

TARIQ KHAN

Email

tariqkhanbio@gmail.com

tariqkhan@uom.edu.pk

EDUCATION:

2013-2018 Quaid-i-Azam University, Islamabad, Pakistan
PhD Scholar

2016 Mid-Florida Research and Education Centre (MREC), University of
Florida, USA
Short-term scholar (HEC, IRSIP)

2007-2011 University of Malakand, Chakdara Dir (L), Pakistan
Bachelors (Hons.) in Biotechnology
BS thesis: "Hepatitis C therapies: A chronology of Past, Present and Future
Therapies" Supervisor: Dr. Nisar Ahmad
Cumulative percentage: 82.3 (Merit Certificate)

WORK: Lecturer at the Department of Biotechnology, University of Malakand
Chakdara, Dir Lower.
Joining date: January 12, 2016

RESEARCH EXPERIENCE:

1. 4.5 years Research experience as Research scholar at the Department of Biotechnology, Quaid-i-Azam University Islamabad.
2. Research Assistant in Pakistan Academy of Sciences funded project.

PUBLICATIONS:

Journal Aricles:

1. Riaz R, Abbasi BH, Hashmi SS, Nazir M, **Khan T**. *Melatonin-stimulated biosynthesis of antimicrobial ZnONPs by enhancing bio-reductive prospective in callus cultures of Catharanthus roseus var. alba*. Artificial Cells, Nanomedicine, and Biotechnology. **2018**. {**IF = 5.6**}.
2. Ali M, **Khan T**, Fatima K, Ali QA, Ovais M, Khalil AT, Ullah I, Raza A, Shinwari ZK, Idrees M. *Selected hepatoprotective herbal medicines: Evidence from ethnomedicinal applications, animal models, and possible mechanism of actions*. Phytotherapy research. **2018**. p1–17. {**IF=3.092**}.
3. **Khan T**, Abbasi BH, Khan MA, and Azeem M. *Production of biomass and useful compounds through elicitation in adventitious root cultures of Fagonia indica*. Industrial crops and products. **2018**. p451-457. {**IF 3.3**}.
4. Sumaira, **Khan T**, Abbasi BH, Afridi MS, Tanveer F, Ullah I, Bashir S and Hano C. *Melatonin-enhanced biosynthesis of antimicrobial AgNPs by improving the phytochemical reducing potential of a callus culture of Ocimum basilicum L. var. thyrsoiflora*. RSC Advances. **2017**. p38699-38713. {**IF 3.1**}.
5. Saeed S, Ali H, **Khan T**, Kayani W, and Khan MA. *Impacts of methyl jasmonate and phenyl acetic acid on biomass accumulation and antioxidant potential in adventitious roots of Ajuga bracteosa Wall ex Benth., a high valued endangered medicinal plant*. Physiology and Molecular Biology of Plants. **2017**. {**IF 1.3**}.
6. Mashwani ZR, Khan MA, **Khan T**, and Shams AN. *Application of Plant terpenoids in the synthesis of Colloidal Silver Nanoparticles*. Advances in Colloid and Interface Science. **2016**. pp 1-12 {**IF 7.8**}
7. **Khan T**, Abbasi BH, Khan MA and Shinwari ZK. *Differential effects of thidiazuron on production of anticancer phenolic compounds in callus cultures of Fagonia indica*. Applied Biochemistry and Biotechnology. **2016**. {**IF 1.6**}.
8. **Khan T**, Abbasi BA, Khan MA and Shams AN. *Why Pakistan is a threat to the Polio Endgame strategic plan 2013-2018? A look into the past decade*. Editorial. International Journal of infectious diseases. **2016**. {**IF 2.159**}

9. Mashwani ZR, **Khan T**, Khan MA and Shams AN. *Synthesis of plant based silver nanoparticles as potent antimicrobial agents: Current status and future prospects*. Applied Microbiology and Biotechnology. **2015**. pp 1-12 {**IF 3.337**}
10. Adil M. **Khan T**. and Abbasi BH. *Interactive effects of melatonin and light on growth parameters and biochemical markers in adventitious roots of Withania somnifera L*. Plant cell tissue and Organ culture. **2015**. { **IF 2.125**}
11. **Khan T**, Qazi J. *Measles hectic in Pakistan; Upsurge versus the lurking vaccination*. Journal of Pakistan Medical Association. **2015** Feb;65(2):213-4. {**IF 0.403**}
12. **Khan T**, Qazi J. *Measles outbreaks in Pakistan snatched hundreds of lives: Causes of the tragedy and future implications*. Journal Epidemiology Reports. **2014**.
13. **Khan T**, Qazi J. *Hurdles to the global antipolio campaign in Pakistan: an outline of the current status and future prospects to achieve a polio free world*. Journal of Epidemiology and Community Health. **2013**. {**IF 3.89**}
14. Ali A, Nisar M, Idrees M, Ahmad H, Hussain A, Rafique S, **Khan T**. *Prevalence of HBV infection in suspected population of conflict-affected area of war against terrorism in North Waziristan FATA Pakistan*. Infect Genet Evol. **2012** Dec;12(8):1865-9. {**IF 2.8**}
15. **Khan T**. *Hepatitis C therapies: A chronology of Past, Present and Future Strategies*. Journal of GHR. **2012**;1(11):289-96

Submitted articles:

1. **Khan T**, Abbasi BH, and Ali GS. *Synergistic enhancement of antimicrobial silver nanoparticles synthesis through Melatonin and Thidiazuron supplementation in callus cultures of Fagonia indica*. RSC Advances. **Under Review**.
2. **Khan T**, Abbasi BH, Iqar I, and Shinwari ZK. *Molecular characterization and control of endophytic bacterial contaminants during in vitro cultures of Fagonia indica*. 3 Biotech. **Accepted**.
3. **Khan T**, Abbasi BH, Ali GS. *Glucose-controlled biomass and antioxidant potential in callus cultures of Fagonia indica*" Industrial Crops and Products. **Under Review**.

Conference papers:

1. **Khan T**, Abbasi BH, Shinwari ZK, *Poliovirus Surveillance in Pakistan: A Call for Enhancement*. Middle East and South Asia Conference on Epigenetics and Genomics of Infectious Diseases. Royal Scientific Society, Amman, Jordan **March 7-8, 2016**.

CONFERENCE PRESENTATIONS:

1. Presentation "*Hurdles to the global antipolio campaign in Pakistan: an outline of the current status and future prospects to achieve a polio free world*" in the 3rd Annual Public Health conference "Social determinants of health: Issues and challenges in Pakistan" Organized by Health Services Academy, Islamabad. **December 3-5, 2012.**
2. Presentation "*A general focus on the major vaccine-preventable diseases, polio and measles: an outline of the current status*" in the 5th Annual Research Conference, "Today's Research Tomorrow's Health". Organized by Office of Research Innovation and Commercialization (ORIC), Khyber Medical University, Peshawar. **February 14-16, 2014.**
3. Poster presentation "*Poliovirus surveillance in Pakistan; a call for enhancement*" in the Middle East and South Asia Conference on Epigenetics and Genomics of Infectious Diseases. Organized by Royal Scientific Society, Amman, Jordan. **March 7-8, 2016.**
4. Poster Presentation "*The Declining polio cases; Pakistan needs to Maintain the progress*" in the Conference to promote Safe and Secure Science to Middle East, South east and South Asia Organized jointly by National Academy of Sciences, USA and Academy of of Sciences, Malaysia in Kuala Lumpur **February 5-11, 2018.**
5. Oral Presentation "Strategies for the enhancement of commercially important secondary metabolites in cell cultures of *F. indica*. in the conference "Plants; from food to Phytomedicine" Jointly organized by University of Malakand and University of Sarghoda. **May 03-04, 2018.**

CONFERENCES/TRAININGS ATTENDED:

1. 3rd Annual Public Health conference "Social determinants of health: Issues and challenges in Pakistan" Organized by Health Services Academy, Islamabad. **December 3-5, 2012.**
2. Young Pakistani Thinkers Assembly. Organized by Young Pakistani Thinkers, Islamabad. **June 2013.**
3. International conference on "Applications of Molecular Biology to Medicine and Agriculture" Organized by Department of Biochemistry, Quaid-i-Azam University Islamabad. **August 20-22, 2013.**

4. Patent management system and Development of Industrial Academic collaboration. Organized by Institute of Space and Technology, Islamabad. **April 17, 2015.**
5. One-day international nanomedicine symposium “Nanotheronostics; a new concept in imaging and drug delivery”. NORI Islamabad under the Pak-Norway Institutional Cooperation, **November 26, 2015.**
6. One day brainstorming session “**The Future is Now**” for Biotechnology. Organized by the Direcotate of Science and Technology (DosT) and Cecos University Peshawar.
7. Monthly Meeting titled “Making Pakistan Science Conscious” at Pakistan Academy of Sciences. **January 2015-December 2015.**
8. First International DNA Day celebrations/Poster Competition/DNA Model competition funded by the Office of Research, Innovation, and Commercialization at the platform of Scientific society of Biotechnology (SSB). **April 25, 2016.**
9. 3rd International Nanomedicine Symposium (INS-2017) “Nanotheranostics: The Power of Nanomedicine” **November 21, 2017**

WORKSHOPS ATTENDED:

1. Hands-on training workshop on “Advanced Diagnostic Techniques” at Nuclear Medicine, Oncology and Radiotherapy institution (NORI) Islamabad, Pakistan **March 28-31, 2015.**
2. One-day Hands-on workshop on biosafety cabinet at National Institute of genomics and Advanced Biotechnology (NIGAB), NARC Islamabad. **May 20, 2017.**
3. One-Day Workshop on Biosafety and Biosecurity for Scientists, Organized jointly by National academy of young scientists (NAYS), Department of Biotechnology, UOM and Health Security Partners (HSP), USA. **November 15, 2017**
4. 2nd International Workshop on Experimental Biology (IWEB-2017) “Nanotheranostics: From Bench to Bedside and Beyond” **November 22-24, 2017**

CONFERENCES/SEMINARS/WORKSHOPS ORGANIZED:

1. Monthly Meeting titled “Making Pakistan Science Conscious” at Pakistan Academy of Sciences. **January 2015-December 2015.**
2. First International DNA Day celebrations/Poster Competition/DNA Model competition funded by the Office of Research, Innovation, and Commercialization at the platform of Scientific society of Biotechnology (SSB). **April 25, 2016.**

3. One-Day Workshop on Biosafety and Biosecurity for Scientists, Organized jointly by National academy of young scientists (NAYS), Department of Biotechnology, UOM and Health Security Partners (HSP), USA. **November 15, 2017.**
4. 2nd International DNA Day **2018** celebrations/Poster Competition/DNA Model competition funded by the Science Society and the Department of Biotechnology, University of Malakand. **April 25, 2018.**

CERTIFICATIONS

1. Certification and 0.5 Continuing Education Units in recognition of successful completion of course on Bio-risk Management by the Frontline Health Care foundation
2. Professional Certification (PC) of the International Federation of Biosafety Associations (IFBA) in Biorisk management since **January 2018.**

PROFESSIONAL EXPERIENCE

1. Member, Board of Faculty, Faculty of Biological Sciences, University of Malakand **September 02, 2016-September 02, 2018.**
2. Member, Admissions committee, Department of Biotechnology, University of Malakand Since **August 2017.**
3. **Organizer Science Society**, Directorate of Student's Societies, University of Malakand.

REFERENCES:

Prof. Dr. Zabta Khan Shinwari

Chairman

Department of Biotechnology,

Quaid-i-Azam University Islamabad, Pakistan

shinwari2008@gmail.com

Dr. Gul Shad Ali

Assistant Professor

Mid-Florida Research and Education Centre,

University of Florida, USA

gsali@ufl.edu

Dr. Bilal Haider Abbasi

Associate Professor

Department of Biotechnology

Quaid-i-Azam University Islamabad, Pakistan

bhabbasi@qau.edu.pk