

Dr Nadia Batool Zahra
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195-B, Jasmine Block Sector C, Bahria Town, Lahore, Pakistan



Bringing over eight years of diverse experience in academia—spanning academic leadership, teaching, research curriculum design and quality assurance—I am committed to driving innovation and excellence in higher education through strategic program development and transformative learning experiences.

Accomplishments

National Curriculum Review Committee: Member National Curriculum Review Committee of Higher Education Commission, Pakistan for the revision of MS, BS and Associate Degree programs in Biotech.

Establishment of Biotechnology: Established the Department of Biotechnology and its laboratories as founding Chairperson of the department at Qarshi University, Lahore.

Faculty Development Trainings: Designs and conducts faculty training sessions focused on student-centered and experiential learning pedagogies, as well as curriculum development. These trainings aim to enhance teaching effectiveness and promote active, engaging learning environments for students.

Continuous Quality Improvement: As Director Quality, a key responsibility is to design and deliver quality enhancement trainings within the institute to foster a culture of continuous improvement. These trainings are designed under the guidance framework of Higher Education Commission (HEC) and focuses on institutional effectiveness, quality benchmarks, curriculum review, assessment strategies, and leadership development for faculty, staff and management.

Quality & Leadership Management: Developed the institutional quality frameworks with a focus on institutional quality enhancement, policy development, curriculum management and leadership initiatives.

Executive Member QAU Alumni Association (Nominated): As an Executive Member of the alumni association of Quaid-i-Azam University, Islamabad, cultivated a strong professional network, industry linkages and impactful alumni engagement to mobilize resources.

Master Trainer – Pakistan Biological Safety Association (PBSA): Served as a Master Trainer PBSA, leading specialized training sessions for healthcare professionals, researchers, and laboratory personnel across Pakistan. These sessions focused on enhancing national preparedness for biological threats along with a strong emphasis on soft skills such as leadership, communication, and behavioral-based improvement strategies.

Trainer, Health Security Partners (HSP-US): As a trainer for Health Security Partners (HSP), an international development organization, Dr. Zahra contributes to strengthening global health security by building local capacity. HSP focuses on improving health systems in resource-constrained areas worldwide.

International Collaborations: WHO, Geneva (2020–2022): Collaborated on a project with WHO and contributed to the report published by WHO.

WHO, Portugal (2022–2023): Served as a global public health and biotechnology expert in collaboration with WHO's Science Division, contributing to a published report.

University of Cambridge (2019–2020): Dr. Zahra was invited to participate in a collaborative project on *New and Emerging Issues in Bioengineering & Biotechnology* by the Centre for the Study of Existential Risk (CSER) at the University of Cambridge, UK. The project brought together approximately 30 experts from world-renowned institutions, including Harvard, MIT, Oxford, and Cambridge. As the sole participant from Pakistan, Dr. Zahra traveled to Cambridge University in October 2019 to attend an international workshop and to work on the publication.

Advanced Trainings by Foreign Experts (2017–2021): As a lifetime member of the Pakistan Biological Safety Association (PBSA), Dr. Zahra completed several intensive week-long trainings conducted in collaboration with the **National Institutes of Health (NIH), USA**, and **Fogarty International Center, USA**. These trainings covered biosafety, biosecurity, and ethical practices of biotech. She trained under globally recognized experts, including:

- **Tim Trevan** – Co-Founder CHROME Consulting and renowned Biosecurity/Biosafety expert
- **Sean G. Kaufman** – CEO Safer Behaviors, former CDC official.

Presentations at Foreign Platforms (2018): Presented a research paper titled “Genome Editing and Nanoscience: The Arising Debates in Safe Science” at the Regional Conference to Promote Safe & Secure Science in the Middle East, South & Southeast Asia, held in Kuala Lumpur, Malaysia (February 5–9, 2018). This prestigious conference was jointly organized by the U.S. National Academy of Sciences, Engineering, and Medicine (NASEM) and the Academy of Sciences Malaysia.

Contributions to Qarshi Industries (2019): Contributed to the development of Pakistan’s first-ever Pharmacopeia. As a key researcher, Dr. Nadia Zahra provided intellectual support, research expertise, and scientific contributions to advance the Qarshi Pharmacopeia.

Volunteering for International Organizations (2012–2017): Actively contributed to multiple international projects as a volunteer researcher and expert. These collaborations involved engaging in scientific diplomacy, risk mitigation, and capacity-building initiatives with esteemed organizations, including:

- The InterAcademy Partnership (IAP)
- The European Union Chemical, Biological, Radiological, and Nuclear Risk Mitigation Centres of Excellence Initiative (EU CBRN CoE)
- Landau Network Centro Volta (LNCV), Italy

Knowledge Streams & Soliton Technologies: Contributed as a collaborator on projects for different industries e.g Knowledge Streams, Soliton Technologies that specializes in AI and data analytics for health biotech.

LUMS Advisory Team (2020–2021): Partnered with an advisory team at LUMS, to design and implement academic program management strategies, with a focus on industry-driven consortium partnerships.

QU Act Amendment (2020): Contributed to the QU Act Amendment team by preparing and reviewing documentary evidence.

Work Experience

Dates	Feb 2023- March 2025
Current Position	Associate Professor Biotechnology, Director QEC
Name & address of employer	Qarshi University, Lahore, Pakistan.
Type of business or sector	Teaching & Research, Administration, QEC

Courses Offered Food Biotechnology, Industrial Biotechnology, Agriculture Biotechnology, Health Biotechnology, Pharmaceutical Biotechnology, Entrepreneurship, Innovation & Technology, Microbiology & Immunology, Molecular Biology.

Director Quality Enhancement Cell (QEC)

- Preparation & presentation of University's Annual Report to Board of Governors & Board Advisory Council
- Member strategic plan committee
- Preparation & implementation of internal quality policy & HEC's revised quality assurance framework (PSG 2023)
- Focal person PQR & HES
- Submission of cases to HEC for MS/MPhil/PhD NOC's
- Preparation & submission of HEC's YPR for QEC scorecard & HES data
- Student, faculty feedbacks and miscellaneous
- Convener curriculum review committee

Dates Jan 2018- Feb 2023

Position **Assistant Professor, Manager ORIC**

Name & address of employer Qarshi University, Lahore, Pakistan

Type of business or sector Teaching & Research, Administration, ORIC
Founding Head of Department of Biotechnology at Qarshi University (2019- 2022).

- Feasibility studies and curriculum development for BS Biotechnology, BS Biochemistry, BS FS&T, BS Biosciences & MS Biotechnology, convener/member BoS, BoF, Academic Council
- Establishment of life sciences laboratories
- Development of strategic plans

Office of Research, Innovation & Commercialization (2018- 2023)

- MoU's with Govt organizations/universities
- Development of ORIC policies
- Seminars/workshops for faculty development program
- Jury member for various start-up competitions
- Workshops on entrepreneurial development

Courses Offered Classical Genetics, General Biology, Bioinformatics, Bioethics & Biosafety, Ethical & Legal Issues of Genetics/Bioinformatics, Genetic Resource Conservation, Ecology, Biodiversity & Evolution.

Dates Aug 2017- Dec 2017

Position **Senior Research Associate**

Name & address of employer Qarshi University, Lahore, Pakistan

Type of business or sector Administration (Office of Examinations)
Preparation of result and transcripts
Superintendent Annual Exams for Eastern Medicine & Surgery (2019-2024)

Dates 2016 - 2017

Visiting Faculty

Quaid-i-Azam University, Islamabad, Pakistan.

Dates	July 2012 – Oct 2013
Position	Research Associate
Name & address of employer	Chairman Department of Biotechnology, Quaid-i-Azam University Islamabad, Pakistan.
Type of business or sector	Research, Grant proposal writing (research projects & workshop/conferences) and report writing, Upgradation of laboratories.

Education

Dates	2012-2017
Title of qualification awarded	PhD Biotechnology Quaid-i-Azam University, Islamabad, Pakistan & University of Florida, US.
Topic of thesis	DNA Barcoding and Phylogenetic Assessment of Family Lamiaceae from Pakistan based on Plastid and Nuclear Sequence Data. (Supervisor: Dr Zabta Khan Shinwari)
Dates	2009 -2011
Title of qualification awarded	MPhil Plant Biochemistry & Molecular Biology Quaid-i-Azam University, Islamabad, Pakistan.
Topic of thesis	Systematic Characterization of Selected <i>Euphorbia</i> Species Based on Molecular Analysis.
Division/Grade/CGPA	4.4/5

Dates	2005 – 2007
Title of qualification awarded	M. Sc. Biology PMAS Arid Agriculture University Rawalpindi, Pakistan.
Division/CGPA	3.13/4

Dates	2002 – 2004
Title of qualification awarded	B. Sc. (Botany, Zoology & Psychology) University of the Punjab, Lahore, Pakistan.
Division/CGPA	Ist Div.

Dates	2000 – 2002
Title of qualification awarded	HSSC (Pre – Medical) Govt. Postgraduate College for Women, Jhelum, Pakistan.
Division/CGPA	Ist Div.

Dates	1998 – 2000
Title of qualification awarded	SSC (Biology, Physics, Chemistry & Maths) F. G. Girls Public Secondary School Jhelum Cantt, Pakistan.
Division/CGPA	Ist Div.

Foreign Trainings/Fellowships

Academic Visitor University of Cambridge, UK funded by University of Cambridge (2019).

Academic Visitor Sunway University, Malaysia funded by National Academies of Sciences, Engineering & Medicine (NASEM), US (2018).

Visiting Researcher University of Florida, US funded by HEC (2015-2016).

Visiting Fellow Ohio University, US through Pak-US project funded by State Department US (2012).

MPhil Merit Scholarship by Quaid-i-Azam University, Islamabad, Pakistan.

PhD Indigenous Fellowship by Higher Education Commission, Pakistan.

IRSIP by Higher Education Commission, Pakistan.

- Memberships**
- Member Selection Board (subject expert), University of Sialkot (2021).
 - Member BoS, Department of Biology, Lahore Garrison University (2022-to date).
 - Member panel of External Examiners for MPhil viva, Department of Biology, Lahore Garrison University (2021-to date).
 - Member panel of External Examiners for undergraduate viva, SDSC, GCU Lahore (2022- to date).
 - Member panel of External Examiners for postgraduate viva, UCP, Lahore (2023- to date).
 - Member Academic Council, QU (2023- to date), Member VC's consultative council.
 - Member/Secretary BoS & BoF, Department of Biotechnology, QU (2020- to date).
 - Life-Time Member Pakistan Biological Safety Association (PBSA).
 - Member Botanical Society of America (BSA).
 - Member Pakistan Botanical Society (PBS).

Research Interests DNA analysis, DNA Barcoding, Molecular Biology, Molecular Phylogenetics, Global Health, Health Biotechnology, Bioengineering, Biosafety & Biosecurity, DURC, Responsible Conduct of Life Sciences.

- Publications (Research Articles)**
1. Zabta Khan Shinwari, Khansa Jamil and **Nadia Batool Zahra**. 2014. Molecular Systematics of Selected Genera of Family Fabaceae. Pak. J. Bot., 46(2): 591-598. (IF: 1.16, W category)

2. **Nadia Batool Zahra**, Mushtaq Ahmad, Zabta Khan Shinwari, Muhammad Zafar and Shazia Sultana. 2014. Systematic Significance Of Anatomical Characterization In Some Euphorbiaceous Species. Pak. J. Bot. 46(5):1653-1661. (IF: 1.16, W category)
3. Aziz-ul-Ikram, **Nadia Batool Zahra**, Zabta Khan Shinwari and Muhammad Qaisar. 2015. Ethnomedicinal Review of Folklore Medicinal Plants Belonging to Family Apiaceae of Pakistan. Pak. J. Bot., 47(3): 1007-1014. (IF: 1.16, W category)
4. Xiang Chun-lei, Dong Hong-jin, HU Gua-xiong, **Nadia Batool Zahra** and Tsuneo Funamoto. Cytology of *Dicranostigma* and *Glaucium* (Papaveraceae) from China. 2015. Plant Diversity (formerly Plant Diversity and Resources). 37(6): 721-726. (IF: 3.3, X category)
5. Waseem Safdar, Haroon Ahmed, Nazish Bostan, **Nadia Batool Zahra**, Hafiz Rizwan Sharif, Junaid Haider and Shabbar Abbas. 2016. Comparative analysis of nine different small heat shock protein gene promoters in *Oryza sativa* L. subsp. *Indica*. Plant. Syst .Evol. DOI 10.1007/s00606-016-1325-3. (IF: 1.64, W category)
6. **Nadia Batool Zahra**, Zabta Khan Shinwari and Muhammad Qaiser. 2016. DNA Barcoding: A Tool For Standardization Of Herbal Medicinal Products (HMPs) Of Lamiaceae from Pakistan. Pak. J. Bot., 48(5): 2167-2174, 2016. (IF: 1.16, W category)
7. **Nadia Batool Zahra** and Zabta Khan Shinwari (2016) What is done and what has to be done in Lamiaceae, a review of phylogenetics. PeerJ Preprints 4:e2277v1 <https://doi.org/10.7287/peerj.preprints.2277v1>. (IF 3, W category)
8. Shinwari Z.K., S.A.Jan, A.T.Khalil, A. Khan, M. Ali, M. Qaiser And **N.B. Zahra** 2018 Identification and Phylogenetic Analysis of Selected Medicinal Plant Species from Pakistan: DNA Barcoding Approach. Pak. J. Bot., 50(2): 553-560 (IF: 1.16, W category)
9. **Zahra N. B.** 2019. DNA Barcoding of Herbal Medicinal Products, A Challenging Task. Proceedings of the Pakistan Academy of Sciences: Pakistan Academy of Sciences B. Life and Environmental Sciences 56 (3): 11–15 (Special Issue, 2019, Y category)
10. Khan I., Z. K. Shinwari, **N. B. Zahra**, S. A. Jan, S. Shinwari and S. Najeebullah. 2020. DNA Barcoding and Molecular Systematics of Selected Species of Family Acanthaceae. Pak. J. Bot., 52(1), DOI: [http://dx.doi.org/10.30848/PJB2020-1\(27\)](http://dx.doi.org/10.30848/PJB2020-1(27)) (IF: 1.16, W category)

11. Luke Kemp, Laura Adam, Christian R. Boehm, Rainer Breitling, Rocco Casagrande, Malcolm Dando, Appolinaire Djikeng, Nicholas G. Evans, Richard Hammond, Kelly Hills, Lauren A. Holt, Todd Kuiken, Alemka Markotić, Piers Millett, Johnathan A. Napier, Cassidy Nelson, Seán S ÓhÉigeartaigh, Anne Osbourn, Megan J. Palmer, Nicola J. Patron, Edward Perello, Wibool Piyawattanametha, Vanessa Restrepo-Schild, Clarrisa Rios-Rojas, Catherine Rhodes, Anna Roessing, Deborah Scott, Philip Shapira, Christopher Simuntala, Robert D.J. Smith, Lalitha S. Sundaram, Eriko Takano, Gwyn Uttmark, Bonnie C. Wintle, **Nadia B. Zahra**, William J. Sutherland. 2020. Bioengineering horizon scan 2020. eLife ;9:e54489. DOI: <https://doi.org/10.7554/eLife.54489> (IF: 8.7, W category)
12. Anam Munawar, A. M. Khalid, **Nadia Batool Zahra**, Naveed Akhtar Shad, Ammad Shafeeq, Aamir Razaq. Tetracycline Biomimetic Imprinted Beads Cast as a Label-free Sensing Constituent in different transduction systems. Applied Nanoscience. 2022. <https://doi.org/10.1007/s13204-021-02266-9> (IF: 3.8, W category)

Book Chapters

1. Abeer Khan, Jafar Ali, Syed Umair Ullah Jamil, **Nadia Zahra**, T.B. Tayaba, Muhammad Javed Iqbal, Hassan Waseem. Removal of Micropollutants. Eds: Muhammad Zaffar Hashmi, Shuhong Wang, Zulkfil Ahmed In Advances in Pollution Research, Environmental Micropollutants, Elsevier. 2022. Pg 443-461 ISBN 9780323905558. <https://doi.org/10.1016/B978-0-323-90555-8.00012-X>.

International Reports

1. World Health Organization. (2022). Emerging trends and technologies: a horizon scan for global public health. World Health Organization. <https://apps.who.int/iris/handle/10665/352385>. License: CC BY-NC-SA 3.0IGO
2. World Health Organization. (2023). 2023 emerging technologies and scientific innovations: a global public health perspective. World Health Organization. <https://www.who.int/publications/i/item/9789240073876>. ISBN: 978-92-4-007387-6

Genes Reported

- There are 115 gene sequences reported from different plants and submitted to GenBank (NCBI) database (Data is publicly available online).

NRPU 2024-2025 (Submitted)

- Quality assurance & standardization of HMP's and food products.

FYP's Supervised

- Cloning and expression of gene encoding multi epitope vaccine candidate against SARS-CoV-2.
- Investigating the genetic mutations and inheritance patterns associated with consanguineous non-syndromic deafness in Punjab, Pakistan.
- Detection of chromosomal abnormalities by using STR markers in Pakistan's population.
- Investigating the genetic mutations and inheritance patterns associated with consanguineous syndromic deafness in Punjab, Pakistan.
- DNA isolation of selected medicinal plants for species authentication through DNA barcoding.

Conferences/Workshops/ Trainings

1. Participated in International science conference on “Utilization of modern agricultural technology in changing environmental perspectives” 21-23 July 2010 at University of AJK, Rawalakot. Pakistan.
2. Participated in 2nd International conference of Plant Sciences and 11th National Conference of Pakistan Botanical Society Feb. 22-24, 2011 at GCU-Lahore. Pakistan.
3. Participated in International Conference “Climate Change: Opportunities and Challenges” 9-11 May, 2012 at NUST, Islamabad. Pakistan.
4. Organizer 12th NATIONAL & 3rd INTERNATIONAL CONFERENCE OF BOTANY. Organized By Pakistan Botanical Society & Quaid-i-Azam University Islamabad, Pakistan. September 1st – 3rd 2012. Pakistan.
5. Participated In International Workshop on High Altitude Ecosystems And Climate Change. September 3-5, 2012 at COMSTECH, Islamabad. Pakistan.
6. Participated in 10th International Bhurban Conference on Applied Science & Technology, held at Center of Excellence in Science & Applied Technologies, Islamabad Pakistan (National Centre for Physics) 15-19 Jan., 2013.
7. Oral presentation entitled “We & Climate Change” in International conference on Plants, People & Climate at NUST 5-7 Nov, 2013.
8. Organizer/Participant "Symposium on Application of Frontier Technologies in Conserving Biodiversity and Studying Climate Change", at SBB University Sheringal, Dir, 29-30 Nov. 2013. Pakistan.
9. Attended a special talk on Synthetic biology in relation to infectious diseases & dual use issues, at Pakistan Academy of Sciences. Feb. 13, 2014. Pakistan.
10. **Organizer/Participant of International Workshop on ‘Raising Awareness on Dual Use Concerns in Biotechnology at Quaid-i-Azam University, under EU CBRN CoE PROJECT 18 International Network of Universities and Institutes for Raising Awareness on Dual Use Concerns in Bio-technology. March 25, 2014. Pakistan.**
11. Participated in one day conference “Celebration of Biodiversity day”, organized by SBBU, Upper Dir, at the Chitral Campus on May 22, 2014. Pakistan.
12. **Organizer/Participant international workshop on “Strengthening the Culture of Responsibility: Dual Use Research & Biosecurity” at SBBU, Upper Dir, at the Chitral Campus on May 23-24, 2014. Pakistan.**
13. Participated in 4th International and 13th National Conference of Botany, Aug. 27-30th, 2014 at SBBU-Sheringal, Dir, Pakistan.
14. Participated in International Conference on Himalayan Biodiversity And Climate Change: Challenges And Opportunities, October 20-21, 2014. University Of AJK, Muzaffarabad.
15. **Participated in Genomics showcase, 2015 at ICBR, University of Florida.**
16. **Volunteered in Earth Day 2015 at University of Florida, US.**

17. Participated in 3-day International Workshop on “*Challenges in Water Security to Meet the Growing Food Requirement*” Jan 19-20, 2016 organized by the Pakistan Academy of Sciences and Association of Academies and Societies of Sciences in Asia (AASSA), Islamabad, Pakistan.
18. Organizer/Participant One day seminar on “Modern trends in biomedical research” Feb 3, 2016 at Department of Biotechnology, Quaid-i-Azam University, Islamabad, Pakistan.
19. Participated in “Making Pakistan Science Conscious: Past, Present and Future” at Pakistan Academy of Sciences, February 17, 2016.
20. Organizer/Participant of “Regional Workshop on Biosafety and Biosecurity in life sciences” at PAS April 26-28, 2016, Islamabad.
21. Attended National Seminar on “South-South Cooperation in the Framework of Sustainable Development Goals” on September 22, 2016 at PAS, Islamabad.
22. Organizer/Participant Joint Pakistan-U.S. Workshop on Strengthening and Sustaining a Network of Public and Animal Health Clinical Laboratories in Pakistan. Sep. 27-29, 2016 at Pakistan Academy of Sciences, Islamabad.
23. Organizer International Conference on “CPEC Natural Hazards Risk Assessment and Mitigation” and “Silk Road Disaster Risk Reduction” on 17-18 July, 2017 at PAS, Islamabad.
24. Participated in Pakistan Biological safety Association (PBSA) & Fogarty/NIH (USA) Master Trainer Workshop July 30- Aug 3, 2017
25. Participated in “Wet Workshop” organized by Pakistan Biological safety Association and Fogarty/NIH USA September 10-14 at Ramada Hotel, Islamabad.
26. Participated and Presented the paper entitled “Genome editing and Nanoscience; The arising debates in Safe Science” at the “Regional Conference to Promote Safe & Secure Science in the Middle East, South & Southeast Asia, Kuala Lumpur, Malaysia” 5-9 Feb, 2018.
27. Trainer at “Train the Trainer Workshop” held March 25-29, 2018 at Margala Hotel, Islamabad organized by PBSA and NIH USA.
28. Participated in Round Table to explore constraints on work opportunities for PhDs 11-12 Jan, 2019 at HEC, Islamabad.
29. Participated & Presented “Vaccine Research” in the Workshop on “Responsible Conduct in the Life Sciences” 4-8 Feb, 2019 at COMSTECH, Islamabad organized by PBSA and NIH USA.
30. Participated in the Workshop on “Influence Without Authority” 17 Feb, 2019 at University of Lahore, Lahore organized by PBSA and Fogarty International NIH USA.
31. Delivered talk entitled “DNA Barcoding of Herbal Medicinal Products: A Challenging Task” in “Regional conference on Complementary Medicine as an Answer to Challenges Faced in Achieving Sustainable Development Goals in Health” at Pakistan Academy of Sciences, Islamabad (August 19-21, 2019) partially sponsored by Qarshi Industries
32. Participated in workshop on “Emerging issues in Bioengineering” organized by University of Cambridge at University of Cambridge, UK.
33. Participated in “One Health Research Symposium” jointly organized by National Academies of Sciences USA and PAS, Isb. Nov 17, 2019.

34. Participated in Two day International Training Workshop on Scientific Paper & Patent Writing Organized by ICESCO, Rabat, 14-15 Dec 2020.
- 35. Participated in FRPMC-HSP International Biorisk Management Virtual Training for Healthcare and Laboratory professionals in the light of Covid-19 pandemic organized by FRPMC and Health Security Partners April 5-13, 2021.**
- 36. Participated in Virtual Biorisk Management Conference organized by NIH Fogarty (US) and PBSA June 4-5 2021.**
- 37. Facilitator and participant Virtual workshop on Sharing Pakistani experiences in developing and implementing good clinical laboratory practices for Human and Animal health organized by US National Academies of Sciences, Engineering, Medicine and PAS on June 21-22, 2021**
- 38. Oral presenter on Digital Health & Telemedicine in 3rd International Conference on Environment & Sustainable Development (ICESD, 2021) Sept 13-14, 2021 at GCU Lahore**
- 39. Participated in iGEM safety and security workshop (online) on Jan 14, 2022 organized by iGEM Foundation, US**
- 40. University-Industry linkages roundtable organized by HEC and LCCI on Jan 22, 2022 as representative ORIC at LCCI, Lahore.**
- 41. Organized a FDP Introductory workshop on OBE at QU on July 1, 2022**
- 42. Participated as a Jury member in National Startup Championship 2022 organized by APSUP on Aug 18, 2022 at Expo Centre Lahore**
43. Organized Virtual Open House for Biotechnology on Sep 4, 2022
44. Participated in online international training workshop on managing S & T parks on Sept 7-8, 2022 organized by COMSTECH- Pardis Tech Park Iran-ICCBS.
45. Member Organizing Committee for QU Orientation Fall 2022
- 46. Participated in One day CPD training for Director ORICs at University of Punjab organized by PHEC on Oct 21, 2022.**
47. Attended Hepatitis awareness seminar at QU organized by DEM, QU and The Health Foundation on Dec 1, 2022

- 48. Participated in Online Roundtables on Global Health Foresight Scan organized by WHO on Nov 14-17, 2022**
49. Attended a seminar on People Management at QU on Dec 7, 2022
- 50. Organised & participated in 2- day Entrepreneurial Development Workshop at QU on 15 & 22 Dec, 2022**
- 51. Participated in iGEM safety and security workshop 2022 (online) on Jan 5, 2023 organized by iGEM Foundation, US**
- 52. Participated online in Biorisks, Biosecurity & Biological Disarmament Conference 2023 organized by United Nations Institute for Disarmament Research (UNIDIR), United Nations Office for Disarmament Affairs (UNODA) & World Health Organization (WHO) on July 4-5, 2023.**
- 53. Participated in the seminar on the role of ORICs in HEI's at Qarshi University, July 11, 2023.**
- 54. Participated in the training on Ranking of HEI's organized by HEC, Lahore on July 25, 2023.**
- 55. Participated in the 2- day CPD training for Director QEC's organized by PHEC at Arfa Karim Software Technology Park, Lahore on Aug 9-10, 2023.**
- 56. Delivered a guest lecture on Business Innovations for Healthcare under Coach Capacity Building Program on Aug 17, 2023 at Superior University, Lahore.**
- 57. Attended panel discussion on Accelerating Entrepreneurship through innovation & commercialization by SEE Pakistan Expo 2023.**
- 58. Participated in training session on the Undergraduate Education Policy 2023 organised by HEC, Lahore on Sep 08, 2023.**
- 59. Presented QU's quality assurance framework in Faculty Development Workshop at QU on Sep 25-26, 2023.**
- 60. Participated in All Punjab Universities Innovation Expo 2023 organised by PHEC on Nov 20, 2023.**
- 61. Resource person Capacity building workshop on Biosafety & Biosecurity organized by Health Security Partners, US and NIH, Pakistan on Dec 5-7, 2023 at Luxus Grand Hotel, Lahore.**

62. Curriculum launch of Bachelor of Engineering Technology in Information Security organized by NCT at GCU, Lahore.
- 63. External Jury member for Molecular Models & Poster Competition at UCP, Lahore on Feb 6, 2024.**
64. Presented QEC Measures 2023 in Faculty Development Workshop on Feb 12, 2024.
65. Participated in three-day training for Director QEC's on PSG 2023 organised by QAA-HEC at FCCU, Lahore on April 24-26, 2024.
- 66. Participated in National Curriculum Review Committee (NCRC) for Biotechnology organized by HEC, Lahore on May 15-16, 2024.**
67. Participated in International Conference on Accreditation & Internationalization in South Asian HEI's organized by HEC & FAST-NUCES.
68. Participated in QS insights for Pakistani Universities and QSWUR award ceremony at UoL on July 10, 2024.
- 69. Resource person for summer certification course on Integrated Biotech Practices organized by Department of Biotechnology, QU on July 22- Aug 1, 2024.**
- 70. Evaluator SEE Pakistan 2024 regional round Lahore at UoL on July 20, 2024.**
- 71. Participated in 2-day faculty development training on use of generative AI organized by PHEC at UVAS, Lahore Sep 3-4, 2024.**

Online Webinars

1. The safer sacrifice 'Eid ul Adha', June 2019
2. WHO Lab Biosafety Manual, July 2019
3. Safety, Science and Workplace Harassment, Aug 2019
4. Laboratory Emergency Preparedness and Response, Oct 2019
5. Antimicrobial Resistance, Nov 2019
6. Biosafety, Out of Box, Nov 2019
7. The SOP & Laboratory Safety, Nov 2019
8. Clinical Containment for Covid 19 in Pakistan, 15-23 April, 2020
9. Personal Protective Equipment for Covid 19, April 15, 2020
10. Controlling Covid 19 Fear and Outrage, April 16, 2020
11. Ideas for Kids & Parents at Home during Covid 19, April 18, 2020
12. Taking Care of Yourself During Covid 19, April 22, 2020
13. Covid 19 in Rural Areas & Small Cities, Harvard Medical School, April 29, 2020
14. Covid 19 in People with Diabetes or Obesity, Harvard Medical School, April 30, 2020
15. AASSA-PAS-IAP Webinar Series 2021

References

- Zafar Iqbal Qureshi (ZIQ)
Member BoG, Qarshi University
Ex Provost LUMS
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- Zabta Khan Shinwari
Vice Chancellor FUUAST
Distinguished National Professor & Professor Emeritus
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- Pamela S. Soltis
Distinguished Professor & Curator
Laboratory of Molecular Systematics & Evolutionary Genetics
Florida Museum of Natural History
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