024): 130231. DOI: <https://doi.org/10.1016/j.ijbiomac.2024.130231>
 12. Donia, A., M. Nawaz, M. F. Shahid, R. Shahid, **A. Javed**, T. Yaqub, and H. Bokhari. "Seroprevalence of IgG Antibodies Against SARS-CoV-2 N Protein Among Vaccinated and Unvaccinated Subjects in Lahore, Pakistan." *Acta Medica Bulgarica* 51, no. 1 (2024): 30-35. DOI: <https://doi.org/10.2478/amb-2024-0005>
 13. Ejaz, Momina, Ali Zohaib, Muhammad Usman, Muhammad Moaaz Anwar, Hafiz Sajid Khan, Muhammad Ammar, Muhammad Saqib et al. "Genotypic analysis of hepatitis E virus (HEV) from sporadic symptomatic cases in Pakistan." *Infection, Genetics and Evolution* 118 (2024): 105567. DOI: <https://doi.org/10.1016/j.meegid.2024.105567>
 14. Khan, Rawaiz, Muhammad Umar Aslam Khan, Goran M. Stojanović, **Aneela Javed**, Sajjad Haider, and Saiful Izwan Abd Razak. "Fabrication of bilayer nanofibrous-hydrogel scaffold from bacterial cellulose, PVA, and gelatin as advanced dressing for wound healing and soft tissue engineering." *ACS omega* 9, no. 6 (2024): 6527-6536. DOI: <https://doi.org/10.1021/acsomega.3c06613>
 15. Khan, Ishaq N., Shiza Navaid, Walifa Waqar, Deema Hussein, Najeeb Ullah, Muhammad Umar Aslam Khan, Zakir Hussain, and **Aneela Javed**. "Chitosan-based polymeric nanoparticles as an efficient gene delivery system to cross blood brain barrier: in vitro and in vivo evaluations." *Pharmaceuticals* 17, no. 2 (2024): 169. DOI: <https://doi.org/10.3390/ph17020169>
 16. **Javed, Aneela**, Sabahat Habib, and Aaima Ayub. "Evolution of protein domain repertoires of CALHM6." *PeerJ* 12 (2024): e16063. DOI: <https://doi.org/10.7717/peerj.16063>
 17. Ghani, U., Ghorri, F. K., Qamar, M. U., Khan, H., Azad, B., Habib, S., ... & **Javed, A.** (2024). SLNP-based CDK4-targeted nanotherapy against glioblastoma. *Frontiers in Oncology*, 14, 1455816. DOI: <https://doi.org/10.3389/fonc.2024.1455816>
 18. Alam, Aftab, **Aneela Javed**, Najeeb Ur Rehman, Mohammad Assad, Ahmed A. Elhenawy, Mohammed M. Alanazi, Saeed Ullah et al. "Ketorolac-Based Ester Derivatives as Promising Hits for Malignant Glioma: Synthesis, Brain Cancer Activity, Molecular Docking, Dynamic Simulation and DFT Investigation." *Journal of Molecular Structure* (2024): 141128. DOI: <https://doi.org/10.1016/j.molstruc.2024.141128>

Year 2023

1. Arshad, N., Parveen, U., Channar, P.A., Saeed, A., Saeed, W.S., Perveen, F., Javed, A., Ismail, H., Mir, M.I., Ahmed, A., Azad, B., Khan, I., 2023. Investigation of Newly Synthesized Bis-Acyl-Thiourea Derivatives of 4-Nitrobenzene-1,2-Diamine for Their DNA Binding, Urease Inhibition, and Anti-Brain-Tumor Activities. *Molecules* 28, 2707. <https://doi.org/10.3390/molecules28062707>
2. Konain, K., Faheem, M., Ullah, K., Ayub, S., Ahmed, J., Huma, Z., Javed, A., Khan, T., Hussain, D., Khan, I.N., 2023. Biomarker-Guided Drug Repurposing and Molecular Validation of Angiotensin-2 Receptor Type-

- 1 in Brain Tumor. Precision Medicine Communications 3, 27–42. <https://doi.org/10.55627/pmc.003.001.0296>
3. Nasir, S., Nazir, S., Hanif, R., Javed, A. *, 2023. Glioblastoma Multiforme: Probing Solutions to Systemic Toxicity towards High-Dose Chemotherapy and Inflammatory Influence in Resistance against Temozolomide. *Pharmaceutics* 15, 687. <https://doi.org/10.3390/pharmaceutics15020687>
4. Jabeen, K., Javed, A. *, Waris, A., Shahzad, S., 2023. Restoration of IL-11 and IL-15 cytokine production post calcium modulators and ROS treatment can assist viral clearance both in vitro and in vivo. *Iran J Basic Med Sci* 26, 176–182. <https://doi.org/10.22038/IJBMS.2022.65983.14536>
5. Khan, R., Naureen, H., Javed, A., Khalid, M., Khan, H., 2023. Alocasia odora-mediated synthesis of silver nanoparticles, their cytotoxicity, and virucidal potential. *Appl Microbiol Biotechnol* 107, 111–123. <https://doi.org/10.1007/s00253-022-12298-y>
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Patents

1. Development of Real-Time PCR (SYBR Green) based Diagnostic Assays for SARS-CoV2

IP Type: Utility Patent

Field: Healthcare Biotechnology

Inventors: Aneela Javed, Ali Zohaib, Maham Yamin

Submitted Sequences

- GenBank JX502179
- GenBank JX502180
- GenBank: MT240479.1

Languages

English - Full Professional Proficiency
German - Limited Working Proficiency
Urdu - Native/Bilingual Proficiency
Potohari - Native/Bilingual Proficiency