



Dr. JavariaQazi

Assistant Professor

Biotechnology Department
Faculty Biological Sciences
Quaid-i-Azam University (QAU),
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Former Senior Scientist
Pakistan Atomic Energy
Commission, National Institute
for Biotechnology and Genetic
Engineering (NIBGE),
Faisalabad, Pakistan

19 international and 2 national
publications
Impact factor: more than 50
Citations: more than 260

Working in the field of
Molecular Biotechnology as
scientist and trainer since
16 years

Founding member and group
leader of Viral Epidemiology
and Diagnostics lab at Biotech
Dept. QAU

Nationality: Pakistani

Objective: To understand and improve myself in the roles I exist.

Academic Qualification:

- (2005-2010): Ph.D. Biotechnology, NIBGE, PAEC (QAU), Pakistan
- (2002-2004): M.Phil. Biotechnology, NIBGE, PAEC (QAU), Pakistan
- (1999-2001): M.Sc. Botany, University of Peshawar, Peshawar, Pakistan
- (1996-1998): B. Sc. Biology, Govt. College for Woman, Haripur (University of Peshawar)

Service Record:

- (2011 till date): Assistant Professor, Biotechnology, QAU
- (2010-2011): Senior Scientist, NIBGE, Faisalabad
- (2007-2010): Junior Scientist, NIBGE, Faisalabad
- (2004-2007): Research Fellow, NIBGE, Faisalabad

Teaching/Supervision:

- Two courses (6 credit hrs) to M-Phil/PhD
- 24 M.Phil completed/ 7 under supervision
- 1 PhD completed/ 4 under supervision

Research Interests:

- Molecular epidemiology of viruses
- Health care system
- Development of cheap diagnostic tools
- Host pathogen interactions
- Gene silencing and RNA interference
- Development of viral vectors for gene delivery

Expertise/skills:

- PCR and its modifications, cloning, construct designing, DNA probes, DNA/protein electrophoresis, viral vectors and infectivity analysis
- Plant and bacterial protein expression systems and protein purification
- Microbiological techniques; culturing, preservation, transformation, plasmid isolation
- Stable plant transformation of multiple model and crop plants
- Computer skills like office automation/Corel Draw and multiple bioinformatics tools for DNA/protein data analysis

Academic Referees:

- Prof. Dr. Robert Williams Briddon, PhD supervisor
rob.briddon@gmail.com
- Prof. Dr. Shahid Mansoor (S.I), Director NIBGE, P.O Box # 577, Jhang Road, Faisalabad, Pakistan
shahidmansoor7@gmail.com
- Prof. Dr. Bushra Mirza, Biochemistry Department, QAU, Islamabad
bushramirza@qau.edu.pk

Trainings/Certificates/ Conferences

Office Automation (2000),
Board of Technical Education
Peshawar, KP, Pakistan

Bachelor of Education (B.Ed,
2005), Allama Iqbal Open
University Islamabad

International Symposium on
"Characterization and
Management of Emerging Viral
Diseases in the Developing
World" 14-22 Nov, 2006 at
NIBGE, Faisalabad

CFC/ICAC International Meeting
"Regional Consultation on
Genetically Modified Cotton for
Risk Assessment and
Opportunities for Small-Scale
Cotton Growers" from 6-8
March 2007 at NIBGE

Represented Pakistan at the
Nobel laureates meeting
January 27-29th 2007, at
Islamabad, Pakistan

National Training Workshop for
Cotton Breeders on "Breeding
of Bt Gene in Local Elite
Varieties". 28th April 2008 to
2nd May 2008 at NIBGE
Faisalabad

One-Day Consultation National
Workshop of Rice and Wheat
Biotechnology R&D on 18th July
2008 at NIBGE

Second National Training
Workshop on Electron and
Confocal Microscopy (2010),
NIBGE, Faisalabad

Workshop on development of
"Educational materials on
Bioethics, Biosafety, Biosecurity
and Dual use education". Held
on May 16th 2011, at Quaid-i-
Azam University Islamabad.

Three days training workshop

Publications in IF International journals:

- Hussain, M., Qazi, J., Mansoor, S., Iram, S., Bashir, M., and Zafar, Y. 2004. First report of Mungbean yellow mosaic India virus on mungbean in Pakistan. *Plant Pathology* 53:518
- Mansoor, S., Qazi, J., Amin, I., Abdullah, K., Imtiaz, A., Saboohi, R., Zafar, Y., and Briddon, R. 2005. A PCR-based method, with internal control, for the detection of *Banana Bunchy Top Virus* in Banana. *Molecular Biotechnology* 30:167-169
- Qazi, J., Mansoor, S., Amin, I., Awan, M. Y., Briddon, R. and Zafar, Y. 2006. First report of *Mungbean Yellow Mosaic India Virus* on mothbean in Pakistan. *Plant Pathology* 55:818
- Qazi, J., Amin, I., Mansoor, S., Iqbal, M.J. and Briddon, R. 2007. Contribution of the satellite encoded gene β C1 to cotton leaf curl disease symptoms. *Virus Research* 128:135-139
- Qazi, J., Ilyas, M., Mansoor, S. and Briddon, R. 2007. Mungbean Yellow Mosaic Viruses: Genetically isolated begomoviruses. *Molecular Plant Pathology* 8(4):343-348
- Amin, I., Qazi, J., Mansoor, S., Ilyas, M. and Briddon, R. 2008. Molecular characterization of Banana bunchy top virus (BBTV) from Pakistan. *Virus Genes* 36:191-198
- Ilyas, M., Qazi, J., Mansoor, S. and Briddon, R. 2009. Molecular characterization and infectivity of a "Legumovirus" (genus Begomovirus: family Geminiviridae) infecting the leguminous weed *Rhynchosia minima* in Pakistan. *Virus Research* 145(2):279-284
- Akhter, A., Qazi, J., Saeed, M and Mansoor, S. 2009. A Severe Leaf Curl Disease on Chilies in Pakistan is Associated with Multiple Begomovirus Components. *Plant Disease* 93(9):962
- Ilyas, M., Qazi, J., Mansoor, S. and Briddon, R. 2010. Genetic diversity and phylogeography of begomoviruses infecting legumes in Pakistan. *Journal of General Virology* 91:2091-2101
- Amin, I., Bashir, R., Ilyas, M., Qazi, J., Yadav, J.S., Mansoor, S., Fauquet, C. And Briddon, R.W. 2011. Identification of a major pathogenicity determinant and suppressors of RNA silencing encoded by a South Pacific isolate of Banana bunchy top virus originating from Pakistan. *Virus Genes* 42(2):272-81
- Amin, I., Hussain, K., Akbergenov, R., Yadav, J.S., Qazi, J., Mansoor, S., Hohn, T., Fauquet, C.M and Briddon, R.W. 2011. Suppressors of RNA silencing encoded by the essential components of the cotton leaf curl begomovirus betasatellite complex. *Molecular Plant-Microbe Interactions* 24:973-983

Trainings/Certificates/ Conferences

Biosafety Research in Pakistan:
Grants Program Workshop.
Held on Dec, 13th 2013 at
COMSATS, Islamabad

Workshop/conference on
"computational tools", National
Centre of Physics, Islamabad,
(2013)

Emerging trends in
Bioinformatics and
computational Biology May 25,
2013 (Mohammad Ali Jinah
University, Islamabad)

International symposium on
Lasers and their applications.
December 7-9, 2015, NILOP,
Pakistan

Two days' workshop on "Next
Generation Data Analysis".
March 3-4, 2016. COMSATS,
Islamabad.

Lecture series on Next
Generation Sequencing
Applications and Procedures.
April 2016. NCB, QAU,
Islamabad

Three days' workshop on
"Teaching and Research Skills"
October 18-20, 2016 (QAU,
Islamabad)

Research Projects as PI:

Completed: "Molecular
Identification and sequence
analysis of Potato leaf Roll
Virus". HEC (2012-2013)

Ongoing: "Optical
characterization of Dengue
virus infection in human blood
serum". PMRC (2015-2016)

Publications in IF International journals:

- Khan, T and Qazi, J. 2013. Hurdles to the global anti-polio campaign in Pakistan: an outline of the current status and future prospects to achieve a polio free world. *J. Epidemiol. Community Health* 67:696–702
- Haider, Z., Ahmad, F. Z., Mahmood, A., Waseem, T., Shafiq, I., Raza, T., Qazi, J., Siddique, N and Humayun, M. A. 2015. Dengue fever in Pakistan: a paradigm shift; changing epidemiology and clinical patterns. *Perspect. in public health* 135(6):294-8
- Manya, S and Qazi, J. 2016. "From Pakistan a line of hope for 'The Polio Eradication and Endgame Strategic Plan 2013–2018'." *Infectious Diseases* 48(2): 167-168
- Qazi, J. 2016. Banana Bunchy Top virus and the bunchy top disease. *J Gen Plant Pathol* 82:2–11 (DOI 10.1007/s10327-015-0642-7)
- Qazi, J. 2016. End of Year 2015 in Polio Endemic Pakistan: Yet another Beginning towards End. *Food Environ Virol* 8:109–111 (DOI 10.1007/s12560-016-9230-z)
- Khan, M.Z., Saqib S., Gardyzi, S.I.S.H and Qazi, J. 2016. Prevalence of Blood-Borne Viruses in Health Care Workers of a Northern District in Pakistan: Risk Factors and Preventive Behaviors. *Canadian Journal of Infectious Diseases and Medical Microbiology* (<http://dx.doi.org/10.1155/2016/2393942>)
- Khan, Z., Qazi, J., Rasheed, A and Mujeeb-Kazi, A. 2017. Diversity in D-genome synthetic hexaploid wheat association panel for seedling emergence traits under salinity stress. *Plant Genetic Resources* 15 (6), 488-495. doi:10.1017/S1479262116000198
- Amin A, Ghouri N, Ali S, Ahmed M, Saleem M and Qazi J. 2017. Identification of new spectral signatures associated with dengue virus infected sera. *Journal of Raman Spectroscopy*: DOI 10.1002/jrs.5110

Publications in IF National journals:

- Khan, T and Qazi, J. 2015. "Measels hectic in Pakistan: Upsurge versus the lurking vaccination." *J Pak Med Assoc* 65(2): 213-214
- Saqib, S., Khan M.Z., Gardyzi, S.I.S.H and Qazi, J. 2016. Prevalence and epidemiology of blood borne pathogens in health care workers of Rawalpindi/Islamabad. *Journal of Pakistan Medical Association* 66: 170-173

Administrative jobs/roles performed in Department/University/Institute

Library in charge
(Department)

In charge students affairs
(Department)

Focal person for PM laptop scheme
(Department)

Meeting coordinator
(Department)

Member admission committee
(Department)

Member BS curriculum committee
(Department)

Member sports committee
(University)

Worked as Hostel In charge at Ladies hostel of National Institute for Biotechnology and Genetic Engineering (NIBGE)

Titles of M-Phil Thesis produced under supervision:

1. Biotyping of *B. tabaci* using mtCO1 gene
2. Molecular characterization of potato leaf roll virus (PLRV) grown in Pakistan
3. Whitefly biotyping from five weed species
4. Characterization of whitefly biotypes from ornamental plants
5. Diversity and phylogeny of Geminivirus associated alpha satellites in Pakistan
6. Prevalence of blood borne viruses in health care workers of district Malakand
7. Prevalence of blood borne viruses in health care workers of Rawalpindi district
8. Amplification and characterization of Begomovirus associated satellites in Malvestrum
9. Characterization of Raman spectra produced by serum positive for Dengue infection
10. Molecular epidemiology of hepatitis B virus in selected Baloch population
11. Hepatitis viruses in IDPs of north wazeristan residing in district Bannu
12. Characterization of Raman spectra produced by dengue infected serum samples
13. Molecular epidemiology and phylogeny of HDV in Pakistan
14. Optimization of primer based genotyping of HCV in Pakistani population
15. Identification of new spectral signatures associated with dengue virus infected sera
16. Homology modeling of BBTv proteins and amino acid sequence comparisons with Pakistani isolate
17. Molecular characterization and phylogenetic analysis of genome components of Pakistani isolates of BBTv
18. Geographic distribution of HCV genotypes in areas of Punjab and KP
19. The Impact of storage temperature on HCV RNA Detection by TaqMan Real time PCR
20. First report of *B. tabaci* from Afghanistan
21. Genotypic diversity of HCV in various areas of Pakistan
22. Amplification of BBTv genome components using RCA and PCR
23. Vector enabled amplification of begomovirus genome components
24. FTIR spectroscopic analysis of HCV infected human sera