

Curriculum Vitae

SAADIA NASEEM (Ph.D.)

Personal details

Sur name Naseem
Name Saadia
Gender Female
Marital status Married
E-mail saadia.naseem@comsats.edu.pk

Qualification **Ph. D. (Dr. rar. Nat.), Germany (DAAD Alumni)**

Area of Specialization **Biological sciences, Molecular biology, virology**

ORCID: **0000-0003-4464-1486**

Present position **Tenured Associate Professor**
COMSATS University Islamabad
Department of Biosciences
Islamabad
PAKISTAN

Postal address Department of Biosciences, COMSATS University Islamabad, Pakistan

Experience Research and teaching experience 16 years

Career Objective

I am enthusiastic to serve on a leading scientific position, where I may demonstrate and enhance education promotion and development of scientific culture to benefit humanity. The career path is through uplift of trust in science of my country people specifically women.

Research Highlights:

- Elucidation and Characterization of Critical Issues for the Future of Food Safety and Food Security in Pakistan
- Solutions to Plant Diseases through Biocontrol and Biotechnology

- For the Discovery and Management Strategy of First *Papaya ringspot virus* in Pakistan to uplift the economy boost up crop in Sindh province-Pakistan for farmers
- Pioneer work on bacteriophages to contribute in dawn of phage therapy
- Established a state of the art laboratory for systematic study of microbial biota through Culturomics and BIOLOG microbial identification system for enthusiast science graduates for exploration and learning new ideas and techniques in microbiology for continuous discovery of emerging/Novel Microorganisms

EDUCATIONAL QUALIFICATIONS

2011, **Ph. D.** (Biosciences), Leibniz University, Hanover-Germany.

Area of research: Molecular studies on the characterization, kinetics and interactions of Cassava mosaic viruses.

<http://edok01.tib.uni-hannover.de/edoks/e01dh11/654839255l.pdf>

2002-2004, **M. Phil.** (Biotechnology) obtained **CGPA, 4.4/5.00 (88%)** from National Institute for Biotechnology and Genetic Engineering (NIBGE)-Faisalabad/Quaid-i-Azam University-Islamabad, Pakistan.

Area of research: Molecular studies of characterization and genetic instability in bacterial strains.

2001, **M. Sc.** (Biochemistry) obtained **CGPA, 4.00/4.00 (85%)**, **Honored with 1st position** in Faculty of Sciences, University of Agriculture (UAF), Faisalabad-Pakistan.

Area of research: Fate of synthetic chemicals (herbicides) in environment and biological materials.

1999, **B.Sc.** (Chemistry) obtained **1st division** from University of the Punjab-Lahore, Pakistan.

1997, **F.Sc.** (Biology, Chemistry, Physics) obtained **1st division** from Faisalabad Board, Pakistan.

1995, **Matriculation** (Chemistry, Biology, Physics, Mathematics) obtained, **1st division** from Faisalabad Board, Pakistan.

Honors

- ◆ Nomination for HEC Best University Teacher Award 2022 from Department of Biosciences, COMSATS University Islamabad
- ◆ International Foundation for Science (IFS) 2014 Research Grant Chief Investigator

- ◆ Higher Education Commission of Pakistan (IPFP & NRPU) 2011, 2013, 2022 Grant (principal Investigator)
- ◆ National Sciences Linkage Program (NSLP) 2019 Pakistan Foundation for Science Research Grant (principal Investigator)
- ◆ DAAD (German Academic Exchange Service) Alumni
- ◆ DAAD (German Academic Exchange Service) Ph.D. fellowship (2006 - 2010).
- ◆ Participant of 55th Meeting of the **Nobel Laureates** at Lindau-Germany (2005).
- ◆ First position in Faculty of Sciences, M.Sc. Biochemistry in University of Agriculture-Faisalabad (2001).
- ◆ Resource person in COMSTECH Workshop entitled “Advances in Genetic Engineering of Plants” 20-22 Dec. 2011.
- ◆ FAOBMB Fellowship to attend 22nd FAOBMB Conference in 2011
- ◆ Letter of recognition from Executive Director COMSATS
- ◆ Letter of appreciation Proctorial Board, CIIT-Islamabad

Teaching and Technical Experience

Name of Organization	Post held with Pay Scale	Job Profile	Period From to
Department of Biosciences, COMSATS Institute of Information Technology, Islamabad	Tenured Associate Professor	Teaching Fundamentals of Biotechnology; Advance topics in virology; Bacteriophages biology and application; Introductory Molecular Biology; Essentials of Virology; Research Techniques, Systematics and applied microbiology and Biodiversity at Postgraduate (MS & PhD) and undergraduate (BS Bioinformatics and BS Biosciences level)	Present: Tenured Associate professor 22 Dec 2011 to 20 June 2020: Assistant Professor (TTS) 21 June 2011-to- 21Dec. 2011: (Assistant Professor (IPFP)
National Institute for Genomics and Advanced Biotechnology (NIGAB)-NARC, Islamabad	Senior Scientific Officer (SPS-09)	Research in the field of Virology, Molecular Biology, Molecular Diagnostics, and Genomics	Jan. 2010-to-May 2011
PARC Institute of Advance Sciences in Agriculture (PIASA)-NARC, Islamabad	Faculty member in Genomics and Biotechnology	Teaching M. Phil and Ph. D students: Bioinformatics, Microbial Interactions, Techniques in Biotechnology	April 2010-to-March 2011

German Collection of Microorganisms and cell Cultures (DSMZ)- Braunschweig, Germany	DAAD Research Fellow	Ph.D. research work in virology, Molecular biology and bioinformatics	2006 – 2010
National Institute for Biotechnology and Genetic Engineering, Faisalabad-Pakistan	Research associate	Worked in Microbial genomics	2004-2006

Skill Highlights

Student counselling

Curriculum development

Teaching

Research

Project management

Convener and service on faculty committees

Scientific conference and Event organization

Bioinformatics tools and database hands on expertise

Fluent in English and German languages

Extensive experience of Biochemical, Molecular biological, Biotechnological and Microbiological techniques and analysis

Including:

Real Time PCR

Confocal Laser scanning Microscope expertise (Leica TCS SP2)

Gene Cloning: Vector Construction, Gel Elution, Ligation & Transformation

Transformation and tissue culture

Bacterial chromosomal DNA & cccDNA Isolation & Purification

Total genomic DNA and RNA isolation and quantification

Southern, Northern & Western hybridization

FUJI Las 3000 Imager proficiency

Megaplasmid Profiling by Eckhardt Gel Electrophoresis

DNA Finger printing techniques; RFLP / ARDRA

Isolation, identification and maintenance of microbial cultures.

Methods for Systematic and Applied Microbiology

Primer and Quantitative PCR Probe designing using Primer Express 2-ABI, BeaconDesigner 7

Bioinformatics advance softwares including vector NTI, MEGA 7, EzTaxon, BioEdit, Chromas etc.

well conversant with computer applications

Research Projects

Completed:

- “The occurrence and distribution of Papaya ringspot disease in Pakistan and its management strategy” (Higher Education Commission-National Research Projects for Universities-HEC-NRPU) (5.87 million Rs.) (Principal Investigator)
- Use of bacteriophages as biological control agent against Citrus Canker disease in Pakistan” (International Foundation for Science-IFS) (12,000 US\$) (Chief Investigator)
- “Application of next generation sequencing for the study and diagnosis of plant viral diseases in agriculture” (European Cooperation on Science and Technology (e-cost EU2020) Food and Agriculture Cost Action FA1407) (**Management Committee Observer**)
- “Biological and Molecular characterization of viruses infecting papaya (*Carica papaya* L.) in Pakistan” by Higher Education Commission (HEC-Pakistan) (0.5 million Rs.) (Principal Investigator)

On going:

- Phage based biocontrol of bacterial wilt disease in tomato and chillies for sustainable production. (NSLP)(6.08 million PKR) 2019-2022 (Principal Investigator)

List of Publications/presentations (Published)

International/national Journal papers

1. Anwar, S., Naseem, S., & Ali, Z. (2023). Biochemical analysis, photosynthetic gene (psbA) down–regulation, and in silico receptor prediction in weeds in response to exogenous application of phenolic acids and their analogs. Plos one, 18(3), e0277146. (IF 3.752) <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0277146>
2. Bioactivity of medicinal plant extracts from Peganum harmala and Cichorium intybus against Tribolium castaneum Herbst (Coleoptera: Tenebrionidae). 2022. International Journal of Environmental Science and Technology <https://doi.org/10.1007/s13762-022-04121-y>. Received: 14 May 2021 / Revised: 12 January 2022 / Accepted: 13 March 2022. (IF 2.86) extension://mbcgpelmjnpfbdnkbbedlfjmeckpnhha/enhanced-reader.html?openApp&pdf=https%3A%2F%2Flink.springer.com%2Fcontent%2Fpdf%2F10.1007%2Fs13762-022-04121-y.pdf
3. Genetic variability and evolutionary dynamics of atypical Papaya ringspot virus infecting Papaya. PLoS One. 2021; 16(10): e0258298. Published online 2021 Oct 12. doi: 10.1371/journal.pone.0258298 (IF 2.7). [Genetic variability and evolutionary dynamics of atypical Papaya ringspot virus infecting Papaya \(nih.gov\)](https://doi.org/10.1371/journal.pone.0258298)
4. Bioherbicidal activity and Metabolic Profiling of Potent Allelopathic Plant Fractions against Major Weeds of Wheat – Way Forward to Lower the Risk of Synthetic Herbicides. 2021. Accepted in Frontiers in Plant Sciences – Crop and product physiology. (IF 4.4) Front Plant Sci. 2021 Sep 10;12:632390. doi: 10.3389/fpls.2021.632390. eCollection 2021. [Bioherbicidal Activity and Metabolic Profiling of Potent Allelopathic Plant Fractions](https://doi.org/10.3389/fpls.2021.632390)

[Against Major Weeds of Wheat-Way Forward to Lower the Risk of Synthetic Herbicides - PubMed \(nih.gov\)](#)

5. The Response of Culturally Important Plants to Experimental Warming and Clipping in Pakistan Himalayas. 2021. Karimi S, Nawaz MA, Naseem S, Akrem A, Ali H, Dangles O, et al. PLoS ONE 16(5): e0237893. <https://doi.org/10.1371/journal.pone.0237893>. (IF 2.7)
6. Chromatographic and Spectroscopic Fingerprinting of *Ficus carica* and Evaluation of In Vitro Antioxidant Activity. 2021. Intl J Agric Biol 25:677–682 (DoP 25-01-2021) IF0.746.
[http://www.fsublishers.org/published_papers/48455_doi%2015.1716%20IJAB-20-1625%20\(6\).pdf](http://www.fsublishers.org/published_papers/48455_doi%2015.1716%20IJAB-20-1625%20(6).pdf)
7. Naqvi, S.S., Javed, S., Naseem, S. et al. G3 and G9 Rotavirus genotypes in waste water circulation from two major metropolitan cities of Pakistan. Sci Rep 10, 8665 (2020). <https://doi.org/10.1038/s41598-020-65583-z> Published 26 May 2020 (IF 5)
8. Efficient and reproducible somatic embryogenesis and micro propagation in tomato via novel structures -Rhizoid Tubers. 2019. PLOS ONE. 14(5): e0215929. <https://doi.org/10.1371/journal.pone.0215929> (IF 2.74)
9. Rehman, S., Ali, Z., Khan, M., Bostan, N., Naseem, S.* 2019. The Dawn of phage therapy. Reviews in Medical virology. DOI: 10.1002/rmv.2041 (IF 4.221) <https://onlinelibrary.wiley.com/doi/10.1002/rmv.2041>
10. Hyder, S., Naseem, S*, Azhar, S., Ashfaq, M., Ali, Z., Khalid, A., and Inam-ul-Haq, M. 2018. Disease incidence and severity of *Pythium* and *Phytophthora* spp. affecting chilli pepper and tomato crop in Punjab, Pakistan (Philippine Agricultural Scientist), 101:2: 136-147. <https://pas.cafs.uplb.edu.ph/download/disease-incidence-and-severity-of-pythium-spp-and-phytophthora-spp-affecting-chili-pepper-and-tomato-crops-in-punjab-pakistan/> (IF 0.346)
11. Investigations of Structural Requirements for BRD4 Inhibitors through Ligand- and Structure-Based 3D QSAR Approaches. Adeena Tahir 1, Rima D. Alharthy 2, Saadia Naseem 1, Natasha Mahmood 1, Mahmood Ahmed 3 ID , Khuram Shahzad 1, Malik Nadeem Akhtar 1, Abdul Hameed 4, Irfan Sadiq 1, Haq Nawaz 5 and Muhammad Muddassar 1,* *Molecules* 2018, 23, 1527; doi:10.3390/molecules23071527 (IF 3.08) <https://www.mdpi.com/1420-3049/23/7/1527>
12. Ali, Z., Saeed, W., Naseem, S. and Jacobsen, HJ. 2018. Phenotypic Evaluation of transgenic peas (*Pisum sativum* L.) harboring *Atnhx1* demonstrates stable gene expression and conserved morphology in subsequent generations. Turkish Journal of Botany. 42: 150-158. (DOI:10.3906/bot-1705-23). (IF 1) <https://dergipark.org.tr/tr/download/article-file/513229>
13. Sadiq, Asma; Bostan, Nazish; Yinda, Kwe; Sattar, Sadia; Naseem, Saadia. 2018. Rotavirus: Genetics, Pathogenesis & Vaccine advances" Reviews in Medical Virology. e2003. [Rotavirus: Genetics, pathogenesis and vaccine advances - Sadiq - 2018 - Reviews in Medical Virology - Wiley Online Library](#) (IF 3.702)

14. Saeed, W., Naseem, S., Ali, Z. Strigolactones and Their Role in Abiotic Stress Resilience in Plants: A Critical review. 2017 *Frontiers in Plant Sciences* 8:1487. doi: 10.3389/fpls.2017.01487 (IF 3.99)
15. Naseem, S*. Shah, HA and Ali, Z. 2017. First Report on Characterization of Citrus Disease Causing Bacteria and Related Phages Isolated in Pakistan. *International Journal of Agriculture and Biology* 19: 857-864. (IJAB Impat factor 2016: 0.746)
16. Mahmood Ahmed; Anum Khaleeq; Rubina Munir; Rahila Huma; Muhammad Muddassar; Saadia Naseem. 2017. A validated procedure for determination of minerals, micronutrients, non-essential and heavy metals in milk based-infant formulas by AAS after microwave and ultrasound assisted digestion. *Spectroscopy Letters* vol 50, 88-95. <http://dx.doi.org/10.1080/00387010.2017.1287096> (IF 0.885)
17. Naseem, S*. Mehmood, S. and Ali, Z. 2016. Occurrence of *Citrus tristeza virus* in Pakistan: A GIS based approach combining host distribution and disease reports. *Pakistan Journal of Agricultural Sciences* Vol. 53(3), 513-521. <http://www.pakjas.com.pk/papers%5C2601.pdf> (IF 0.597)
18. Naseem, S*. and Winter, S. 2016. Quantification of *African cassava mosaic virus* (ACMV) and *East African cassava mosaic virus* (EACMV-UG) in single and mixed infections of cassava (*Manihot esculenta* Crantz) by using real time PCR. *Journal of Virological Methods* 227: 23-32. (IF 1.508)
19. Ali, Z., Nasrullah, Naseem, S., Haq, M.I., Jacobsen, H.J. 2015. Soil bacteria conferred positive relationship and improved salt stress tolerance in transgenic pea (*Pisum sativum* L.) harboring Na⁺ /H⁺ 2 antiporter. *Turkish Journal of Botany* 39: 962-972. (IF 1.178) <http://journals.tubitak.gov.tr/botany/issues/bot-15-39-6/bot-39-6-7-1505-50.pdf>
20. Haq, I.U., Tahir, M., Hayat, M.I., Khalid, R., Ashfaq, R., Naseem, S., Jamil, M. and Ali, Z. 2015. Bioefficacy of Rhizobacterial Isolates against Root infecting Fungal Pathogens of Chickpea (*Cicer arietinum* L.). *J. Plant Pathology and Microbiology* S3: 011. doi:10.4172/2157-7471. <https://www.omicsonline.org/open-access/bioefficacy-of-rhizobacterial-isolates-against-root-infecting-fungal-pathogens-of-chickpea-cicer-arietinum-1-2157-7471-1000S3-011.pdf>
21. Noshad, Q.Q. et al., and Naseem, S. First Record of Papaya Ring Spot Virus (PRSV) Strain in Malir District Sindh and in Islamabad Pakistan. 2015. *Int. J. Agri. Biol.* 17(2): 399-402. http://www.fspublishers.org/published_papers/21841_.pdf (IF 0.758)
22. Naseem, S. Roofi, A. Zafar, Y. and Hafeez, F.Y. Detection and phylogenetic relationship of Papaya ringspot virus-P in Pakistan. 2013. *J. Plant pathology* 95 (3): 643-645. URL: <http://www.jstor.org/stable/23721590> (IF 0.768)
23. Qureshi, J., Shahid, M., Naseem, S. and Sheikh, M. A. 2002. Studies on the fate of isoproturon applied to control *Phalaris minor* in WHEAT (*Triticum aestivum*). *Pak. J. Anal. And Environ. Chem.* Vol.3 (1): 13-16.
24. Naseem, S. 2003. The brave new world of Transgenic Animal. DAWN, ScienceDotCom, Saturday, April 5, 2003

Submitted

1. Decoding novel PRSV pathogenesis and interactions within the host through in-silico comparative modeling and docking analysis of essential viral proteins. *Frontiers in Molecular Biosciences*, section Biological Modeling and Simulation. (Manuscript ID: 1303659)
2. Optimization process for de-novo organogenesis and regeneration of transgenic papaya plants using leaf tissue as explants (PCTO-D-23-00540)
3. Climate Change Impacts on *Broussonetia papyrifera* Pollen - Metabolome Investigations and Prospects of Allergy Prevalence in Times of Climate Change. *Aerobiologia*. 9ID dc754441-4544-475b-802e-b9e5282d6e780
4. Allergenic Pollens can host pathogenic bacteria – systematic study and identification by Biolog and MALDI-TOF. (Manuscript ID: diseases-2725790)

International/national Conference, workshop, training Course Presentations

1. Science Communication and Community Engagement (participation). Feb. 1-3, 2023. Comstech and Ministry of Foreign Affairs in collaboration with Technology Times, Regional Rapport and Pakistan Biotechnology Information Center (PSBIC)
2. B & R International Innovation and Development Institute Network (ANSO-BIDI) School Program (Participant) Completion date May 4th-July 13th, 2022 (duration 3 weeks). ANSO & UCAS-China.
3. Virtual Conference on Ecosystem Restoration in Global South co-organized by COMSATS Center for Climate & Sustainability (CCCS and United Nations Environment Programme- International Ecosystem Management Program (UNEP-IEMP) (participation) on the occasion of World Environment Day 2021, June 07, 2021.
4. Naseem, S., Rapid Diagnostic Methods for Food Safety: Trends and Prospects In: Training Session: Good Lab Practices (GLPs) to Evaluate Food Safety and Identify Potential Risks. Pp. 9. International Conference: Research and enterprise on Food Safety in developing world. December 5-8, 2016, COMSATS IIT, Pakistan. (**Key Note Lecture**).
5. Shah, HA., Murad M. Ali, Z. Naseem, S. Isolation, Characterization and Assessment of Bacteriophages against citrus canker causing bacterial strains. *In*: International Conference: Research and enterprise on Food Safety in developing world. Programme and abstract book. Pp. 40. December 5-8, 2016, COMSATS IIT, Pakistan. (**Poster Presentation**).
6. Naseem, S. Ali, Z and Saleem A. *Papaya ringspot virus*: Isolate variability and phylogenetic analysis of PRSV biotype P in Pakistan. *In*: International Conference: Research and enterprise on Food Safety in developing world. Programme and abstract book. Pp. 43. December 5-8, 2016, COMSATS IIT, Pakistan. (**Poster Presentation**).
7. Naseem, S., Asif, S.A., Ali, Z. Hafeez, F.Y. Identification of *Papaya ringspot virus*-P in Pakistan and prediction of its evolutionary rate. In: *Advances in Plant Virology* organized

by Association of Applied Biologists at the ICC, Birmingham-UK, March 31- April 2, 2015.

8. Saadia naseem, Farah Judy, Zainab farooqi, Fauzia y, Hafeez. Computational prediction of plant miRNA targets in plant viruses. **In:** book of Abstracts: First National conference on Prospects and Oppurtunities for Agricultural Development in Pakistan. June 25-27, 2013 at Khanispur Ayubia, Pakistan.
9. Z. Ali.,Saadia Naseem, H.J. Jacobsen. Transgenic pea (*Pisum sativum* L.) over expressing Na⁺/H⁺ antiporter gene showed improved salt tolerance and better growth performance in association with PGPR. **In:** book of Abstracts: First National conference on Prospects and Oppurtunities for Agricultural Development in Pakistan. June 25-27, 2013 at Khanispur Ayubia, Pakistan.
10. Saadia Naseem. African Cassava mosaic virus and East African cassava mosaic virus in single and mixed infected cassava. 2011. **In:** Creativity and Innovation in Life Science, Research, Enterprise and Education. Pp 23 Proceedings of 22nd FAOBMB Conference, 5-7 Oct. 2011. The Biopolis, Singapore.
11. Saadia Naseem. Plant Biosecurity and need of development of plant health sensor technology. 2011. **In:** Summer School DAAD Alumni, Special project 7-18 nov. 2011, "Agritechnica 2011" Agriculture Engineering for food security and resource conservation pp34. University of Hohenheim, Germany.
12. **Naseem, S.**, Aslam, A., Malik, K. A., and Hafeez, F. Y. 2004. Understanding the genetic instability in *Cicer arietinum* root nodule bacteria. **In:** Current Plant Science and Biotechnology in Agriculture, Biogical nitrogen fixation, sustainable agriculture and the environment, Proceedings of the 14th international Nitrogen fixation Congress. Eds. Wang, Y. P.; Lin, M.; Tian, Z. X.; Elmerich, C.; Newton, W. E. Pp-319, 2005. Springer, The Netherlands.
13. **Naseem, S.** and Winter, S. Phenotypic aberrations caused by cassava geminiviral RNA silencing suppressors in transgenic *Nicotiana benthamiana*. **In:** *Proceedingd of 5th Joint meeting of Dutch and German Plant Virologists.* 8-9 April 2009, Hamburg, Germany.
14. **Naseem, S.**, Aslam, A., Malik, K. A., and Hafeez, F. Y. 2004. Molecular characterization and phylogenetic analysis of nodulating and non-nodulating chickpea isolates. **In:** Abstracts, 4th international Science Conference 6-9 Oct 2004 pp 29. University of Azad Jammu & Kashmir, Muzzafarabad & science International 11D, Sabzazar, Wahdat Road, Lahore, Pakistan.

Conference/training Course, Events Organized:

1. International Conference: Research and Enterprise on Food Safety in Developing World. DAAD-HEC. December 5-8, 2016. (Organizer). Approved Budget DAAD-Germany 8,890 Eur, HEC-Pakistan 965,450 Rs.

2. Good Lab Practices (GLPs) to evaluate food safety and identify potential risks. December 7, 2016. Resource Person: Prof. Dr. Richard e. Goodman & Dr. Saadia Naseem
3. Know thy Leader” meeting of female faculty with worthy Rector CIIT Prof. Dr. S.M. Junaid Zaidi (Co-organizer) at CIIT-Islamabad.
4. Training Course “Advances in Collection of Microorganisms and Cell Cultures” March 11, 2014. Resource Person: Prof. Dr. Erko Stackebrandt, DSMZ, Braunschweig Germany (Organizer).
5. DAAD-HEC International summer school “Food Security in times of Climate Change” Nov 2-5, 2013. (Focal Person)

Service activity/ technical training

Year	Duration	Activity	Institute/University
2024	March 8, 2024	Chief Guest “Inventix Summit” organized by Roots International Schools and Colleges	MIUC H-8 Islamabad
2023	Feb 1 st to 3 rd 2023	COMSTECH International Conference on Science Communication and Community Engagement.	COMSTECH
2022	May 04 July 13 th 2022, Ten weekly modules, Every Wednesday	Fourth Term of ANSO-BIDI School for Innovation, Sustainable Development and Leadership Enhancement (2022)	ANSO headquarters Online meeting: Organizer: College of B&R (Research Institute), UCAS Beijing Zhongke Science and Technology Innovation Development Research Institute. CHINA
2022	3rd March, 2022 Via ZOOM link	International Symposium for Digital Transformation of Higher and Recurrent Education through Industry-Academia Collaboration (DXHE2022)”	Japanese Society for Engineering Education (JSEE).
2021	February 08	Workshop on ‘From Zoom Fatigue to Zoom Vroom’	FDA-CUI, Islamabad
2019	March 15-17	Training on effective implementation of anti-sexual harassment legislation	Mehergarh-Islamabad
2018	March 15	Food safety in perspective of advances in increasing the salinity tolerance of crops by Prof. Mark Tester	Comstech-Islamabad
2017		NGS Training Hands on	CIIT-Islamabad
2017	Fall 2017	Admission Interview MS Biochem & Mol Biology, Microbiology	Dept. Biosciences, CIIT-Islamabad

2017	10-04-2017 To date	Qarz-e-hasna committee (member)	Dept. Biosciences, CIIT-Islamabad
2012-17	2012-To date	Focal Person, German Alumni Association CIIT	CIIT-Islamabad
2012-16	Feb. 2012- Aug. 2016	Member, Institutional Proctorial Board	CIIT-Islamabad
2012 to date		Member, Institutional Biosafety Committee	CIIT-Islamabad
2012-16	Feb. 2012- Aug. 2016	Incharge proctor, Department of Biosciences	CIIT-Islamabad
2011-13	2011-2013	Student Counselor	CIIT-Islamabad
2014	Nov. 17- 19	Project Management for Universities	FDA-CIIT-Islamabad
2014	Jan. 20-23	Training course “Outcome based learning and Test Construction”	CIIT-Islamabad
2013	Dec. 13	Biosafety research in Pakistan-Grant Program workshop (USAID) and CERA	CIIT-Islamabad
2012	July 19	International Seminar on “Interactive Strategies for ELT Classrooms” by Dr. Sandra Hancock (USA)	CIIT-Islamabad
2012	May. 28- June 1	FAO/IAEA workshop on basic surveillance and control for dengue vectors in Pakistan and elsewhere	NCP-QAU-Islamabad
2012	Jan. 2-31	Pre Service Training (Faculty Development Academy)	FDA-CIIT-Islamabad
2011	1 week	Student Counseling workshop	CIIT-Islamabad
2011	1 day	Building Beautiful Minds	CIIT-Islamabad
2006	May-Aug	German Language Course	DiD-Berlin, Germany

Membership of Scientific Organizations/ Societies (Public Outreach)

Member, Graduate Program Committee, CUI

Member-Institutional Biosafety Committee in CIIT

Convener, Female Faculty/Staff and Student Affairs, Dept. Biosciences, CIIT

Executive Member German alumni Association in CIIT

* Member of Biotechnology Society of Pakistan.

* Member of Scientific Educational and Social Council of Biochemists (SESCOB),
University of Agriculture Faisalabad, Pakistan.

* Member Pakistan Science and Engineering Forum (PakSEF), www.paksef.org

* Member Virtual think Tank of Pakistan (VTTP), www.vttp.org

Served as Joint Secretary of Biochemical Society in 2000 and as Finance Secretary in 2001.

Served as Finance Secretary of Scientific Educational and Social Council of Biochemists
(SESCOB) in 2001, University of Agriculture Faisalabad, Pakistan

References:

Available on request

Research Students Supervised:

PhD Completed:

1. Anam Saleem (SP15-PBS-001) Molecular Studies of Papaya ringspot virus Biotype P Infecting Papaya in Pakistan (Supervised)
2. Amara Javaid (FA13-PMI-004) Functional Profiling of Bioactive Compounds from Indigenous Plant Resources (Supervised)
3. Wajeeha Saeed (FA13-PBM-007) Process Optimization for Up-regulation of Strigolactones and their Role in Plant Growth Promotion (Co-Supervised)
4. Saira karimi (member)
5. Sobia (member)

PhD thesis (completed):

Ph.D. (On-going): 02 + 03 Co-supervisor

PhD (completed) 02 + 03 Co-supervisor

MS (completed): 23+ 19 Co-supervisor

MS (On going): 03 + 03 Co-supervisor

BS (Completed): 19 + 13 Co-supervisor

BS (On going): 1 + 0 Co-superv