**Dr. Tariq Javed**

**Assistant Professor, Department of Pharmaceutical Sciences**  
**GC University, Lahore**

**PROFESSIONAL SUMMARY**

HEC-approved Ph.D. supervisor and pharmaceutical scientist with over 10 years of experience in molecular medicine, pharmaceutical chemistry, and medicinal plant research. Expertise in drug design and development for both communicable and non-communicable diseases, focusing on therapeutic agents against the Hepatitis C virus, Hepatitis B virus, Dengue Virus, COVID-19 and other infectious diseases. Published over h-index 13, *i*10 index 13, citations 978 in international and national journals, authored four books, and secured multiple patents in drug development techniques. Played a key role in establishing Lahore Pharmacy College and Ruth Pfau College of Life Sciences.

**CONTACT INFORMATION**

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**EDUCATION**

**Ph.D. in Molecular Medicine** (2014)  
Centre of Excellence in Molecular Biology, University of the Punjab, Lahore  
**Research Thesis:** Studies on Therapeutic Potential of Medicinal Plants against Hepatitis C virus  
*Indigenous Ph.D Fellowship from Higher Education Commission (HEC) Pakistan*

**M.Phil in Pharmaceutical Chemistry** (2007)  
Bahauddin Zakariya University, Multan  
*With Distinction*  
**Research Thesis:** Phytochemical and Biological studies of *Terminalia arjuna* (Combretaceae)

**B.Pharm** (2004)  
Bahauddin Zakariya University, Multan  
*With Distinction*

**WORK EXPERIENCE**

**Assistant Professor** (2022-Present)  
Department of Pharmaceutical Sciences, GC University, Lahore

**Principal** (2019-2022)  
Ruth Pfau College Life Sciences (LMDC), GC University, Lahore  
*Played a leading role in establishing the college*

**Associate Professor** (2016-2022)  
Lahore Pharmacy College (LMDC), University of Health Sciences, Lahore

**Head of Pharmaceutical Chemistry Department** (2017-2022)  
Lahore Pharmacy College (LMDC), University of Health Sciences, Lahore

**Director of Research** (2016-2022)  
Lahore Pharmacy College (LMDC), University of Health Sciences, Lahore

**Assistant Professor** (2015-2016)  
Faculty of Pharmacy, Bahauddin Zakariya University, Multan

**Assistant Professor, Pharmaceutical Microbiology** (2013-2014)  
Lahore Pharmacy College (LMDC), University of Health Sciences, Lahore  
*Contributed significantly to the establishment of the college*

**RESEARCH EXPERTISE & SKILLS**

**Cell & Molecular Biology Techniques**

* Cell line cultivation (Huh-7, HCT 116, HeLa, MCF-7, HepG2, MDBK, T273K, Vero, CHO)
* Cytotoxicity assays (MTT, Trypan blue, Rezasurin)
* RNA/DNA extraction and purification
* Gene expression analysis (qPCR)
* siRNA and CRISPR/Cas9 techniques
* Transfection protocols (Lipofectamine)
* Diagnostic PCR (HCV, HBV)
* Protein expression and purification (SDS-PAGE, Western Blot)
* ELISA and Immunocytochemistry

**Pharmaceutical & Analytical Techniques**

* Bioassay-guided purification of natural products
* Extraction methods for phytochemicals
* Chromatographic techniques (TLC, Column, HPLC)
* Spectroscopic techniques (GC/MS, LC/MS, FTIR)
* Dose-response and synergistic effect assays
* Molecular docking and in silico drug design (AutoDock Vina, PyMol)

**RESEARCH PROJECTS**

* Herbal topical gel composition comprising of *Tecomella undulata* leaves extract
* Kit development for instant detection of microbes in pasteurized milk
* DNA extraction kit for plant, meat, and body fluids
* RNA extraction kit from viruses
* Rapid paper-based strip development for microbes in milk and water
* Kit for instant detection of gram-positive and gram-negative bacteria
* Microbial production of Active Pharmaceutical Ingredients (APIs)

**PUBLICATIONS & INTELLECTUAL PROPERTY**

**Books**

* Authored four books on modern drug development techniques targeting infectious diseases

**Patents**

* Multiple international patents in drug development techniques

**International Publications (Selected, Ranked by Impact Factor)**

1. Ansar, M., Ashfaq, U.A., Sarwar, M.T., **Javed, T.**, Rehman, S., Hassan, S., and Riazuddin, S. (2011). Inhibition of full length hepatitis C virus particles of 1a genotype through small interference RNA. Virology Journal, 8, 203. **IF: 6.7**
2. Ashfaq, U.A., **Javed, T.**, Rehman, S., Nawaz, Z., and Riazuddin, S. (2011). Inhibition of HCV 3a core gene through Silymarin and its fractions. Virology Journal, 8, 1-7. **IF: 6.7**
3. Ashfaq, U.A., **Javed, T.**, Rehman, S., Nawaz, Z., and Riazuddin, S. (2011). Lysosomotropic agents as HCV entry inhibitors. Virology Journal, 8, 163. **IF: 6.7**
4. Ashfaq, U.A., **Javed, T.**, Rehman, S., Nawaz, Z., and Riazuddin, S. (2011). An overview of HCV molecular biology, replication and immune responses. Virology Journal, 8, 161. **IF: 6.7**
5. Rehman, S., Ashfaq, U.A., Riaz, S., **Javed, T.**, and Riazuddin, S. (2011). Antiviral activity of Acacia nilotica against Hepatitis C Virus in liver infected cells. Virology Journal, 8, 220. **IF: 6.7**
6. **Javed, T.**, Ashfaq, U.A., Riaz, S., Rehman, S., and Riazuddin, S. (2011). In-vitro antiviral activity of Solanum nigrum against Hepatitis C Virus. Virology Journal, 8, 2. **IF: 6.7**
7. Akbar, M., Javaid, A., Ahmed, E., **Javed, T.**, and Clary, J. (2014). Holadysenterine, a Natural Herbicidal Constituent from Drechslera australiensis for Management of Rumex dentatus. Journal of Agricultural and Food Chemistry, 62, 368-372. **IF: 5.895**
8. Ahmed, Maqsood, et al. (2022). Comprehensive phytochemical profiling, biological activities, and molecular docking studies of *Pleurospermum candollei*: An insight into potential for natural products development. Molecules, 27(13), 4113. **IF: 4.184**
9. Riaz, S., Javed, M. A., Nawaz, I., and **Javed, T.** (2022). Biochemical characterization, cytotoxic, antimutagenic, anticancer and molecular docking studies on *Tecomella undulata*. Saudi Journal of Biological Sciences. **IF: 4.2**
10. Riaz, S., Tiwana, H., Muhammad, A., Ali, K., and **Javed, T.** (2021). Anti-hepatitis C Virus potential of *Szygium Cumine* a bioassay guided screening in liver infected hepatocytes. Archives of Microbiology, Springer. **IF: 2.55**
11. Aslam, N., **Javed, T.**, Khalid, S., Shaheen, N., Fatima, S., Latif, M., Afzal, K., Afzal, S., Abbas, K. and Yameen, M. A. (2020). Antiprotease activity of indigenous medicinal plants against Pakistani Echis carinatus venom. Pharmacognosy Magazine, 16:416. **IF: 2.55**
12. Idrees, S., Ashfaq, U.A., Masoud, M.S., Qasim, M., **Javed, T.**, and Ali, A. (2014). Gene Expression Profiling of Immune Responsive and Fibrosis Genes in Hepatitis C Virus Infected Patients. Viral Immunology, 27, 250-254. **IF: 2.257**
13. Rehman, S., Ashfaq, U.A., and **Javed, T.** (2011). Antiviral drugs against hepatitis C virus. Genetic Vaccines and Therapy, 9. **IF: 1.8**

**National Publications (HEC HJRS Y Category)**

1. **Javed T.**, Riaz S., Uzair M., Mustafa G., Mohyuddin A., Ahmad B. (2016). Biological activity of *Terminalia arjuna* on human pathogenic microorganisms. Pakistan Journal of Pharmaceutical Research, 2:23-27. **HEC HJRS Category Y**
2. Saba S., **Javed T.**, Riaz S., Afzal S., Hussain S., Riaz S., Muhammad U., Ahmad B. (2016). Phytochemical and biological evaluation of *Ocimum basilicum* roots. International Journal of Pharmacy and Pharmaceutical Research, 7:293-301. **HEC HJRS Category Y**
3. Riaz S., Aadil M., Anjum S., Mustafa G., **Javed T.** (2017). Gender specific correlation among fingerprint patterns and blood group in Pakistani population. Pakistan Journal of Pharmaceutical Research, 3:22-25. **HEC HJRS Category Y**
4. Batool, A., Gilani, P., and **Javed, T.** (2018). Risk factors, pathophysiology and management of hypertension. International Journal of Pharmaceutical Sciences and Scientific Research, 4(5), 49-61. **HEC HJRS Category Y**

**PROFESSIONAL AFFILIATIONS & MEMBERSHIPS**

* American Society of Microbiology (Membership No. 200449271) - Research Mentor
* American Society of Pharmacognosy
* US Pharmaceutical Chemistry Society
* Royal Society of Tropical Medicine and Hygiene (RSTMH), UK - Global assessor
* European Infectious Disease Society - Project Evaluator
* Life Member, Pakistan Biological Safety Association (PBSA)
* Master Trainer, Advanced Biological and Risk Mitigation (Trained by NIH, Forgarty International USA)
* European Society of Clinical Microbiology and Infectious Diseases
* Editor, PLOS ONE (2023)
* International Society of Infectious Diseases
* National Academy of Young Scientists

**ADMINISTRATIVE EXPERIENCE**

* Technical Committee Member, Department of Pharmaceutical Sciences, GCU Lahore
* Member, Board of Studies Pharmacy (BOS), University of Health Science, Lahore
* Principal, Ruth Pfau College Life Sciences (LMDC), GCU Lahore
* Member, Ethical Committee, Lahore Physiotherapy College (LMDC)
* Director Research, Lahore Pharmacy College (LMDC)
* Chairman, Research Ethical Committee, Lahore Pharmacy College (LMDC)
* Lab Coordinator and Instruments Purchase Committee Member, Lahore Pharmacy College
* Member, Institute Review Board of Lahore College of Physical Therapy

**EXTERNAL EXAMINER**

* Punjab Pharmacy Council, Lahore
* Lahore Pharmacy College (LMDC)
* Department of Pharmacy, COMSAT Lahore
* University of Health Sciences, Lahore
* Bahauddin Zakariya University, Multan
* Department of Pharmacy, University of Lahore
* Department of Pharmacy, Riphah International University (Lahore)
* Department of Pharmaceutical Sciences, UCP Lahore

**PROFESSIONAL COLLABORATIONS**

**International Collaborator**

* Chapman University, California, USA

### [Johns Hopkins University, USA](https://www.jhu.edu/)

* BOKU University Vienna, Austria
* University Of Foggia, Italy
* KU Leuven, Belgium

**Pharmaceutical Industries**

* JAWA Pharmaceutical Industry (Pvt) Ltd, Lahore
* Zodiac Pharma (Pvt) Ltd, Lahore
* NBS Pharmaceuticals (Pvt) Ltd, Lahore

**Diagnostic/Microbiology Research Labs**

* CITI Lab and Research Center, Lahore
* Genome Research and Diagnostic Center, Lahore
* Bio-Tech Lahore Diagnostic and Research Center
* Nova Plus Diagnostic Research Center, Lahore

**WORKSHOPS & CONFERENCES ATTENDED**

* International Training Workshop on "Metagenomics-based approach for viral disease surveillance," Islamabad (September 2024)
* Online Mini Course on "Basics of CRISPR/Cas9" by Jacksons Laboratory (April 2022)
* COMSTECH-SMIIC International Workshop on Halal Testing and Standardization (August 2022)
* International Virtual Training Workshop on Managing Science and Technology Parks (September 2022)
* COMSTECH Youth Forum: Pakistan-Turkey-Kazakhstan Youth Forum on Biotechnology (September 2022)
* International Symposium on Excellence in Science (ISES) (September 2022)
* Halal Assembly 2023, Bangkok, Thailand (December 2023)
* Workshop Training of Trainers: Advanced Biological and Risk Mitigation, COMSTECH, NIH USA, Forgarty International (October 2018)
* 8th European Conference on Predictive, Preventive and Personalized Medicine & Molecular Diagnostics, Rome, Italy (August 2018)
* 5th International Conference on Predictive, Preventive and Personalized Medicine & Molecular Diagnostics, Valencia, Spain (December 2016)

**ONLINE TRAINING CERTIFICATIONS**

* Learning Lab for Laboratory Medicine on NEJM Knowledge AACC, accredited by the Massachusetts Medical Society (April 2020 - April 2021)
* Beginner's Guide to Inbred, Outbred, Hybrid, Mutant, and Transgenic Mice, CANVAS CATALOG (April 2020)
* COVID-19: Operational Planning Guidelines and COVID-19 Partners Platform to support country preparedness and response, WHO (March 2020)
* Let's Break the Chain of COVID-19 Infection, The Muhammad bin Rashid University of Medicine and Health Sciences (April 2020)

**M.PHIL THESIS SUPERVISED/EVALUATED**

* BZU Multan: Phytochemical and biological studies on *Achyranthes aspera*
* UOL, Lahore: Antimicrobial and antioxidant activity of *Breynia disticha* and *Vernonia elaeagnifolia*
* UOL, Lahore: Phytochemical and pharmacological investigation on *Conocarpus lancifolius*, *Melaleuca decora* and *Syngonium podophyllum*
* UOL, Lahore: Antidiabetic and cytotoxic activity of *Trigonella corniculata* and *Albzia lebbeck*
* UOL, Lahore: Improvement in solubility of mebendazole by self-emulsifying solid