



Iram Liaqat, Ph.D

OFFICIAL ADDRESS: Tenured Associate Professor, Department of Zoology, Government College University, Lahore. Email: iramlqt@gmail.com; dr.iramliaqat@gcu.edu.pk; iramliaq@hotmail.com.

Scopus ID: 24179333800; Web of Science ResearcherIDB-8694-2009
<https://orcid.org/0000-0002-4638-8253>

PERMANENT ADDRESS: 678 L Block, Sabzazar, Lahore

Liaqat Ali Awan, Gill Road, Hameed colony near kothi Nafeesa Khalid, Gujranwala, Pakistan.

DISTINCTIONS/AWARDS

1. Awarded 2010 Endeavour Research Fellowship, an Australian Government competitive, for postdoc Research at University of Western Australia, Australia.
2. Awarded fellowship for the 6th World Congress of the World Society for Pediatric Infectious Diseases (WSPID). Buenos Aires, Argentina (Nov 18-22, 2009).
3. Designed title cover for “Journal of Basic IEEE Microbiology” which was accepted for 03/2009 issue.
4. First position and cash prize in poster presentation at the 2008 Annual APPNA Winter Meeting held in Lahore-Pakistan (Dec 21-24, 2008).
5. Selected by HEC for six month research fellowship Scheme abroad entitled “International Research support initiative program”.
6. Nominated for “UNESCO/L’Oreal Co- Sponsored fellowship for young women in Life Sciences” by Higher Education Commission (HEC) of Pakistan in 2006.
7. Awarded George Foster Fellowship by Germany for two years postdoc (2013).
8. Awarded Merit based scholarship at Secondary level for two years during undergraduate study.
9. Awarded fellowship as “Early career scientist “to attend Commonwealth Science Conference by Royal Society, London (Jun 13-16, 2017).
10. 2nd position and cash prize in oral presentation entitled “Role of Flagellar Motility in Biofilm formation of Pathogenic bacteria” at 37th International Pakistan congress of Zoology, held at GC University, Faisalabad (Feb 28- March 02, 2017).
11. Awarded Travel grant by Royal Society, London to participate in “Policy workshop” organized by International Network for Government Science Advice (INGSA) at the DoubleTree, Johor Bahru, Malaysia (Jun 11-12, 2017).
12. **Awarded Travel grant by HEC (Ref. No.302.81) to present Research Paper at the “2nd International conference on Medical Science Technology” held in Malaysia (Nov 14- 15, 2018).**
13. First position and cash prize in poster presentation at 3rd International conference on Biological and Public Health Research, Organized by Department of Zoology, GC University, Lahore-54000, Pakistan (Nov 13-14, 2019)
14. Awarded **Bill and Melinda Gates Abstract Award for Scientists from Low-Middle and Low Income Countries** to present work entitled “**7952: Gut Dysbiosis, Inflammation And Type 2 Diabetes In Mice Using Synthetic Gut Microbiota From Diabetic Humans**” and attend World Microbe Forum, a joint digital between ASM Microbe 2021 and FEMS2021 (June 20-24, 2021).
15. Awarded **Bill and Melinda Gates Abstract Award for Scientists from Low-Middle and Low Income Countries** to present work entitled “**7954: Multienzyme And Antibacterial Potential Of Bacteria Isolated From Gut Of Asian Honey Bee (*Apis Cerana Indica*), Lahore Using Culture Dependent Method**” and attend World Microbe Forum, a joint digital between ASM Microbe 2021 and FEMS2021 (June 20-24, 2021).
16. Invited for training on “Prevention and Control of Tropical Diseases” by Hainan Medical University, China (Dec 4-15, 2023)
17. Awarded Performance based increment in 2021,
18. Awarded Performance based increment in 2022,
19. Awarded Performance based increment in 2023

POSTDOCTORAL RESEARCH EXPERIENCE (Apr 2010-Jul 2011)

1. **LUMS Postdoctoral Fellow (Dec 2010-Jul 2011)** Department of Biology, LUMS School of Science and Engineering, Lahore, Pakistan).
2. **Endeavour Postdoctoral Fellow (Apr 2010-Oct 2010):** (The University of Western Australia, School of Biomedical, Biomolecular & Chemical Sciences, Microbiology M502, 35 Stirling Hwy Crawley WA 6009. Australia).

DOCTORAL TRAINING (2009)

1. Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan.
2. Department of Chemical and Process Engineering, The University of Sheffield, UK (Mar 2007-Sep, 2007)

TEACHING EXPERIENCE

- Tenured Associate Professor, Department of Zoology, G.C University, Lahore (Aug 2019-todate).
- Assistant Professor, Department of Zoology, G.C University, Lahore (Jun 2012-Aug 2019).
- Assistant Professor, Institute of Microbiology, University of Agriculture, Faisalabad (Aug 2011-May 2012).
- Lecturer- Department of Biosciences, COMSATS Sahiwal, Pakistan (Sep 2009-Feb 2010).
- Lecturer/Assistant Professor – Institute of Molecular biology and Biotechnology, The University of Lahore, Pakistan (Mar 2009- Aug 2009).
- Research Scholar, Department of Microbiology and Molecular genetics, University of the Punjab, Lahore (2004-2009)

ADMINISTRATIVE EXPERIENCE (2004-2011)

- Assistant Superintendent: Girls Hostel =1(Hazrat Fatima Jinnah Hall), University of the Punjab, Lahore-54590. Pakistan (2004-2010).
- Khadija Hall, University of Agriculture, Faisalabad (2010-2011).

PROFESSIONAL EDUCATION

C.T (1997) and B. Ed (2001), (Teaching degrees)

RESEARCH EXPERIENCE: More than 16 years as Researcher/Academician at University Level.

INTERNATIONAL TRAINING WORKSHOP ATTENDED:

- “Stem Cell: A Beacon for Human Organ Repair” at National Centre of Excellence in Molecular Biology, University of the Punjab, Lahore (Dec 1- 13, 2003).
- First International Conference on “Assessing Quality in Higher Education”, UNESCO-HEC-Punjab University, Pearl Continental Hotel, Lahore (Dec 11-13, 2006).
- “Policy workshop” (Nominated by Royal Society, London) organized by International Network for Government Science Advice (INGSA) at the DoubleTree, Johor Bahru, Malaysia (Jun 11-12, 2017).

NATIONAL TRAINING COURSE ATTENDED

- “Staff Development Course” under the scheme National Academy of Higher Education held at Human Resource Centre, University of the Punjab, Lahore (May 9 - Jun 4, 2005).
- ”Pre-18th FAOBMB Symposium satellite workshop on Bioinformatics” held at university of the Punjab, Lahore, Pakistan (Nov 14-19, 2005).
- 3 days workshop on “Synthetic biology and its dual use”, Organized by COMSTECH Islamabad (Feb 3-5, 2011).
- Third National Training Workshop on Electron & Confocal Microscopy held at National Institute for Biotechnology & Genetic Engineering, NIBGE, (Dec 12-21, 2011).
- 4 days Faculty Training Workshop under Quality Enhancement Cell, held at Government College University, Lahore (Sep 3-6, 2012).
- 3 days Training Course on “Diagnosis of Viral Diseases” held at NAIB, Faisalabad, Organized by NAIB, Faisalabad (Sep 20-22, 2016).

NATIONAL/INTERNATIONAL CONFERENCES ATTENDED:

1. Participated in National Symposium on Biotechnology for economic prosperity organized by National Commission on Biotechnology and Ministry of Science and Technology at *Nathiagali*, Pakistan (Jul 24-26, 2006).
2. Oral presentation at 1st International Conference on Cultural and Biological resources of Pakistan held at Hazara University, Mansehra, NWFP Pakistan (Aug 23-25, 2006).
3. Attended 1st International Symposium on “Microbial Technologies for Sustainable Agriculture”, Explore the hidden Potentials of Microbes held at NIBGE, Faisalabad, Pakistan (Mar 12-16, 2007).
4. Attended Sixth International Biennial Conference of Microbiology, at Quaid-e-Azam University Islamabad, (Mar 18-21, 2007).
5. Attended 1st Symposium on Genomics, Proteomics, Metabolomics; Recent trends in Biotechnology held at University of Punjab, Lahore, Pakistan (Oct 22 -23, 2007).
6. Attended Seminar on Waste Disposal “Laboratory Waste Management”, organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore (Feb 01, 2008).
7. Attended One day seminar on topic “Microbial resistant Paints” organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore (Apr 17, 2008).
8. Oral Presentation at 29th International Congress of Zoology held at University of Sindh, Jamshoro, Pakistan (Feb 24 -26, 2009).
9. Attended International symposium 2009, “Future Trends in Molecular Biological Research & its Applications in Agriculture and Health” (Mar 25-27, 2009) held at “The Twin Centre for Molecular Biology University of the Punjab, Lahore, Pakistan”
10. Attended Symposium on “Modern Biotechnology; A Resource for Sustainable Development” held at Pearl Continental Hotel, Shalimar Hall, organized by Department of Microbiology and molecular Genetics, University of the Punjab, Lahore (Jul 4, 2009).
11. Attended a Seminar on Hepatitis C organized by Department of Microbiology and molecular Genetics, University of the Punjab, Lahore (Jan 9, 2010).
12. Oral presentation at 30th Pakistan Congress of Zoology (International), held at University of Agriculture, Faisalabad (Mar 2-4, 2010).
13. Attended One day Seminar on “Water Crises in Pakistan and Our Social Responsibility, a EPD-LCWU Joint activity” (Mar 25, 2010), organized by Department of Environmental Sciences, Lahore college for Women University, Jail Road, Lahore, Pakistan (Mar 25, 2011).
14. Attended One day Seminar on “The role of the regulation of mtrR in *Nessieria gonnorhea* attachment and invasion into model cell lines” held at School of Biomedical, Biomolecular and chemical Sciences, University of Western Australia, Australia, University of Western Australia, Australia (May 10, 2011).
15. Attended One day Seminar on “Chemically Induced models of intestinal inflammation and colorectal cancer”; School of medicine and Pharmacology, Centre for Inflammatory Bowl diseases, Fremantle Hospital, University of Western Australia, Australia (May 14, 2011).
16. Attended One day Seminar on (1), “The epidemiology of oropharyngeal Gonorrhoea and Chlamydia in Perth sexual health clinic 2000-2009”, (2), “Identification and Characterization of Influenza Virus, Evaluation of different approaches, (3), “Developing a mouse model of Murine Cytomegalo virus induced hepatitis”, feathers University of Western Australia, Australia (Jun 24, 2011).
17. Attended One day Seminar on “Genotyping and Phenotyping of *N. meningitis* serogroup B disease isolates in WA”, (2), “Comparative analysis of Kangaroo leishmaniasis with human leishmaniasis in Australia; An in vitro study”, (3), “Epidemiology of Rotavirus infection in Western Australia (2006-2009)”, (4), “The detection and identification of human papillomavirus associated with subclinical infection of skin”, (5), “Association of mutations in Influenza virus genome with outcomes of pandemic (H1N1) 2009 virus infections”, (6), “Fitness differences between lineages of Dengue virus 2 in *Aedes aegypti* mosquitos and diversity in Dengue virus T cells and B cells epitopes by genomic sequence analysis to investigate effective vaccine targets”, (7), Mechanism of somatic hypermutation of antibody genes and the genesis of cancer, University of Western Australia, Australia. (Jun 30, 2011).
18. Attended a seminar series on “Changing mindset and building capacity for innovation and commercialization”, Organized by University of Agriculture, Faisalabad (Oct 29, 2011).
19. Attended one day seminar on “Role of Botanical sciences in agricultural development”, Organized by Department of Botany, University of Agriculture, Faisalabad (Nov 4, 2011).
20. Oral Presentation at 10th Shaukat Khanum cancer Symposium “Costs of cure” held at Pearl Continental Hotel, Lahore, Pakistan (Nov 9-11, 2011).

21. Attended one day Seminar on “Role of Natural Products as biting deterrents /repellents against *Aedes aegypti* (A vector for Dengue)”, Organized by University of Agriculture, Faisalabad (January 21, 2012).
22. Attended one day seminar on “Intellectual Property rights management”, organized by ORIC, BIC, EFS, University of Agriculture, Faisalabad (Feb 25, 2012).
23. Oral Presentation: 32nd Pakistan Congress of Zoology held at Government College University, Lahore (Mar 6-8, 2012).
24. Attended one day “National Equine Breeding Conference 2012 organized by Faculty of Veterinary Sciences, University of Agriculture, Faisalabad (Mar 15, 2012).
25. One day International seminar on “Transgenic crops: A key to food security”, at University of Agriculture, Faisalabad (Mar 16, 2012).
26. Oral Presentation: 12th National and 3rd International conference of Botany, held at Quaid-e-Azam University, Islamabad. (Sep 1-3, 2012).
27. Attended International Symposium on Prevention, Management and Future Strategies in Dengue Fever held at Punjab Medical College, Faisalabad. Topic: Molecular detection of dengue virus occurring among different mosquito populations in some Districts of Punjab (Sep 24-25, 2012).
28. Oral Presentation: International Symposium on Prevention, Management and Future Strategies in Dengue Fever held at Punjab Medical College, Faisalabad (Sep 24-25, 2012).
29. Oral Presentation: International Symposium on Prevention, Management and Future Strategies in Dengue Fever held at Punjab Medical College, Faisalabad. (Sep 24-25, 2012).
30. Oral presentation at 11th Shaukat Khanum cancer Symposium “Costs of cure” held at Pearl Continental Hotel, Lahore, Pakistan, Topic: “Quorum Sensing Monitoring and Inhibition in Marine isolates” (Nov 9-11, 2012).
31. Oral presentation: 33rd Pakistan Congress of Zoology (International), held at Pakistan Museum of Natural History, Islamabad (Apr 2-4, 2013).
32. Invited Lecture at “One day workshop on “Recent Trend in Biological Research” organized by Department of Zoology, Government College University, Lahore (Oct 28, 2013).
33. Attended Lecture and Walk on “Prevention and Treatment of Cancer” Organized as Advisor, Biological Society, GCU Lahore in collaboration with Cancer Care Hospital & Research centre (Feb 04, 2014).
34. Oral Presentation on “Connection between Quorum sensing and biofilm formation in marine isolates” at International conference on innovative biological and public health research (IBPHR-2014), to celebrate 150 years of Excellence of GC university organized by Department of Zoology, Government College University, Lahore (May 06-08, 2014).
35. Organizer, International conference on innovative biological and public health research (IBPHR-2014), to celebrate 150 years of Excellence of GC university, Department of Zoology, Government College University, Lahore (May 06-08, 2014).
36. Attended “International Symposium on Molecular Forensic: Emerging Trends” organized by the Department of Forensic Sciences, University of Health Sciences, Lahore (May 29, 2014).
37. Participated in “Capacity Building Workshop Sessions on PPRA Rules for the Staff Members” organized by Quality Enhanced Cell, G. C. University, Lahore (Sep 03, 2014).
38. Participated in “International Conference on Plant Sciences” organized by the Department of Botany, G. C. University, Lahore (Sep 22-24, 2014).
39. Participated in “One Day Symposium on Emerging Issues of Multidrug Resistance: A Threat to the Globe” organized by the Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore (Oct 2nd, 2014).
40. “1st International Conference on Forensic Science & Justice” organized by the Department of Chemistry, G. C. University, Lahore (Oct 22-24, 2014).
41. Participated in International Conference on Biotechnology for Sustainable Development organized by Institute of Industrial Biotechnology, GC University, Lahore (Nov 27, 2014)
42. Organizer: Seminar on cancer at world cancer day as Advisor, Biological society, Department of Zoology, GC University, Lahore held at Ali Auditorium, Lahore (Feb 06, 2014).
43. Participated in International Conference on “Environment and Sustainable Development organized by SDSC, GC University, Lahore (Dec 16-17, 2014).
44. Attended 5th International Fisheries Symposium “Fisheries, Trade and Investment Opportunities” organized by Department of Fisheries in collaboration with Pakistan Fisheries Society held at Pearl Continental Hotel Lahore, Pakistan (Feb 24-25th, 2015).

45. Oral Presentation: 10th Biennial International Conference of Pakistan Society for Microbiology, Exploring Microbes for Future Endeavours organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Presentation (Mar 25-28th, 2015).
46. Participated in “Breast Cancer Walk” organized by Quality Enhancement Cell, GC University, Lahore (Oct 21, 2015)
47. Poster Presentation entitled “*In vitro* Inhibitory Activity of Some Herbal Plant Extracts Against oral Biofilms”, at Ravian Forensic society competition, organized by department of Chemistry, GC University, Lahore (Oct 22, 2015).
48. Poster Presentation entitled “UV Mutation Affects Bacterial Colonization and Biofilm Formation on Phyllosphere of *Olea europaea*”, at Ravian Forensic society competition, organized by department of Chemistry, GC University, Lahore (Oct 22, 2015).
49. Seminar on “Understanding the mechanism of proton couple oligopeptide transporters (PQTs), organized by Khurrana Society, Department of Biotechnology GC University, Lahore at Physics Seminar Hall (Nov 17, 2015).
50. International seminar on “Ecosystem Restoration in Pakistan, Global Call and Local Action” organized by SDSC Department, GC University, Lahore, at Bukhari Auditorium (Feb 03, 2016).
51. Participated in “International Conference on Livestock Genomics”, Organized by Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore (May 30-31, 2016).
52. Organized “An Awareness seminar on cardiovascular diseases and walk on “World’s Heart Day” as advisor of Biological Society, G. C. University, Lahore (Sep 29, 2016).
53. “International Conference on ‘Latest Trends in Domestic and Wild Animal Genomics and Biotechnology’ organized by Department of Molecular Biology, Virtual University, Lahore, Pakistan (Nove 21-22, 2016).
54. Member, Organizing Committee: One day International Seminar on “Fisheries and Aquaculture” by Department of Zoology, GC University, Lahore, Pakistan (Feb 10, 2017).
55. Organizer: One day seminar on “Eco friendly Urban Development: as advisor, Biological Society, GC. University, Lahore (27 Feb, 2017).
56. 2nd position and cash prize in oral presentation entitled”Role of Flagellar Motility in Biofilm formation of Pathogenic bacteria” at 37th International Pakistan congress of Zoology, held at GC University, Faisalabad (Feb 28 -02 Mar, 2017).
57. Awarded fellowship as “Early career scientist “to attend Common wealth Science Conference by Royal Society (Jun 13 -16, 2017).
58. “International Conference on New Trends in Natural Sciences: From Basic to Applied”, jointly organized by Department of Biotechnology and Zoology, Lahore College for Women University, Lahore (Oct 25 – 27, 2017).
59. Invited speaker: “One Health International Conference (OHC 2017)” organized by College of Veterinary & Animal Sciences, Jhang-Pakistan (Nov 13-15, 2017).
60. Member, Organizing Committee: “2nd International Conference on Innovative Biological and Public health Research (IBPHR-2017)” Department of Zoology, GC University, Lahore (Dec 06-07, 2017).
61. Member, Organizing Committee: “International Workshop on DNA Barcoding: Barcode of life data systems” Department of Zoology, GC University, Lahore (Dec 20, 2017).
62. Oral presentation at 38th Pakistan Congress of Zoology (INTERNATIONAL), at University of Punjab, Lahore, Pakistan (Feb 27- Mar 01, 2018).
63. Co-chairperson - Plant and Animal Molecular Genetics session of 38th Pakistan Congress of Zoology (INTERNATIONAL), at University of Punjab, Lahore, Pakistan ((Feb 27- Mar 01, 2018)).
64. Oral presentation at 6th International Conference on Education (ICE): A Multi & Inter-Disciplinary Conference, at University of Education, Bank road Campus, Lahore, Pakistan (Mar 15-17, 2018).
65. Oral presentation at 3rd International Conference on Biosciences organized by Biological society of Pakistan, at GC University, Lahore, Pakistan (May 9-11, 2018).
66. Member, Organizing Committee: One day National Workshop on “Insecticide resistance and Possible Solutions” at Physics Seminar hall, Department of Zoology, GC University, Lahore, Pakistan (Oct 10, 2018).
67. **Awarded Travel grant by HEC (Ref. No.302.81) to present Research Paper at the “2nd International conference on Medical Science Technology” held in Malaysia (Nov 14- 15, 2018).**
68. Member, Organizing Committee: “World Fisheries day” at Physics Seminar hall, Zoology Deptt, GC University, Lahore, Pakistan (Nov 27, 2018).
69. Member, Organizing Committee of “2nd International Conference of Plant Sciences (ICPS 2018)”, Organized by Botany Deptt, GC University, Lahore, Pakistan (Dec 5-7, 2018).

70. Delivered a lecture as Keynote Speaker at “2nd International Conference of Plant Sciences (ICPS 2018)”, Organized by Botany Deptt, GC University, Lahore, Pakistan (Dec 5-7, 2018).
71. Delivered a talk at GRIP’s International Conference on Pharmaceutical & Biochemical Science (IC-PBS), held at Punjab University and Expo Center, Lahore, Organized by Department of Pharmacy, University of the Punjab, Allama Iqbal Campus, Lahore, Pakistan (Jan 15-17, 2019).
72. One day “International Seminar on Extraction methods of commercialization of herbal products”, Organized by Botany Deptt, GC University, Lahore at Physics Seminar Hall (Jan 29, 2019).
73. Member, Organizing committee, One day “International Seminar on Fisheries and Aquaculture”, Organized by Zoology Deptt, GC University, Lahore at Physics Seminar Hall (Feb 1, 2019).
74. Member, Organizing committee, One day “International Seminar on Applications of Silk Sericin in Medical Science and Industry”, Organized by Zoology Deptt, GC University, Lahore at Physics Seminar Hall (Sep 20, 2019).
75. Participated in: “Recent Innovations in Molecular Sciences” University of the Punjab, Lahore and International organization for Biological and integrated control (Nov 6-8, 2019).
76. Member, Organizing Committee: “3rd International Conference on Innovative Biological and Public health Research (IBPHR-2019)” Department of Zoology, GC University, Lahore (Nov 13-14, 2019).
77. One day Workshop on: “Isolation of Silk Sericin and its applications in Textile and Leather Industry” Organized by Zoology Deptt, GC University, Lahore (Nov 13, 2019).
78. Attended One day Seminar on “Poverty Alleviation through the Silk Cottage Industry” Organized by Zoology Deptt, GC University, Lahore in collaboration with Punjab Forest Department (Sericulture Wing) (December 21, 2019).
79. Member, Organizing committee, “World Fisheries Day 2019, Sustainable Fisheries-Aquaculture and Conservation” Department of Zoology, GC University, Lahore in collaboration with Oryza Organics Private, Limited. (Nov 22, 2019).
80. Invited Speaker, “National conference on entrepreneurship avenues in biological sciences (NCEB)” Organized by Department of Biology, Lahore Garrison University, Lahore (Dec 18-19, 2019).
81. Session Chair “National conference on entrepreneurship avenues in biological sciences (NCEB)” Organized by Department of Biology, Lahore Garrison University, Lahore (Dec 18-19, 2019).
82. Attended a Webinar “Psychological burden of COVID19 in Academics” organized by Academic Staff Association and Psychological Department, GC University, Lahore (Jun 25, 2020).
83. Participated in international online symposium “Digital Transformation in Higher Education” organized by Ripah International University, Islamabad (Jul 2, 2020).
84. Attended a Webinar “Smart lockdown and its impact” organized by Mahbub ul Haq Economics Society, GC University, Lahore (Jul 13, 2020).
85. Member, Organizing Committee “One day Webinar on Industrial application of Silk Sericin” Organized by Department of Zoology, GC University, Lahore (Jul 18, 2020).
86. Attended a Webinar on “Industrial applications of Silk Sericin”, organized by department of Zoology, GC University, Lahore (July 18, 2020).
87. Member, Organizing Committee, “Industrial applications of Silk Sericin” organized by department of Zoology, GC University, Lahore (Jul 18, 2020).
88. Participated in International Symposium on Fisheries and aquaculture, Pakistan” organized by Department of Zoology, GC University, Lahore and Alltech Pakistan Pvt. Ltd. (Aug 12-14, 2020).
89. Member, Organizing Committee: “Three days Biocontrol training course” Department of Zoology, GC University, Lahore and International organization for Biological and integrated control (Aug 20-22, 2020).
90. Participated in: “Three days Biocontrol training course” Department of Zoology, GC University, Lahore and International organization for Biological and integrated control (Aug 20-22, 2020).
91. Participated in virtual seminar (International) on “World animal Day 2020” organized by department of Zoology, University of Education, Lahore (Oct 04, 2020).
92. Participated in International conference on “Post Pandemic Ecological Sustainability: Challenges and Role of IT,” organized by Virtual University of Pakistan, Federal Government University, (Oct 06-07, 2020).
93. Participated in Workshop on “Isolation of Silk Sericin and its applications in textile and leather industry” organized by department of Zoology, GC University, Lahore (Nov 13, 2020).
94. Participated in virtual seminar on “Diabetes and Corona virus (COVID 19)”, organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore (Nov 14, 2020).
95. Participated in one day “International symposium on World Fisheries day” Organized by Department of Zoology, Division of Science and Technology, University of Education, Lahore (Nov 21, 2020).

96. Member, Organizing Committee, World Fisheries day, organized by Department of Zoology, GC university, Lahore (Nov 23, 2020).
97. Oral Presentation at “Virtual One Health International conference” Organized by Department of Pathobiology, CVAS, Jhang (Nov 25-26, 2020).
98. Participated in International conference on “Digital teaching and assessment: Challenges by students” organized by Ripah academy of research and education (RARE) (Nov 26, 2020)
99. Participated in one day seminar on “Sericulture” Organized by Department of Zoology, GC University, Lahore (Dec 12, 2020).
100. Participated in a Seminar on “Science Communication and Public Engagement” organized by COMSTECH secretariat, Islamabad (Mar 9, 2021).
101. Member, Organizing Committee, “**Conference on Recent Advances in Applied Biosciences (CRAABS)**”, organized by **Department of Biology** of the Lahore Garrison University (Mar 30-31, 2021)
102. Oral Presentation at “**Conference on Recent Advances in Applied Biosciences (CRAABS)**”, organized by **Department of Biology** of the Lahore Garrison University (Mar 30-31, 2021).
103. Session Chair, “**Conference on Recent Advances in Applied Biosciences (CRAABS)**”, organized by **Department of Biology** of the Lahore Garrison University (Mar 30-31, 2021).
104. Session Co-Chair, **First Virtual Pakistan Congress of Zoology** [40th Pakistan Congress of Zoology (International)] Jointly Organized by Zoological Society of Pakistan and Sindh Agricultural University, Tandojam, Lahore (Dec 14, 17-19, 2021).
105. Oral presentation at **First Virtual Pakistan Congress of Zoology** [40th Pakistan Congress of Zoology (International)] jointly Organized by Zoological Society of Pakistan and Sindh Agricultural University, Tandojam, Lahore (Dec 14, 17-19, 2021).
106. Participated in Webinar “**Humanized antibodies and vaccine development against COVID-19**” organized by Biological society, Department of Zoology, GC University, Lahore (Apr 8, 2021).
107. Participated in Webinar “**Viruses don't discriminate, get vaccinated**” organized by CMC-LC (Apr 11, 2021).
108. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist**” organized by American society of Microbiology (Apr 14, 2021).
109. Participated in Webinar “**Ramzan in the Time of COVID**”, organized by Disease awareness and Prevention Society, GC University, Lahore (Apr 19, 2021).
110. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist, Topic SOPs + Vaccination = Solution for COVID-19 Pandemic**” organized by American society of Microbiology (May 5, 2021).
111. Participated in international Webinar “**Role of Biodiversity Information in Global Biodiversity Information Facility (GBIF)**” organized by American society of Microbiology (May 18, 2021).
112. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist, Topic Understanding COVID 19 Antibody Tests**” organized by American society of Microbiology (May 19, 2021).
113. Participated in international Webinar “**ROLE OF YOUTH IN GLOBAL BIODIVERSITY CONSERVATION**” organized by Horticultural Society GC University Lahore (May 21, 2021).
114. Participated in international Webinar “**INTERNATIONAL WEBINAR ON WILDLIFE CONSERVATION**” organized by Department of Zoology, GCU Lahore (May 24, 2021).
115. Participated in international “**AASSA_PAS Webinar III/Hybrid Workshop**” organized by Pakistan Academy of Sciences, Islamabad, Pakistan (May 25, 2021).
116. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist, Topic COVID-19: Transitioning towards a New Normal**” organized by American society of Microbiology (May 26, 2021).
117. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist, Topic “The Story of Microbiology and ASM in Pakistan”** organized by American society of Microbiology (June 02, 2021).
118. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist, Topic “COVID Vaccination in Pakistan (Myths and Realities)”** organized by American society of Microbiology (June 07, 2021).
119. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist, Topic “COVID-19 Diagnosis and Clinical Management”** organized by American society of Microbiology (June 09, 2021).

120. Participated in One day international Webinar “**The redox regulatory network of the cell in the heart of metabolic regulation and stress acclimation**” organized by Department of Botany, GC University, Lahore (June 14, 2021).
121. Oral presentation in “**Fourth International Conference on Biosciences (ICBS-2021)**”, organized by Biological Society of Pakistan (BSP) in Collaboration with Department of Plant Sciences, Quaid-e-Azam University, Islamabad (June 15, 2021).
122. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist, Topic “Update on COVID-19 Pandemic: Importance of Training and Biorisk Management”** organized by American society of Microbiology (June 16, 2021).
123. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist, Topic “COVID-19 Updates from Khyber Pakhtunkhwa (KPK)”** organized by American society of Microbiology (June 23, 2021).
124. Participated in international “**AASSA_PAS Webinar III/Hybrid Workshop” (Pandemic preparedness: Science and Countermeasures)** organized by Pakistan Academy of Sciences, Islamabad, Pakistan (June 25, 2021).
125. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist, Topic “Impact of COVID-19 Pandemic on Education and Tourism in Gilgit Baltistan”** organized by American society of Microbiology (June 30, 2021).
126. Participated in international “**Webinar on Science Diplomacy**” organized by Virtual Universiy, Pakistan (June 25, 2021).
127. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist, Topic “COVID-19 Pandemic in Azad Jammu and Kashmir (AJK): An Update of Last One Year Experience”** organized by American society of Microbiology (July 07, 2021).
128. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist, Topic “COVID-19 PANDEMIC AND ROLE OF MICROBIOLOGIST”** organized by American society of Microbiology (July 14, 2021).
129. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist, Topic “COVID-19 and Impact on Antimicrobial Resistance (AMR)”** organized by American society of Microbiology (July 28, 2021).
130. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist, Topic “Microbiology as Subject and Career”** organized by American society of Microbiology (August 04, 2021).
131. Participated in international Webinar “**COVID-19 Pandemic and role of Microbiologist** organized by American society of Microbiology (August 25, 2021).
132. Delivered an invited lecture on “**Micropaleontology**” at department of Zoology, GC University, Lahore (August 27, 2021).
133. Participated in international Webinar “**Treatment and Critical Care of COVID Patients in ICU**”, organized by American society of Microbiology (September 29, 2021).
134. Participated in international Webinar “**Oral Health and Dental Education during COVID Pandemic: Challenges & Way Forward for Pakistan**”, organized by American society of Microbiology (October 13, 2021).
135. Participated in international Webinar “**Breast Cancer Awareness: Screening and Early Detection**”, organized by American society of Microbiology (Nov 03, 2021).
136. Participated in one day seminar on “**Fisheries and Aquaculture**”, organized by Department of Zoology, Government College University, Lahore (Nov 26, 2021).
137. Member, Organizing and Steering Committee, **4th International Conference on Innovative Biological and Public Health Research 2021(IBPHR-2021)** Organized by Department of Zoology, Government College University, Lahore (Dec 7-8, 2021).
138. Session Co-Chair, **4th International Conference on Innovative Biological and Public Health Research 2021(IBPHR-2021)** Organized by Department of Zoology, Government College University, Lahore (Dec 7-8, 2021).
139. Participated one day **workshop** on “A Successful Journey from Research to Publication” organized by Office of Research Innovation and Commercialization (ORIC), Government College University, Lahore (Feb 17, 2022).
140. Oral presentation at international conference entitled, “**International Conference on Remote Sensing & GIS Integration in Veterinary, Agricultural and Health Sciences (RGVAHS-2022)**” organized

by Faculty of Veterinary and Animal Sciences, MNS-University of Agriculture, Multan Pakistan (Feb 23-24, 2022).

141. Participated one day Webinar on “**Biodiversity of Animals and its conservation**” organized by Department of Zoology, University of the Punjab, Lahore (Jan 30, 2022).
142. Participated one day Seminar on “**DNA Barcoding**” organized by Biological Society, Department of Botany, Government College University, Lahore (Feb 15, 2022).
143. Oral presentation at “**1st International Conference on Recent Approaches in Plant Sciences (RAPS-2022)**” organized by department of Botany, University of Education, Lahore (Mar 30-31, 2022).
144. Participated in “**One day Seminar on Sericulture**” Organized by Department of Zoology, Government College University, Lahore (Sep 22, 2022).
145. Oral presentation at “**Current and Innovative Trends in Applied Bio-Sciences (CITABS)**” organized by Department of Biology, Lahore Garrison University, Lahore (Nov 21-22, 2022).
146. Session Chair at “**Current and Innovative Trends in Applied Bio-Sciences (CITABS)**” organized by Department of Biology, Lahore Garrison University, Lahore (Nov 21-22, 2022).
147. Poster Evaluation as Judge at “**Current and Innovative Trends in Applied Bio-Sciences (CITABS)**” organized by Department of Biology, Lahore Garrison University, Lahore (Nov 21-22, 2022).
148. Oral Presentation at “**4th One Health International Conference (OHIC)**” organized by College of Veterinary and Animal Sciences - CVAS, 12 Km Jhang-Chiniot Rd, Jhang, Punjab, Pakistan (Nov 24-25, 2022).
149. Oral Presentation at “**International Conference on Fisheries and Aquaculture (2022)**” organized by Department of Zoology, Government College University, Lahore (Nov 23-24, 2022).
150. Session Co-Chair at “**International Conference on Fisheries and Aquaculture (2022)**” organized by Department of Zoology, Government College University, Lahore (Nov 23-24, 2022).
151. Member, Organizing Committee at “**International Conference on Fisheries and Aquaculture (2022)**” organized by Department of Zoology, Government College University, Lahore (Nov 23-24, 2022).
152. Oral Presentation at “**International Fisheries & Aquaculture Conference-2023 (IFAC-2023)**” organized by University of the Punjab, Lahore, Pakistan (Feb 08-09, 2023).
153. Member, Organizing Committee at “**International Fisheries & Aquaculture Conference-2023 (IFAC-2023)**” organized by University of the Punjab, Lahore, Pakistan (Feb 08-09, 2023).
154. Session Co-Chair at “**International Fisheries & Aquaculture Conference-2023 (IFAC-2023)**” organized by University of the Punjab, Lahore, Pakistan (Feb 08-09, 2023).
155. Participated in Webinar “Avain Fauna of Qinghai-Tibet Plateau-Distribution pattern” organized by Department of Zoology, Government College University, Lahore (Feb 07, 2023).
156. Organizer, One day Seminar on “**Fisheries and Aquaculture**” organized by Department of Zoology, Government College University, Lahore (Feb 14, 2023).
157. Organizer, One day Seminar on “**Fish Biotechnology**” organized by Department of Zoology, Government College University, Lahore (Feb 15, 2023).
158. Participated in One day International Seminar on “**Sericulture**” organized by Department of Zoology, Government College University, Lahore (Feb 17, 2023).
159. Participated in three days webinar on “**Wild life Disease investigation**” Organized by Asian Elephant Support, USA, National Trust for Nature Conservation, Kathmandu, Nepal and living in fine environment Trust, India, sponsored by US Fish and Wildlife Service (Feb 15-17, 2023).
160. Participated in “**World Wildlife Day**” Under the ten billion Programme/Green Pakistan Programme, Punjab wild life and Parks department in collaboration with Department of Zoology, Government College University, Lahore (Mar 3, 2023).
161. Member, Organizing Committee at “**2nd Two-Day International Conference on Zoological Emerging Scientific Trends (ZEST-2023)**” organized by Department of Zoology, Division of Science and Technology, University of Education, Lahore (Mar 07-08, 2023).
162. Session Co-Chair at “**2nd Two-Day International Conference on Zoological Emerging Scientific Trends (ZEST-2023)**” organized by Department of Zoology, Division of Science and Technology, University of Education, Lahore (Mar 07-08, 2023).
163. Oral Presentation at “**2nd Two-Day International Conference on Zoological Emerging Scientific Trends (ZEST-2023)**” organized by Department of Zoology, Division of Science and Technology, University of Education, Lahore (Mar 07-08, 2023).

164. Participated in “**AGAHI-Awareness on Climate Chang and Effects of Floods in Pakistan**” Under the Seed Grant fund 2022 Organized by Department of Chemistry University of the Punjab, Lahore (Mar 13, 2023).
165. Speaker, **International Conference on Health Security 2023**, Organized by University of Veterinary and Animal Sciences (UVAS), Lahore (Mar 14-15, 2023).
166. Oral presentation at “**41st Congress of Zoology (International)**” organized by University of the Punjab, Lahore (Mar 16-18, 2023).
167. Session Chair at “**41st Congress of Zoology (International)**” organized by University of the Punjab, Lahore (Mar 16-18, 2023).
168. Participated in one day webinar on “**Impact of Improper E-Waste Management on Human Health and Plants**” Organized by Dr. Sultan Ahmad Botanical Society, Department of Botany, Government College University, Lahore (Apr 3, 2023).
169. Participated in one day webinar on “**Significance and Cultivation of Carnivorous Plants**” Organized by Dr. Sultan Ahmad Botanical Society, Department of Botany, Government College University, Lahore (Apr 7, 2023).
170. Participated in one day webinar on “**Bio fertilizers in Agriculture**” Organized by Dr. Sultan Ahmad Botanical Society, Department of Botany, Government College University, Lahore (Apr 11, 2023).
171. Participated in one day webinar on “**Postcards production using Life forms**” Organized by Dr. Sultan Ahmad Botanical Society, Department of Botany, Government College University, Lahore (Apr 13, 2023).
172. Participated in one day webinar on “**Carnivorous Plants**” Organized by Dr. Sultan Ahmad Botanical Society, Department of Botany, Government College University, Lahore (Apr 14, 2023).
173. Participated in one day webinar on “**Green Fashion: Role of Applied Botany in Sustainable Fashion Industry**” Organized by Dr. Sultan Ahmad Botanical Society, Department of Botany, Government College University, Lahore (Apr 16, 2023).
174. Participated in one day webinar on “**Green Synthesis**” Organized by Dr. Sultan Ahmad Botanical Society, Department of Botany, Government College University, Lahore (Apr 14, 2023).
175. Participated in one day webinar on “**Green Synthesis**” Organized by Dr. Sultan Ahmad Botanical Society, Department of Botany, Government College University, Lahore (Apr 14, 2023).
176. Participated in one day webinar on “**Recent Advances in Applied Botany**” Organized by Dr. Sultan Ahmad Botanical Society, Department of Botany, Government College University, Lahore (Apr 18, 2023).
177. Participated in one day webinar on “**Nutraceuticals as Functional Food**” Organized by Dr. Sultan Ahmad Botanical Society, Department of Botany, Government College University, Lahore (Apr 19, 2023).
178. Participated in one day webinar on “**Climate Change**” Organized by Tech Women Under Seed Grant 2022, (May 03, 2023).
179. Oral Presentation at “**2nd International Congress on Innovation Technologies & Engineering held online and in-person on June 12-13, 2023 / Izmir, Türkiye**”, organised by Ege University, Tashkent Institute of Chemical Technology, Karakalpak State University, Tashkent State Pedagogical University and IKSAD Institute” Izmir - Türkiye (June 12-13, 2023).
180. Participated in “**International Conference on Biological and Medical Sciences 2023 (ICBMS 2023)**” organized by University College of Conventional Medicine, The Islamia University of Bahawalpur, Pakistan (August 6, 2023).
181. Oral Presentation at “**5th International Conference of Innovative Biological and Public Health Research, Oct 11-12, 2023**” organized by Department of Zoology, Government College University, Lahore (Oct 11-12, 2023).
182. Focal Person “**5th International Conference of Innovative Biological and Public Health Research, Oct 11-12, 2023**” organized by Department of Zoology, Government College University, Lahore (Oct 11-12, 2023).
183. Session Co-Chair at “**5th International Conference of Innovative Biological and Public Health Research, Oct 11-12, 2023**” organized by Department of Zoology, Government College University, Lahore (Oct 11-12, 2023).
184. Member, Organizing Committee, **One day Seminar on World Fisheries Day**”, Organized by Department of Zoology, Government College University, Lahore (Nov 28, 2023).
185. Oral presentation at **13th International Conference on Agricultural, Animal Sciences and Rural Development**, Organized by Usak University, Türkiye (Nov 28-29, 2023).
186. Oral Presentation at **9th Ankara International Congress on Scientific Research, Ankara, Türkiye** (Dec 26-29, 2023).

187. Oral Presentation at **3rd International Conference on Scientific and Academic Research, Konya/Turkey** (Dec 25-26, 2023).

188. Attended a Webinar “Shining a light on Down Syndrome: Understanding and Acceptance” organized by Biological Society, GC University, Lahore (Mar 23, 2024).

189. Attended International Seminar on “Molecular Mysteries” organized by Zoological Society, GC University, Lahore (Mar 27, 2024).

190. Attended International Seminar on “Wild life wonders: Solutions for conservation” organized by Zoological Society, GC University, Lahore (Mar 10, 2024).

191. Oral Presentation at “**3rd International Çankaya Scientific Studies Congress, Ankara, Turkey**” (Feb 28-29, 2024).

192. Session Chair at “**3rd International Çankaya Scientific Studies Congress, Ankara, Turkey**” (Feb 28-29, 2024).

193. Session Co-Chair at “**6th International Conference on Advances in Biosciences**” organized by Government College University, Lahore, Pakistan (Apr 18-19, 2024).

194. Oral presentation at “**42nd Congress of Zoology (International)**” organized by University of Azad Jammu and Kashmir, Muzzaffarabad, Pakistan (Apr 23-25, 2024).

195. Session Co-Chair at “**42nd Congress of Zoology (International)**” organized by University of Azad Jammu and Kashmir, Muzzaffarabad, Pakistan (Apr 23-25, 2024).

196. Oral presentation (Topic: Honey as Antibiofilm Agent Against Multispecies Bacterial Biofilm) at **INTERNATIONAL İYONYA SCIENTIFIC RESEARCH CONGRESS**, Organized by **İZMİR/TURKEY** (18-20 MAY 2024).

197. Oral presentation (Topic: Biofilm Mediated Bioremediation Of Pesticides Contaminated Sites) at **INTERNATIONAL İYONYA SCIENTIFIC RESEARCH CONGRESS**, Organized by **İZMİR/TURKEY** (18-20 MAY 2024).

198. Organizer, Hands on training on “**Application of nalaytical Profile index (API)**” as Microbial Identification System organized By Department of Microbiology, Dr. Ikram Ul Haq Institute of Industrial Biotechnology, Government College University, Lahore (13th August, 2024).

199. Oral presentation at **INTERNATIONAL GAZİANTEP SCIENTIFIC RESEARCH CONGRESS 30-31 AUGUST 2024 GAZİANTEP/TURKEY**, Organized by **INTERNATIONAL SCIENCE AND ART RESEARCHCENTER (ISARC) TURKEY** (Aug 30-31, 2024).

200. Oral presentation at **INTERNATIONAL GAZİANTEP SCIENTIFIC RESEARCH CONGRESS 30-31 AUGUST 2024 GAZİANTEP/TURKEY**, Organized by **INTERNATIONAL SCIENCE AND ART RESEARCHCENTER (ISARC) TURKEY** (Aug 30-31, 2024).

201. Participated in one day webinar on “**Role of Recombinant DNA Technology in the Management of Disease**” Organized by World Forum for Young Scientists (WFYS), (Sep 03, 2023).

202. Guest Speaker for one day Webinar on “**Quorum Sensing Mediated Inhibition of Marine Microbial Biofilms**” Organized by World Forum for Young Scientists (WFYS), (Sep 11, 2023).

203. Participated in one day webinar on “**Natural Products: A Hidden Treasure for Health**” Organized by World Forum for Young Scientists (WFYS), (Sep 14, 2023).

204. Oral Presentation at **7th International Conference on Applied Zoology (ICAZ 2024)**, Organized by University of Sargodha, Sargodha, Pakistan (Oct 22-23, 2024).

205. Invited Lecture at **“Ist International Microbiology Conference (IMC-24); Microbial World: Innovations, Challenges and Future Perspectives”** organized by Institute of Microbiology, Government College University, Faisalabad (Nov 13-15, 2024).

206. Invited Lecture at **“International Conference on Advances in Life Sciences (ICALS 2024)”** organized by World forum for Young Scientists (Nov 10, 2024).

207. Session Chair at **“Ist International Microbiology Conference (IMC-24); Microbial World: Innovations, Challenges and Future Perspectives”** organized by Institute of Microbiology, Government College University, Faisalabad (Nov 13-15, 2024).

208. Invited Lecture at **“Asia Pacific Biofilms 2024”** organized by University of Guangzhou, China (Nov 12-17, 2024).

209. Member, Organizing Committee, **One day Seminar on World Fisheries Day**”, Organized by Department of Zoology, Government College University, Lahore (Dec 12, 2024).

210. Oral Presentation and Session Head at **8th International Antalya Scientific Research and Innovative Studies Congress**, Organized by Antalya, Turkey (Jan 25-27, 2025).

211. Organizer, One day Seminar on Genomics and Gene Editing, In collaboration with Zoologicl Siciety, GC University, Lahore (Mar 12, 2025).

212. Oral Presentation and Session Head at **8th International Ankara Multidisciplinary Studies Congress**, Organized by Ankara, Turkiye (Mar 16-18, 2025).

213. Oral Presentation and Session Head at **8th International Ankara Multidisciplinary Studies Congress**, Organized by Ankara, Turkiye (Mar 16-18, 2025).

214. Oral Presentation and Session Head at **6th INTERNATIONAL SELÇUK SCIENTIFIC RESEARCH CONGRESS**, Organized by Konya, Turkiye (Mar 16-18, 2025).

215. Oral Presentation and Session Head at **6th INTERNATIONAL SELÇUK SCIENTIFIC RESEARCH CONGRESS**, Organized by Konya, Turkiye (Mar 16-18, 2025).

216. Oral Presentation and Session Head at **4th International Congress of Modern Sciences" Global Prospects for Multidisciplinary Research and Education,'** Organized by IKSAD institute, Turkiye (Apr 7-10, 2025).

217. Oral Presentation and Session Head at **4th International Congress of Modern Sciences" Global Prospects for Multidisciplinary Research and Education,'** Organized by IKSAD institute, Turkiye (Apr 7-10, 2025).

218. Oral Presentation and Session Head at **6th International Trakya Research Scientiific Congress, Edirne, Turkiye'** Organized by ISARC, Turkiye (Apr 05-06, 2025).

219. Oral Presentation and Session Head at **6th International Trakya Research Scientiific Congress, Edirne, Turkiye'** Organized by ISARC, Turkiye (Apr 05-06, 2025).

220. Oral Presentation and Session Head at **"11th INTERNATIONAL GÖBEKLİTEPE SCIENTIFIC STUDIES CONGRESS, Turkiye'** Organized by ISARC, Turkiye (May 17-18, 2025).

221. 2nd Oral Presentation and Session Head at **"11th INTERNATIONAL GÖBEKLİTEPE SCIENTIFIC STUDIES CONGRESS, Turkiye'** Organized by ISARC, Turkiye (May 17-18, 2025).

222. Oral Presentation at **"9th INTERNATIONAL CONFERENCE ON MEDICAL AND HEALTH SCIENCES'** Organized by ISARC, Turkiye (May 15-19, 2025).

223. 2nd Oral Presentation at **"9th INTERNATIONAL CONFERENCE ON MEDICAL AND HEALTH SCIENCES'** Organized by ISARC, Turkiye (May 15-19, 2025).

224. Session Chair at **"INTERNATIONAL SYMPOSIUM ON CURRENT DEVELOPMENTS IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES organized by Institute of Economic Development & Social Researches / Ankara- TÜRKİYE** (May 25-26, 2025).

225. Oral Presentation at **"10th INTERNATIONAL CONFERENCE ON GLOBAL PRACTICES OF MULTIDISCIPLINARY SCIENCECTIFIC STUDIES'** Organized by IKSAD INSTITUTE, Turkiye (May 23-28, 2025).

226. 2ND Oral Presentation at **"10th INTERNATIONAL CONFERENCE ON GLOBAL PRACTICES OF MULTIDISCIPLINARY SCIENCECTIFIC STUDIES'** Organized by IKSAD INSTITUTE, Turkiye (May 23-28, 2025).

227. Oral Presentation at **"11th INTERNATIONAL BILTEK CONGRESS ON CURRENT DEVELOPMENTS IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES'** Organized by ANKARA, Turkiye (May 25-26, 2025).

228. Organizer One day Seminar on **"WETLANDS BIODIVERSITY: THREATSAND CONSERVATION STRATEGIES"** in Collaboration with Zoologic (Mar 13, 2023).I Society, GC University, Lahore (2025).

229. Session Co-Chairperson at **"43RD PAKISTAN CONGRESS OF ZOOLOGY" AT UNIVERSITY OF OKARA, OKARA ORHANIZED BY ZOOLOGICAL SOCIETY OF PAKISTAN** (Jun23-25, 2025).

230. Oral Presentation at **"10th INTERNATIONAL UOKOROVA AGRICUOTURAL AND VETRINARY CONGRESS** Organized by IKSAD INSTITUTE, Turkiye (JUNE 22-23, 2025).

231. Oral Presentation at **"7th INTERNATIONAL ISANBUL CURENT SCIENTIFIC RESEARCH CONGRESS"** HELD ON ISTANBUL, Turkiye (JULY 1-3, 2025).

232. Participated in one day webinar on **"Towards Digital Transformation: Ensuring an Equitable and Inclusive Society"** Organized by COMSATS Secretariat, (Jun 17, 2025).

233. Oral Presentation at **15th International Congress on Advanced Scientific Studies and Interdisciplinary Research** HELD ON ISTANBUL, Turkiye (JULY 19-20, 2025).

234. Participated in one day webinar on **"Applications of AI in Biotechnology"** Organized by World Forum for Young Scientists (WFYS), (July 26, 2025).

235. Oral Presentation at **5th International Congress on Applied Sciences HELD On Paris, France** (Aug 4-8, 2025).

236. 2nd Oral Presentation at **5th International Congress on Applied Sciences HELD On Paris, France** (Aug 4-8, 2025).

237. Oral Presentation at **10th International Conference on Medical and Health Sciences** HELD in Roame, Italy (Sep 2-9, 2025).

238. Oral Presentation at **International Conference on Rangelands and Forage Crops III** HELD in Didim, Turkey (Sep 12-14, 2025).

239. Oral Presentation at **11st INTERNATIONAL HASANKEYF SCIENTIFIC RESEARCH AND INNOVATION CONGRESS 20-21 SEPTEMBER 2025/ BATMAN, TÜRKİYE** (Sep 20-21, 2025).

240. Oral Presentation at **12th INTERNATIONAL GÖBEKLİTEPE SCIENTIFIC STUDIES CONGRESS 21-22 SEPTEMBER 2025 ŞANLIURFA/ TÜRKİYE** (Sep 21-22, 2025).

241. Oral Presentation at **International Congress on Global Practice of Multidisciplinary Scientific Studies-XI**. At Munich, Germany (Oct 13-17, 2025).

242. Oral Presentation at **7th International Harran Congress on Scientific Research** at Saliurfa/Turkiye (Oct 19-21, 2025).

243. Oral Presentation at **18th INTERNATIONAL CONFERENCE ON AGRICULTURE, ANIMAL SCIENCE & RURAL DEVELOPMENT** at Konya/Turkiye (Oct 24-26, 2025).

244. Oral Presentation at **9th ISPEC International Congress On Contemporary Scientific Research** at Dubai/UAE (Nov 8-12, 2025).

245. Organizer **“6th International Conference of Innovative Biological and Public Health Research, Nov 19-20, 2025** organized by Department of Zoology, Government College University, Lahore (Nov 19-20, 2025).

246. Member, Organizing Committee: **“One day Seminar and Fish Cooking Competition”** on World Fisheries day” Department of Zoology, GC University, Lahore (Dec 05, 2025).

247. Oral Presentation at **11th INTERNATIONAL CUKUROVA AGRICULTURE AND VETERINARY CONGRESS.** at ADANA/Turkiye (Dec 27-28, 2025).

NATIONAL AND INTERNATIONAL WORKSHOPS

- 1.** Training workshop on Proteomics in the Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan, (Oct 22-23, 2007).
- 2.** International Workshop on “An Update on Pathogenesis of Mycobacterial Diseases”, held at COMSTECH, Islamabad (Apr 25-27, 2012).
- 3.** Member, Organizing Committee: National Workshop on “Prevention and control of Dengue Vectors” Zoology Deptt, GC University, Lahore (Nov 5-8, 2012).
- 4.** One day workshop on “Developing Industry Driven Technologies” organized by ORIC Office, GC University, Lahore (Nov 10, 2014).
- 5.** Two days Pre-Conference Workshop on “Parasitology and its Immunological Aspects”, Organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore (Feb 13-14, 2015).
- 6.** Member, Organizing Committee: “Nation workshop on Biosafety training for young scientists” Zoology Deptt, GC University, Lahore (Oct 20, 2016).
- 7.** One day workshop on “Intellectual Property” organized by Quality Enhancement Cell, GC University, Lahore (Apr, 2017).
- 8.** “Policy workshop”, (Nominated by Royal Society, London) organized by International Network for Government Science Advice (INGSA) at the DoubleTree, Johor Bahru, Malaysia (Jun 11-12, 2017).
- 9.** Participated in one day “National Workshop on Basic Bioinformatics”, organized by Institute of Industrial Biotechnology, GC University, Lahore (Nov 29, 2017).
- 10.** “2nd National Workshop on Basic tools in Bioinformatics and Molecular Modelling” organized by Institute of Industrial Biotechnology, GC University, Lahore (Mar 7-8, 2019).
- 11.** “Workshop on Using Scientific Evidence for Maximizing Benefits of China Pakistan Economic Corridor” Organized by Research Institute for Microwave and Millimeter-Wave Studies (RIMMS), National University of Science and Technology, Islamabad, Pakistan. (Nov 5, 2019).
- 12.** Member, Organizing committee, Three days Biocontrol Training Course (INTERNATIONAL), organized by Department of Zoology, GC University, Lahore in collaboration with International Organization for Biological Control (IOBC) (20-22nd August, 2020).
- 13.** Attended “One day International Webinar on “Molecular Pathways of Cathepsin B in Aging and Alzheimer’s disease”, organized by Department of Botany, GC University, Lahore (Apr 22, 2021).

14. Oral Presentation at 2nd International Conference on Bee Pollination and Conservation. MNS University of Agriculture, Multan, Pakistan (May 20, 2022).
15. Participated in “**Two Days workshop on DNA Isolation and PCR**” Organized by Department of Zoology, Government College University, Lahore (June 16-17, 2022).
16. Participated in “**BC-HEC Researchers Capacity Building Program**” Organized by Higher Education Commission with the British Council at Avari Hotel, Lahore (Jul 26-29, 2022).
17. Principal Organizer” **Two Days workshop on Proteomics**” Organized by Department of Zoology, Government College University, Lahore (Aug 4-5, 2022).
18. Resource Person” **Two Days workshop on Proteomics**” Organized by Department of Zoology, Government College University, Lahore (Aug 4-5, 2022).
19. Participated in “**Two Days workshop on Gene Cloning**” Organized by Department of Zoology, Government College University, Lahore (Aug 25-26, 2022).
20. Participated in “**Two Days workshop on Gene Expression**” Organized by Department of Zoology, Government College University, Lahore (Sep 08-09, 2022).
21. Participated in Three days “International Conference/Workshop on “**Science Communication and Community Engagement**” organized by COMSTECH Secretariat, 33-Constitution Avenue, G-5/2, Islamabad (Feb 1-3, 2023).
22. Resource Person in Workshop “Bioinformatics and Computational Biology” organized by Zoology Department, Kinnaird College for Women Lahore (Mar 9, 2023).
23. Participated in “**Two Days international workshop on Applications of Computational Genomics and Epitranscriptomics in animal Sciences**” Organized by Department of Zoology, University of the Punjab, Lahore (Aug 10-11, 2023).
24. Participated in “**Strengthening Pathways into employment for women at the workplace: Bridging gaps for women’s progression through health related policies**” Organized by Department of Zoology, University of the Punjab, Lahore (Aug 30, 2023).
25. Participated in one day training on “**Intellectual Property Rights**” focussed on patent right, drafting and submission, Organized by ORIC, Government College University, Lahore (Oct 9, 2024).
26. Participated in workshop on “**Hands on equipment training and Data Analysis Workshop**” Organized by Department of Zoology, Government College University, Lahore, (Nov, 2024).
27. Participated in “Two-Day Workshop on Biosecurity and Dual Use Research” Organized by Department of Microbiology, Government College University, Lahore (November 27-28, 2024).
28. Participated in “**one-Day Workshop on “Taxidermy**” in collaboration with Stephenson’s Natural History Museum” Organized by Department of Zoology, Government College University, Lahore (Dec 4, 2024).
29. Participated in “**ISPR Halal Talks**” at Inter Services Public Relations Directorate” Organized by ISPR, Lahore (May 26-31, 2025).
- 30.

LANGUAGES AND TECHNICAL SKILLS

- Fluent in Punjabi, Urdu and English.
- Biofilm growth in bench-scale bioreactors (e.g., microtitre plates and borosilicate/propylene glass tubes);
- Characterization of single species and mixed consortia biofilms;
- Microscopic techniques for biofilm isolation, quantification, monitoring and control (e.g., Biofilm embedding using polyacrylamide gel and Fluorescent microscopy of embedded gel and tubing samples with Propidium iodide and acridine orange);
- Infrared spectroscopy (FTIR and ATR-FTIR) for structural analysis of biofilms;
- Biochemical analysis of biofilm components (i.e., cell wall analysis, etc.);
- Quorum sensing activity and inhibition;
- Microbial ecology of biofilms (e.g., 16s rRNA sequencing and Designing of degenerate primers for LuxS gene identification and sequencing);
- Biocides and antibiotic testing for biofilm control.
- Expertise in microbiology and bacterial genetics techniques: cloning, PCR, Restriction digestion, conjugation, transformation
- Fluorescence microscopy.

- Protein analysis: western blotting, protein purification.
- ELISA assay for whole cell binding and purified protein binding

EDITORIAL MEMBER/PEER REVIEWER

- Member of Editorial Board of “International Journal of Aquaculture and Fishery Sciences
- Member of Editorial Board of “SM Journal of Food and Nutritional Disorders”
- Member of Editorial Board of EC Microbiology.
- Member of Editorial Board of International Journal of Dental Research and Oral Sciences.
- Member, Advisory Board, LGU Journal of Life Sciences

REVIEWER

Reviewer/Editorial Profile Link: <https://www.webofscience.com/wos/author/record/B-8694-2009>

INTERNATIONAL PUBLICATIONS

1. **Iram Liaqat***, Robert Th. Bachmann, Anjum Nasim Sabri, Robert G.J. Edyvean, Catherine Biggs., 2008. "Investigating the effect of patulin, penicillic acid and EDTA on biofilm formation of isolates from dental unit water lines" *Applied. Microbiol. Biotechnol (USA)*., **81(2)**: 349-358..... (IF= 3.613).
2. **Iram Liaqat***, Anjum Nasim Sabri., 2008. Effect of biocides on biofilm bacteria from dental unit water lines. *Curr. Microbiol (USA)*., **56(6)**: 619-624. (IF= 1.815). Cit.: 43.
3. **Iram Liaqat***, Anjum Nasim Sabri., 2008. Analysis of cell wall constituents of biocide-resistant isolates from dental-unit water line biofilms. *Curr.Microbiol (USA)*., **57(4)**: 340-347. (IF= 1.815).
4. **Iram Liaqat***, Anjum Nasim Sabri., 2009. "In Vitro Efficacy of Biocides against Dental Unit Water Line (DUWL) Biofilm Bacteria." *Asian J. Exp. Sci (India)*., **23 (1)**: 67-75.
5. **Iram Liaqat***, Anjum Nasim Sabri., 2009. "Isolation and characterization of biocides resistant bacteria from dental unit water line biofilms" *J. Basic. Microbiol (Germany)*., **49(3)**: 1-10. (IF=1.266).
6. **Iram Liaqat***., 2009. Fourier transform infrared spectroscopy of planktonic and biofilm growth of dental unit water line bacteria. *Spectroscopy (Netherlands)*. **23(3-4)**: 175-189. (IF=0.932).
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RESEARCH PROJECTS

Research Projects in Microbiology Institute funded by EFS-USDA (2011-2012)

1. Efficient Use and Safety of *Bacillus* pathogens as vector control for effective Dengue prevention.
Co-Principal Investigator, Rs. 0.50 Million (Completed)
2. Management of Dengue virus and Malarial vector control through Biomoskill
Co-Principal Investigator, Rs. 0.60 Million (Completed)
3. Molecular detection of Dengue virus occurring among different mosquito populations in some districts of Punjab.
Co-Principal Investigator, Rs. 0.40 Million (Completed)

Research Project Funded by ORIC, Govt. College University, Lahore

1. Involvement of motility and flagella in biofilm formation by *Desulfovibrio vulgaris* (2015-2017)
Principal Investigator, Rs. 0.40 Million (Completed)

2. Determining the role of flagellar motility in bacterial biofilm formation (2018-2020)
Principal Investigator, Rs. 0.20 Million (Completed)

3. Investigating the effect of high fat diet and gut microbiota in developing Type-2 Diabetes in Mice (2020-2022)
Principal Investigator, Rs. 0.20 Million (Completed)
4. Biofilm mediated bioremediation of pesticides contaminated sites (2023-2025)
Principal Investigator, Rs. 0.30 Million (In Progress)

Research Projects from HEC (NRPU)

“Molecular Detection of Fancy Birds Parasites for Clinical Diagnosis and Epidemiology”

Co-Principal Investigator, Rs. 6.70 Million

Research Projects from PARB

“Poverty reduction of poor rural farmers through capacity building and adoption of sustainable silkworm rearing practices”

Co-Principal Investigator, Rs. 23.105 Million

Revenue generated

1. *Funding of Rs.200,000/- was won from PSF as focal person of 5th IBPHR 2023*
2. *Funding of Rs. 300000/-was won from HEC as focal person of 5th IBPHR 2023*
3. *Funding of Rs. 500000/-was won from PHEC as focal person of 5th IBPHR 2023*

SUBJECTS TAUGHT

UAF, Faisalabad: Under Graduates (DVM 3rd Semester) **and Graduates** (Centre for applied biochemistry and biotechnology) F.Sc 1st year. General Microbiology and Immunology, Cell biology (B.Sc Hons Agriculture)

GC University, Lahore: Graduates: Immunology, Biochemistry, Aquaculture and Fisheries, Microbiology, Physiology, Developmental Biology, Biosafety and Biosecurity, Animal Diversity (Protostomes), Animal Diversity (Invertebrates), Ecology, Genetics, Principles of Animal Life I, Principles of Animal Life II, Animal Form & Function II, Animal Handling, Genetics, Biodiversity and Wild life

Postgraduates (M. Phil & Ph.D): Applied Microbiology, Advanced Biotechnology (M.Phil Classes)
 Microbiology (Applied), Molecular Biology (Applied), Advanced Recombinant DNA Technology (Ph.D Classes)

ADMINISTRATIVE RESPONSIBILITIES

Acting Chairperson, Department of Zoology, Government College University, Lahore (2021-todate).

- Member, Proctorial Board, COMSATS Institute of Information Technology, Sahiwal.
- Member of the Punjab University Hostel Administration Committee.
- Member of the Punjab University Hostel Discipline Committee.
- Member, QAC Committee for the evaluation of courses and faculty at Institute of Microbiology, University of Agriculture, Faisalabad (2011-2012).
- Member Vigilance Committee, Faculty of Veterinary Sciences University of Agriculture, Faisalabad (Winter Semester 2011-2012).
- Member, Organizing committee for Spring festival (13-17th March, 2012), University of Agriculture, Faisalabad.
- Secretary, Board of studies, Institute of Microbiology, University of Agriculture, Faisalabad (Jul 2011 to May 2012).
- Assistant Superintendent, Khadija-Tul Kubra Hall, University of Agriculture, Faisalabad ((Sep 2011- May 2012).
- External Examiner for B.Sc (HONS) and M.Phil at PU (Pb), LHE and UVAS, Lahore respectively.
- Incharge: Immunology Lab, Department of Zoology, Government College University, Lahore (Jul 2011-Oct 2013).
- Member, Annual Stock Committee (Equipment and Chemicals), Department of Zoology, Govt. College University Lahore.
- Assistant Incharge: Time table, Department of Zoology, Government College University, Lahore.
- Incharge: Purchase of Chemicals and Glassware, Zoology Deptt, GC University, Lahore.
- Controller, Zoology Deptt, GC University, Lahore (Oct 2013-Aug 2014).
- Member, Organizing one day workshop on “Recent trends in Biological Research” Zoology Deptt, GC University, Lahore (Oct 28, 2013).
- Member, Board of Studies, Department of Zoology, Govt. College, University, Lahore (Oct 2016-todate)
- Tutor, Zoology Deptt. GCU, Lahore (Dec 2015-2017)

- Incharge: B.Sc Lab II, Zoology Deptt, GC University, Lahore
- Editor, Scientific Ravi, Department of Zoology, GC University, Lahore since 2014.
- Subject specialist for self assessing Report (SAR), M. Phil Program, Zoology Deptt, GC University, Lahore (Jun 4, 2014).
- Member, Admission Committee for M.Phil, Zoology Deptt, GC University, Lahore (Sep, 2014-2016).
- Member, Departmental Purchase Committee for M.Phil, Department of Zoology, Government College University, Lahore (Sep 2014- Jun, 2016).
- Departmental Focal Person for PM laptop Scheme (Nov 2015 - 2018).
- Member, March past Rehearsal. Department of Zoology, Govt. College University, Lahore (Mar 10, 2016).
- Member, Budget proposal team, Department of Zoology, GC University, Lahore (Mar 15, 2016).
- Member, Auction Team, Department of Zoology, Govt. College University, Lahore (Mar 18, 2016).
- Advisor, Biological Society, Zoology Deptt, GC University, Lahore till (2013 - Feb, 2017).
- Proctor, Zoology Deptt, GC University, Lahore (Feb, 2017 –2018).
- Co-ordinator M.Phil Program (2016-2017)
- Member, Admission Committee for M. Phil, Zoology Deptt, GC University, Lahore (Sep 2014-2016).
- Proctor, Zoology Deptt, GC University, Lahore (Feb, 2019).
- Departmental Focal Person for External Links (Feb 2018 - Feb, 2019).
- Co-ordinator, B.Sc (Hons) Evening program (Oct 2018 - Feb 2019).
- Co-ordinator, Ph.D program (Feb 2019 –Feb 2020).
- Member, TTS review Committee, GC University, Lahore (2020-2021)
- Member, Advisory board, LGU journal of Life Sciences, Lahore (June 2020-todate)
- Focal Person, Placement Office, Department of Zoology, GC University, Lahore (Jan 27, 2020-2021).
- Member, Board of Studies, Faculty of Basic Sciences, Lahore Garrison University, Lahore (November 2020-todate)
- Co-ordinator M.Phil Morning Program (Oct 2020-19 Nov, 2020).
- Reviewer Higher Education commission (HEC) and Pakistan Science Foundation (PSF) projects.
- Member, PhD thesis review and submission committee (Nov 05, 2020-todate).
- Member, Department Disciplinary Committee, GC University, Lahore (Jul 2021-todate).
- Member, Departmental Scrutiny Committee for Visiting Faculty, GC University, Lahore (Jul 2021-todate).
- Member, Admission Committee for M.Phil, Zoology Deptt, GC University, Lahore (Sep, 2021-todate).
- Proctor, Zoology Deptt, GC University, Lahore (Dec, 2021-todate).
- Member Departmental Research/Academic Committee, Zoology Deptt, GC University, Lahore (Jan, 2022-todate).
- Member, Technical Committee “Establishment of Natural History Museum, Lahore” Office of Director General, Wildlife and Parks, Punjab, Lahore (Feb 16, 2022).
- Convener, Departmental committee for report compilation by Vice Chancellor’s Office, Zoology Deptt, GC University, Lahore (17 Feb, 2022).
- Member, Committee for development of Question Papers for subject GAT test for MS/MP Member Departmental Research/Academic Committee, Zoology Deptt, GC University, Lahore (Jan, 2022-todate).
- MPhil Coordinator , Fisheries and Aquaculture, Zoology Deptt, GC University, Lahore (Oct, 2023-Feb 2023).
- Member, Board of Studies, Department of Botany, Government College University, Lahore (April 2023-todate).
- Advisor: Punjab Public Service Commission Interviews Since September 2023.
- Member, Committee for MPhil Admission Committee, Faculty of Fisheries and Wild life, UVAS, Lahore (04.10..2023).
- Member, Visiting Faculty Committee, Department of Zoology, GC University, Lahore (26.10.2023).
- Member, Board of Studies, Nanomedicines, Biopharmaceuticals, and Tissue Engineering Centre, University of the Punjab (Nanobiotech), Lahore (Feb 16, 2024- Feb 15, 2027).
- Nominated As member for a three days meeting For The National Curriculum Review Committee (Ncrc) – Zoology by Higher Education Comission, Pakistan (September 11-13, 2024).
- Reviewer, grant proposal for the National Science Center, Poland, PRELUDIUM 23, ID: 618979 dated Sep 26, 2024.
- Marking of paper scripts from GC affiliated college and University of Sargodha 2024
- Paper setter for Microbiology Final Paper for University of Sargodha, Sargodha 2024.

- Nominated for interative session as part of the “Halal Talks” at Lahore Garrison Education System Scretariat Auditorium, Lahore Cantt, Lahore (May 26-31, 2025)

GRADUATE AND POSTGRADUATE RESEARCH

- B. Sc (Hons) 37 Completed; 04 Under Progress
- M. Phil 41 Completed; 04 under progress
- Ph.D 07 (02 completed; 05 under process)

MEMBER OF LEARNED SOCIETIES

- Life Fellow Pakistan Zoological Society,
- Member, European Federation of Biotechnology,
- Member, American Society for Microbiology,
- Member of Punjab University Alumni
- Member of Endeavour award Alumni
- Member, Biological Society, GC University, Lahore
- Member, Japan Oil Chemists' Society (JOCS)
- Alumni, Humboldt Foundation

EXTRACURRICULAR ACTIVITIES

- Member of Punjab University Hostel Sports Committee (2006-2010).
- Participated in intradepartmental games at university level (2001).
- Participated in organizing Punjab University/Government College University departmental study tours.

LANGUAGES

- Urdu: native language
- Punjabi: Provincial language
- English: fluent (spoken and written)

REFERENCES

Will be furnished on demand.