

# Curriculum Vitae and List of Publications of PROF. DR. JAVED IQBAL QAZI

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### PERSONAL MEMORANDA

I.	NAME:	<b>DR. JAVED IQBAL QAZI</b>
II.	FATHER'S NAME:	QAZI AHMAD HUSSAIN
III.	DATE OF BIRTH:	April 06, 1963
IV.	ADDRESS:	Director and Professor, Institute of Zoology, University of the Punjab, Lahore, Pakistan. 92-333-4344830 Email: qazi.zool@pu.edu.pk



V.	N.I. CARD No.	35202-1520376-3
VI.	NATIONAL TAX No.	0174560-3
VII.	PASSPORT No.	AG4893761
VIII.	RELIGION.	ISLAM

#### IX. ACADEMIC QUALIFICATIONS

<i>Certificate/Degree</i>	<i>Institution</i>	<i>Year</i>	<i>Div.</i>	<i>Subjects/Title of Thesis</i>
1. S.S.C.	Govt. Dennys High School Rawalpindi	1978	1st	Biol., Chem., Eng., Isl., Math., Pak. Studies, Phy. & Urdu
2. F.Sc. (Pre-Medical)	Govt. Gordon College, Rawalpindi	1980	2nd	Biol., Chem., Eng. Phys. & Urdu.
3. B.Sc.	Govt. Gordon College, Rawalpindi	1983	2nd	Appl. Psychology, Chem., Eng. & Zool.
4. M.Sc.(Zoology) * Distinction:	University of the Punjab, Lahore 3 <sup>rd</sup> position in the university examination	1986	1st	Biochem., Biometry, Cell Biol., Dev. Biol., Environ. Biol., Evolution, Genetics, Microbiol., Palaeont., Physiol., Taxonomy, Wild-life & Zoogeography. Title of thesis: "Studies on the uptake of uranium in biological organisms of a natural radioactive terrestrial ecosystem in Pakistan"
5. Ph.D.	University of the Punjab, Lahore	1996		Title of thesis: "Hormonal influences on skeletal muscle grafts".
6. Post Doc.	University of Bangor, U.K.	2008		Environmental Biotechnology/Molecular Biology

#### X. RESEARCH EXPERIENCE:

	<i>Research topic</i>	<i>Under the supervision of</i>	<i>Status</i>	<i>Duration</i>
1.	Studies on the uptake of uranium in the biological organisms of a natural terrestrial radioactive ecosystem in Pakistan.	Prof. Dr. R.H. Jafri Department of Zoology University of the Punjab, Lahore.	M.Sc. student	1985-1986
2.	Hormonal influences on skeletal muscle grafts.	Prof. Dr. S.A. Mufti Department of Zoology University of the Punjab, Lahore.	Ph.D. student	1988-1995
3.	Molecular Biology/Environmental Biotechnology	Prof. Dr. D.B.Johnson School of Biological Sciences, University of Bangor, U.K.	Post Doctoral Research/ Visiting research fellow	2008

**XI FOREIGN EXAMINERS OF MY PH.D. THESIS:**

1. Prof. John K. McGeachie,  
Department of Anatomy and Human Biology,  
The University of Western Australia,  
Nedlands, Perth, Western Australia 6907.
2. Prof. Sidney B. Simpson, Jr.  
Dean, Professor of Biological Sciences,  
The University of Illinois at Chicago,  
College of Liberal Arts and Sciences,  
601 South Morgan Street, Chicago,  
Illinois 60607-7104,  
U.S.A.
3. Prof. M.H.Qazi (Local External Examiner)  
Vice Chancellor  
Hamdard University  
Karachi.
4. Prof. Dr. Shahzad A. Mufti (Internal Examiner)  
Director General,  
Pakistan Museum of Natural History,  
Garden Avenue, Shakarparian,  
Islamabad.

**XII. POSITIONS HELD:**

- a. Director, Institute of Zoology, University of the Punjab, Lahore from 25.01.2021 to onward.
- b. Chairman, Department of Zoology, University of the Punjab, Lahore (from 02.04.2018 to 24.01.2021).
- c. Acting Director and Drawing & Disbursing Officer (DDO), Institute of Biochemistry & Biotechnology (IBB) (15.09.2015 to 29.03.2016 & 07.06.2016 to 18.12.2016) to date vide letter No. 577/Dean Life Sc. Dated 27.12.2016.
- d. Permanent Tenured Professor (27.10.2012 to onward).
- e. Professor of Zoology under Tenure Track system (from 28-04-2008 to 26.10.2012).
- f. Professor (B.P.S) of Zoology (from 25.07.2004 to 28-04-2008).
- g. Associate Professor, Department of Zoology, University of the Punjab, Lahore (from 30.11.2001 to 24.07.2004). In addition to assignments mentioned in e) presently I am Incharge of Regular Ph.D. programme and Central Ph.D. research laboratory of the department.
- h. Assistant Professor, Department of Zoology, University of the Punjab, Lahore (from 08.12.1997 to 29.11.2001). Have been teaching courses on deuterostomes, biochemistry and medical zoology to B.Sc. (Hons.) students. Have been teaching a course on biochemistry, three courses on Microbiology and one on Evolution to M.Sc. students including supervision of laboratory work. For Ph.D. regular programme, I am teaching courses on "Human infectious diseases and diagnostic microbiology", "Bioremediation and Environmental Biotechnology", "General Microbiology" and "Radiation Biology".

- i. Was appointed visiting Professor by principal F.J Medical College/ SGRH, Lahore. For delivering lecture on cell biology to M.Phil (Anatomy) students in Zoology.
- j. Has been appointed by Deputy Dean, Federal Postgraduate medical institute (Shaikh Zayed postgraduate medical institute Lahore) in 1997-1998.
- k. Has been appointed by Principle / Dean Post graduate medical institute Lahore for delivering lectures on comparative anatomy to M.Phil students in 1995-1997 and 2002.
- l. Lecturer, Department of Zoology, University of the Punjab, Lahore (from 01.02.1994 to 08.12.1997: **Date of Confirmation 01.02.1994**). Taught Developmental Biology and Microbiology courses to M.Sc. students including supervision of laboratory work.
- m. Lecturer in Zoology (selectee, Federal Public Service Commission), F.G. Degree College (Men) Sector H-9, Islamabad (from 22.06.1989 to 31.01.1994). Taught courses on Cell Biology, Genetics, Ecology and Vertebrate Anatomy to graduate students including supervision of laboratory work.
- n. Lecturer in Zoology (selectee, Lecturer Recruitment Board, Govt. of the Punjab), Government Degree College, Murree (from 08.12.1987 to 21.06.1989). Taught courses on Cell Biology, Genetics, Ecology and Vertebrate Anatomy to graduate students including supervision of laboratory work.
- o. Research Officer, Department of Zoology, University of the Punjab, Lahore (from 01.07.1986 to 07.12.1987).
- p. **Superannuation date 05.04.2023.**

### **XIII. RESEARCH AREAS:**

**Environmental Biotechnology and Microbiology, Fermentation and Skeletal muscle transplantation**

### **XIV. PRINCIPAL INVESTIGATOR OF RESEARCH PROJECTS**

1. Potential use of protozoan fauna in the industrial effluents of the tanneries for detoxification of heavy metals, sponsored by University of the Punjab, Lahore (1997 to 1997). Total granted amount = Rs. 1,58,000/-
2. Potential use of protozoan fauna in the industrial effluents of the tanneries for detoxification of heavy metals, sponsored by University of the Punjab, Lahore (1997 to 1998). Total granted amount = Rs. 84,000/-
3. Isolation and optimization of keratinolytic bacteria, sponsored by University of the Punjab, Lahore (2004-05). Total granted amount = Rs. 156,000/-
4. Isolation and termite biocontrol potential of chitinase producing bacteria, sponsored by University of the Punjab, Lahore (2009-2010). Total granted amount = Rs. 200,000/-
5. Implications of metal tolerant cellulolytic bacteria for bioremediation of contaminated soils, sponsored by University of the Punjab, Lahore (2010-2011). Total Grant Amount =Rs. 250,000/-

6. Cultivation of H<sub>2</sub>-yielding bacteria in food wastes, sponsored by University of the Punjab, Lahore (2011-2012). Total Grant Amount =Rs. 250,000/-
7. Cultivation of Heavy metals resistant bacteria in low cost media, sponsored by University of the Punjab, Lahore (2012-2013). Total Grant Amount = Rs. 250,000/-
8. Co-Principal Investigator of the Project entitled "Hepatotoxicity and Nephrotoxicity of Medicinal Plants of Pakistan". Sponsored by Higher Education Commission, Islamabad, (2013). Total Grant Amount = 5,00,000/-
9. Isolation of acid resistant lactic acid bacteria of probiotic potential from traditional dairy products, sponsored by University of the Punjab, Lahore (2013-2014). Total Grant Amount = Rs. 250,000/-
10. Study on migration pattern and characteristics of fish habitats under low flow season for Dasu Hydropower Project, Sponsored by WAPDA, Pakistan. (2014), Total Grant Amount = 3,000,000/-
11. Isolation of Yeast for Bioethanol from Watermelon, sponsored by University of the Punjab, Lahore (2014-2015). Total Grant Amount = Rs. 250,000/-
12. Co- Principal Investigator of the project entitled "Improving selective breeding technique for honey bee queen" Sponsored by University of the Punjab, Lahore (2015-16). Total Grant Amount = 2,00,000/-
13. Co-Principal Investigator of the Project entitled "Potential of lactic acid bacteria to replace antibiotic for treatment of UTI. Sponsored by Higher Education Commission (2016). Total Grant Amount = 4,10,000/-
14. "Mutagenesis of bacillus subtilis for enhanced production of cellulases" Sponsored by University of the Punjab, Lahore (2015-16). Total Amount Granted = 250,000/-
15. Optimization of pretreatment and saccharification of agri-waste using response surface methodology. Sponsored by University of the Punjab, Lahore (2017-18). Total Amount Granted = 250,000/-
16. Co-Principal Investigator of the Project entitled "Genetic diversity and pathogenic potential of Newcastle disease virus and low pathogenic Avian Influenza virus (H9) in wild birds from Punjab Province". Sponsored by Higher Education Commission, Islamabad (2017). Total Amount Granted = 4,76,634/-
17. Co-Principal Investigator of the Project entitled "Determination of digestibility of agro-waste feed stuff in Grass Carp. Sponsored by University of the Punjab, Lahore. Total Amount Granted = 150,000/-
18. Employing chitinolytic bacteria for biological control termites. Pakistan Science Foundation under PAK-US National Science Linkage Programme (NSLP) (2014-16) vide office order No. PSF/NSLP/P-PU (510). Total Amount Granted = 985845/-
19. Molecular Identification on fishes from Punjab to assess present biodiversity and promote export of the meat products. Higher Education Commission under National Research Programme for universities vide No. 8201/Punjab/NRPU/R&D/HEC/2017, dated 27.03.2019. Total amount granted = 4,159,441/-.
20. The Vice Chancellor approved the Research Project and amounts allocated out of the Budget Estimates for the year 2019-20 to the faculty members vide office order No. D/6126/Est-I, dated 08.11.2019.

#### XV. CURRICULA DEVELOPMENT:

1. Compiled a chapter on evolution for F.Sc. Biology Book, (2003) Published by the Punjab Text book Board Lahore (2003, 2004, 2005) Govt. of the Punjab.
2. Revised Syllabi of special papers on microbiology for M.Sc. Zoology Part II Course.
3. Developed Syllabi of various courses for B.Sc (Hons), M.Sc., M.S. and M.Phil programs.
4. Developed Syllabi of various courses for Ph.D. Programme.

#### XVI. TECHNICAL/RESEARCH REPORTS OF RESEARCH PROJECTS

All the projects mentioned in section XIV were executed in the capacity of Principal Investigator. Whereas for the following projects, I compiled the reports in the capacity of research officer.

1. Mufti, S.A. and Qazi, J.I., 1987. Hormonal influences on skeletal muscle grafts. 1st Annual Technical/Research Report, Pakistan Science Foundation, Research Project (Bio-149), pp.1-60.
2. Mufti, S.A., Qazi, J.I. and Khaliq, S., 1988. Hormonal influence on skeletal muscle grafts. Final Technical/Research Report Pakistan Science Foundation, Research Project (Bio-149), pp.1-84.

#### XVII. RESEARCH SUPERVISION

##### M.Sc. Degree

Have been supervising M.Sc. theses research since 1995. Following theses have successfully been completed and degrees awarded:

1. Sheikh, S.I., 1996. Cultivation of chromium tolerant protozoa in industrial effluents of tanneries of Kasur area. Department of Zoology, University of the Punjab Lahore.
2. Ashraf, U., 1997. Biotechnological implication of protozoa in cleaning industrial effluents containing heavy metals. Department of Zoology, University of the Punjab, Lahore.
3. Noor, S., 1997. Isolation of amino acids yielding bacteria from soil and water samples of Lahore area. Department of Zoology, University of the Punjab, Lahore.
4. Batool, T., 1998. Effects of different media on isolation of amino acid(s) producing bacteria. Department of Zoology, University of the Punjab, Lahore.
5. Raqeeb, A., 1998. Optimization of growth conditions of some amino acid(s) producing bacterial strains. Department of Zoology, University of the Punjab, Lahore.
6. Qureshi, A.W., 1999. Amino acid(s) production of locally isolated bacteria in different growth media. Department of Zoology, University of the Punjab, Lahore.
7. Mariam, Z., 1999. Chromium VI reduction potential of microorganisms frequenting tanneries effluent. Department of Zoology, University of the Punjab, Lahore.

8. Andleeb, S., 1999. Isolation and characterization of chromium resistant bacteria from industrial effluents and chromium detoxification by bacteria. Department of Zoology, University of the Punjab, Lahore.
9. Ashraf, S., 1999. Culturing of lead resistant protozoa isolated from industrial effluent. Department of Zoology, University of the Punjab, Lahore.
10. Afshan, A., 1999. Isolation and characterization of chromium resistant yeast from industrial effluents and their possible use in bioremediation. Department of Zoology, University of the Punjab, Lahore.
11. Yasmin, S., 2000. Effects of some inorganic salts on growth and yield of extracellular amino acid(s) producing bacteria. Department of Zoology, University of the Punjab, Lahore.
12. Ali, M., 2000. Potential of extremophilic bacteria for in situ bioremediation of industrial effluents containing Cr<sup>+6</sup>. Department of Zoology, University of the Punjab, Lahore.
13. Hadi, S., 2001. Chromium reduction/removal potential of alkalophilic bacteria from tanneries' effluents. Department of Zoology, University of the Punjab, Lahore.
14. Niaz, S., 2001. Chromium reduction/removal potential of acidophilic bacteria from tanneries' effluents. Department of Zoology, University of the Punjab, Lahore.
15. Rafiue, M. and Khichi, E.M.K, 2001. Heavy metal resistant bacteria as an indicator of industrial pollution along an effluent receiving stream Post graduate center for earth sciences, University of the Punjab, Lahore.
16. Riaz, S., 2001. Cumulative effects of testosterone and insulin on the regeneration of skeletal muscle grafts in mice. Department of Zoology, University of the Punjab, Lahore.
17. Naseer, H.M. and Mahmood, M.A .2002 soil inhabitant mercury resistant bacteria from Lahore as indicators of atmospheric pollution and their bioremediation role. Post graduate center for earth science, University of the Punjab, Lahore.
18. Shagufta Naz, 2002. Isolation, characterization and optimization of alkalophilic keratinolytic bacteria. Department of Zoology, University of the Punjab, Lahore.
19. Saima Anwar, 2002. Hydrolysis of feather keratin by alkalitolerant bacteria. Department of Zoology, University of the Punjab, Lahore.
20. Shahid, S., 2003. Prevalence of coliforms and *Actinomyces* in drinking water samples of Lahore. Department of Zoology, University of the Punjab, Lahore.
21. Naureen U., 2003. Prevalence of coliform and *Staphylococcus aureus* bacteria in raw milk samples. Department of Zoology, University of the Punjab, Lahore.
22. Shaheen, S., 2003 Isolation and characterization of pathogenic bacteria of fish. Department of Zoology, University of the Punjab, Lahore.
23. Shahid R., 2003. Isolation and characterization of pentachlorophenol degrading bacteria. Department of Zoology, University of the Punjab, Lahore.
24. Bashir, M. F., 2003. Prevalence of antibiotic resistance in urinary tract pathogens in different age and gender groups. Post graduate center for earth sciences, University of the Punjab, Lahore.

25. Mayida Azhar., 2004. Effect of electric shocks of different voltages and durations on microbial content of drinking water. Department of Zoology, University of the Punjab, Lahore.
26. Akram, N., 2004. Construction of low-cost filters for microbiological purification of drinking water. Department of Zoology, University of the Punjab, Lahore.
27. Asif, H., 2004. Economical methods for viable counts of bacteria. Department of Zoology, University of the Punjab, Lahore.
28. Atikat-ur-Rehman, 2005. Periphytic coliform contents of a commonly used salad vegetable *Brassica oleracea*. Department of Zoology, University of the Punjab, Lahore.
29. Naz, S., 2005. Bacterial fermentation of wheat flour for the production of lysine. Department of Zoology, University of the Punjab, Lahore.
30. Nazar, S., 2005. Microbial saccharification and ethanol fermentation of potato starch. Department of Zoology, University of the Punjab, Lahore.
31. Nausheen Qaiser, 2006. Isolation of anti fungal bacteria from soil samples. Department of Zoology, University of the Punjab, Lahore.
32. Memoona Ahmed, 2006. Ethanol fermentation of rotten apples by a U.V. mutant strain of *Bacillus coagulans*. Department of Zoology, University of the Punjab, Lahore.
33. Beenish Feroz, 2006. Improving nutritional status of formulated fish feed employing solid state fermentation. Department of Zoology, University of the Punjab, Lahore.
34. Razia Ishaq, 2007. Antimicrobial effects of some herbal extracts and oils locally used as hair conditioners. Department of Zoology, University of the Punjab, Lahore.
35. Sana Nadir, 2007. Effect of solid state fermentation employing some amylase producing bacteria on nutritional status of fish feed. Department of Zoology, University of the Punjab, Lahore.
36. Sara Mumtaz, 2007. Effect of solid state fermentation employing yeasts on some nutritional parameters of fish feed. Department of Zoology, University of the Punjab, Lahore.
37. Shahida Rasool, 2007. Antimicrobial activity of pure and heat exposed honey. Department of Zoology, University of the Punjab, Lahore.
38. Nadia Naeem, 2010. Antimicrobial effects of some herbal extracts on skin and urinogenital opportunistic pathogens. Department of Zoology, University of the Punjab, Lahore.
39. Samra Maqsood, 2012. Cultivation of purple nonsulfur bacteria in low cost media. Department of Zoology, University of the Punjab, Lahore.
40. Arooj Mustafa, 2013. Cultivation of biofertilizers in agriwastes for chromium contaminated soils. Department of Zoology, University of the Punjab, Lahore.
41. Amna Ashiq, 2015. "Isolation and characterization of Xanthan gum producing bacteria".
42. Mah Noor Alam, 2016. "Improving Floating Potential of Aqua-feed."



43. Rida Ahsan, 2017. "Bactericidal and viricidal effects of enhanced solar insolation for purification of drinking water"
44. Andleeb Aslam, 2018. "Coliform load in milk samples collected from Lahore, Gujranwala and Sheikhpura."
45. Javeria Yasin, 2019. "Effect of traditional remedies on *Staphylococcus aureus* isolates from auditory canals of covered and uncovered female ears"
46. Aqsa Iqbal, 2020. "Antimicrobial effects of essential oil of *Eucalyptus camaldulensis* under different physiochemical conditions".

#### **B.Sc (Hons)/B.S (4 year degree)**

1. Rabia Rashid.2002. Antimicrobial Effect of Aqueous And Ethanolic Extracts Applicants of Commonly Practiced Herbal Wound Remedial. Department of Zoology, University of the Punjab, Lahore.
2. Sheeba Batool. 2002. Bacterial Quantity in The Lahore Canal. Department of Zoology, University of the Punjab, Lahore.
3. Habeeba Khalil. 2002. Assessing Total Regenerated Sarcoplomic Cross Sectional Area (C.S.A) Also Indicate Amount of Connective Tissue Development in Extensor Digitorum Longus Muscle Transplants in Rat Under Different Experimental conditions. Department of Zoology, University of the Punjab, Lahore.
4. Muddasir Hassan Abbasi. 2006. Canal Water Receives Organic And Bacterial Pollutants Load While Passing Through The City Lahore. Department of Zoology, University of the Punjab, Lahore.
5. Lala Rukh. 2008. Studies on Coliform Bacterial Contaminations of Some 'Fruit Chat' Samples From Lahore. Department of Zoology, University of the Punjab, Lahore.
6. Fatima Arshad Butt. 2008. Studies on Coliform Bacterial contaminations of Some 'Raw Milk and Yogurt' Samples From Lahore. Department of Zoology, University of the Punjab, Lahore.
7. Duaa Shahab. 2010. Stability of Biocorrosion Protecting Exoproducts of *Bacillus thuringiensis* (SN8). Department of Zoology, University of the Punjab, Lahore.
8. Tahira Mumtaz. 2011. Long term soil-burried exposure of mild steel to corrosion influencing bacteria. Department of Zoology, University of the Punjab, Lahore.
9. Kiran Shahzadi, 2012. Effects of urban wastes on cellulolytic bacteria and other gut contents of *Labeo rohita* from river Ravi.
10. Rabia Mehmood, 2013. Optimization of cellulolytic potential of bacteria isolated from fish gut. Department of Zoology, University of the Punjab, Lahore.
11. Nida Amin, 2014. "Cultivation of *Bacillus subtilis*-A4, A fish growth escalating probiotic in sugarcane bagasse".
12. Shakira Shakeel, 2014. "Cultivation of *Bacillus subtilis*-A7, An infection controlling fish probiotic in sugar cane bagasse".
13. Saba Majeed. 2015. "Statistical optimization of process parameters for exoglucanase production".
14. Saba Khalid. 2015 "Application of box behnken design for Endoglucanase production from *Bacillus aquinaris*".

15. Ruhma Mahmood, 2016 "Optimization of culture medium for protease production using response surface methodology."
16. Iqra Javed, 2016 "Evaluation of Tannase producing potential of bacteria isolated from fish gut."
17. Arfa Anwar, 2017. "Statistical optimization of bacterial xylanase from banana peels using submerged fermentation"
18. Anoosha Akram, 2018. "Characterization of manganese and antibiotic resistant bacteria isolated from polluted localities in Kasur."
19. Muhammad Abrar Yousaf, 2018. "Isolation and molecular identification of heavy metal and antibiotic resistant bacteria from tannery effluents".
20. Saba Asghar, 2019. "Effect of testosterone propionate on macrophage activity of EDL auto transplants in orchidectomized rats".
21. Kainat Shaker, 2019. "Macrophage assisted removal of necrotic fibers in EDL autotransplants of testosterone-deprived and supplemented rats".
22. Zainab Rahman, 2020. "Implication of direct application of medicinal plant leaves to cure skin infections".
23. Ayesha Nadeem, 2020. "Effects of moisture, friction and nature of cloth on fabric to fabric transfer of bacterial colony forming units"
24. Aliza, 2021. "Effect of some locally isolated probiotics on skin health in Mice".

#### **M.Sc. (Hons.) Degree**

1. Jumshaid, H., 2006. Production of acid proteases by *Aspergillus niger* following solid state fermentation. Department of Zoology, University of the Punjab, Lahore.
2. Ali, S., 2006. Techno-economic assessment of Zinc bactiracin production by fermentation technology. Department of Zoology, University of the Punjab, Lahore.
3. Nawaz, K., 2005. Production of alkaline proteases by *Bacillus subtilis* following submerged fermentation. Department of Zoology, University of the Punjab, Lahore.
4. Sikandar, S., 2006. Isolation of fungal species infecting human hairs and laboratory verification of their Keratin damaging potential. Department of Zoology, University of the Punjab, Lahore.

#### **M.S./M.Phill Degree**

1. Muddasir Abbasi, 2008. Bacterial desulfurization of indigenous coal. Department of Zoology, University of the Punjab, Lahore.
2. Faiza Jabeen, 2008. Potential of bacterial cellulases, lipases and proteases for formulating biodetergents. Department of Zoology, University of the Punjab, Lahore.
3. Sumaira Aslam, 2008. Isolation of acidophilic lactic acid bacteria showing antibiosis for coliforms. Department of Zoology, University of the Punjab, Lahore.

4. Lala Rukh, 2010. Isolation of oleaginous yeasts and their cultivation in agro-industrial wastes.
5. Ayesha Abdul Majeed, 2010. Protease production of *Bacillus* sp. employing some non-conventional low cost media.
6. Ali Hussain, 2010. Corrosion of mild steel following long term burial in soils differing in nutritional and biotic components.
7. Ms. Farhat Tufail, (2009-2011 Spring class). Designing low cost media for cultivation of antimycotic chitinolytic bacteria.
8. Mr. Awais Ibrahim, 2012. Potential of cellulolytic bacteria for ethanol production from agrifood wastes.
9. Mr. Sharoon Daniel, 2012. Yeast cultivation in agri-food wastes for single cell proteins.
10. Khadija Awan, 2013. "Isolation of potato starch hydrolyzing thermophilic bacteria for amylase production of industrial relevance".
11. Nafeesa Batool, 2013. "Low cost cultivation of heavy metals' resistant bacteria for bioremediating contaminated waters".
12. Sadaf Ilyas, 2014. "Isolation of acid resistant lactobacilli antagonistic to food borne bacterial pathogens".
13. Farah Deeba, 2014. "Isolation and cultivation of acetone yielding bacteria in agri-wastes".
14. Qudsia Mushtaq. 2015 "Application of statistical design to optimize multiple parameters to enhance amylase production using starch biowast".
15. Razia Sultana. 2015 "Structure of gut and feeding habit of *Schizothorax plagiostomus* from Indus river and its tributaries".
16. Noor Fatima, 2016 "Optimization of pretreatment condition for cotton stalks through response surface methodology"
17. Maria Ghazanfar, 2016 "Pretreatment of *saccharum spontaneum* for sugar production"
18. Aasiya Anjum, 2016 "Optimization of pretreatment condition for saw dust through box-behnken design"
19. Anam Arooj, 2016 "Application of Box-behnken design for pretreatment of banana peduncle"
20. Sidra Iqbal, 2016 "Pretreatment of eucalyptus leaves for efficient saccharification".
21. Saba Khalid, 2017 "Bioethanol Production by SSF of Banana Pseudo-stem and Grapefruit Peels".
22. Fiza Sanauallah Khan, 2017 "Demographic profiles and risk factors associated with pulmonary tuberculosis from District Narowal".
23. Saba Majeed, 2017 "Saccharification of *Bombax* cotton by high temperature acid and alkali pre-treatments".

24. Nabila Ishaq, 2017 "Next generation sequencing to identify antibiotic resistant genes among clinical isolates of UTI candidates from Lahore Pakistan".
25. Qurat-ul-ain Arshad, 2017 "Isolation and molecular characterization of phosphate solubilizing bacteria".
26. Sibgha Farooq, 2017 "Histological comparison of muscle tissue from pond raised and polluted riverine *Labeo rohita*".
27. Sidra Naseem, 2018. "Effect of various conventional approaches on secondary metabolites and functional properties of Glycine max meal".
28. Mehak Jamil, 2018. "Improvement of secondary metabolites and functional properties of *Punica granatum* peel through traditional processing methods".
29. Iqra Javed, 2018. Solid state fermentation of *Zea mays* for tannase production.
30. Shumaila Yousaf, 2018. Improvement of antinutritional and functional properties of *Brassica campestris* meal employing traditional processing treatments.
31. Abeera Qamar, 2018. Effect of physico-chemical treatments on functional and antinutritional properties of banana peels.
32. Maryam Naseer, 2018. Effect of different processing methods on functional and antinutritional properties of *Brassica napus*.
33. Marya Shakoor, 2018. *Staphylococcus aureus* contamination of milk sampled from Gujranwala, Lahore and Sheikhpura.
34. Sitara Anees, 2018. Endospore forming bacteria in raw milk sampled from Gujranwala, Lahore and Sheikhpura.
35. Hifza Fazal, 2018. Utilization of *Citrus Limetta* for bacterial tannase production.
36. Nazish Siddique, 2018. Role of native trees in reducing NO<sub>2</sub> emissions in urban environment.
37. Amir Zohaib, 2018. Studies on pathogenesis and molecular identification of Newcastle disease virus in Ducks".
38. Fehmina Ashraf, 2018. Microbial saccharification and fermentation of *Heterophragma adenophyllum* leaves into ethanol.
39. Syed Zulfiqar Ali Abidi, 2018. "Efficacy of maize plants leaf based feed on growth of grass carp (*Ctenopharyngodon idella*)".
40. Pakeeza Tanweer, 2019. "Iron bacteria as indicator of biocorrosion of domestic water popelines of Lahore".
41. Zunera, 2019. "Anti-acne and anti-inflammatory potential of fruit's pulp, peels and juices".
42. Ayesha Zareen, 2019. "Anti-acne and anti-inflammatory potential of local herbal extract".
43. Saba Saeed, 2019. "Application of statistical design for optimization of culture medium for amylase production".

44. Arfa Anwar, 2019. "Optimization of medium concentration using general composite design for bacterial xylanase production".
45. Ghulam Dustgeer, 2019. "Application of local plants' biomass for removal of lead from contaminated water".
46. Saba Saleem, 2019. "A survey of lignin and carbohydrate contents of different leaves for the biotechnological feedstock".
47. Amina Irfan, 2020. "Lignin degradation and cellulolytic potential of locally isolated soil bacteria".
48. Misbah Noreen, 2020. "Antimicrobial and antioxidant potential of honey and other bee products against skin pathogens".
49. Fatima Ateeque, 2020. "Statistical optimization of physicochemical conditions for yeast biomass production using pea peels".
50. Samra Hanif, 2020. "Optimization of medium components and physicochemical parameters to enhance bacterial amylase production".
51. Muhammad Abrar Yousaf, 2020. "Morphometric analysis of Nile tilapia from river Indus".
52. Shah Khanum, 2021. "Effect of insulin on early and late phases of regeneration of EDL muscle orthotransplants in Rats".
53. Saba Asghar, 2021. "Effects of dehydration, edible coatings and simulated gastrointestinal condition on viability of *Lactobacillus brevis* (MF179529)".
54. Safa Imran, 2021. "Effect of probiotic *Lactobacillus Rhamnosus* on growth performance of *Ctenopharyngodon Idella*".
55. Kainat Shaker, 2021. "Isolation of lactic acid bacteria from pickles and their characterization for edible probiotics".
56. Noor Fatima, 2021, Isolation and characterization of thermophilic amylase producing bacteria".

#### **Ph.D. Degree**

Higher Education Commission Islamabad, Ministry of Education, Govt. of Pakistan. approved Ph.D. supervisor,

#### **Completed and degree awarded**

1. Dr. Ahlam Abdul Wahab has been awarded the degree of Doctor of Philosophy after approval of her thesis entitled "Microbiological conversion of waste fruits and vegetables into ethanol" in 2006. **(Year of Enrolment 2003)**
2. Dr. Syed Zahid Hussain Bukhari has been awarded the degree of Doctor of Philosophy after approval of his thesis entitled "Human Immunodeficiency Virus (HIV) infection: its association with viral load and immune status of patients in Pakistan" in 2008. **(Year of Enrolment 2003)**

3. Dr. Asma Chaudhry has been awarded the degree of Doctor of Philosophy after approval of her thesis entitled "Growth Promoting and bacterial infections controlling roles of probiotics in Rohu *Labeo rohita* in 2008. **(Year of Enrolment 2001)**
4. Dr. Shagufta Andleeb has been awarded the degree of Doctor of Philosophy after approval of her thesis entitled "Detoxification of malathion by bacterial consortium" in 2008. **(Year of Enrolment 2001)**
5. Dr. Naureen Chaudhary has been awarded the degree of Doctor of Philosophy after approval of her thesis entitled "Designing microbial consortium for ethanol production from sugarcane bagasse" in 2008. **(Year of Enrolment 2005)**
6. Dr. Mahwish Iqtidar has been awarded the degree of Doctor of Philosophy after approval of her thesis entitled "Microbiological processing of feather keratin and its incorporation in poultry feed" in 2009. **(Year of Enrolment 2002)**
7. Dr. Arjumand Shah Bano has been awarded the degree of Doctor of Philosophy after approval of her thesis entitled "Microbiologically influenced corrosion of buried steel pipes and its prevention by bacterial antibiosis" in 2009. **(Year of Enrolment 2003)**
8. Dr. Muhammad Nadeem has been awarded the degree of Doctor of Philosophy after approval of his thesis entitled "Biotechnological production of Alkaline Proteases for industrial use".in 2011. **(Year of Enrolment 2007)**
9. Dr. Mariam Faiz has been awarded the degree of Doctor of Philosophy after approval of her thesis entitled "Characterization of cytogenetic and molecular genetic changes and their prognostic value in leukaemic patients" in 2011. **(Year of Enrolment 2004)**
10. Dr. Saima Shahzad Mirza has been awarded the degree of Doctor of Philosophy after approval of her thesis entitled "Wastewater treatment and H<sub>2</sub> production potential of locally isolated non-sulfur purple bacteria" in 2013. **(Year of Enrolment 2005)**
11. Dr. Zahida Nasreen has been awarded the degree of Doctor of Philosophy after approval of her thesis entitled "Raising organic fertilizer containing soil fertility promoting bacteria from controlled composting of urban wastes" in 2013. **(Year of Enrolment 2004)**
12. Dr. Hafiz Abdullah Shakir has been awarded the degree of Doctor of Philosophy after approval of his thesis entitled "Enteric Bacterial and heavy metals' load and health status of fishes from river Ravi, Pakistan" in 2013. **(Year of Enrolment 2006)**
13. Dr. Faiza Jabeen has been awarded the degree of Doctor of Philosophy after approval of her thesis entitled "Potential of Thermophilic Chitinolytic Bacteria for making Termite Resistant Chipboard" in 2013. **(Year of Enrolment 2008)**
14. Dr. Sumaira Aslam has been awarded the degree of Doctor of Philosophy after approval of her thesis entitled "Bacteria of Carbon and Nitrogen Cycles from a Chromium Influenced Area for Rehabilitating Contaminated Soils" in 2014. **(Year of Enrolment 2008)**
15. Dr. Ali Hussain has been awarded the degree of Doctor of Philosophy after approval of his thesis entitled "Implication of sulfidogenic bacteria in detoxifying metal contaminated environments" in 2014. **(Year of Enrolment 2010)**
16. Dr. Qurat-ul-ain Ahmad has been awarded the degree of Doctor of Philosophy after approval of his thesis entitled "Towards second generation non-aseptic ethanol and hydrogen fermentations employing extremophiles" in 2016. **(Year of Enrolment 2010)**

17. Dr. Sumera Siddiqui has been awarded the degree of Doctor of Philosophy after approval of his thesis entitled "Low cost single cell protein based fish feed for early culturing of *labeo rohita*" in 2017.
18. Dr. Maleeha Manzoor has been awarded the degree of Doctor of Philosophy after approval of his thesis entitled "Microalgal conversion of food industrial wastes into biodiesel and animal feed" in 2018.
19. Dr. Anam Javed has been awarded the degree of Doctor of Philosophy after approval of his thesis entitled "Efficacy of *Azadirachta indica* and *Solanum nigrum* for Skin Regeneration in Mice" in 2019.
20. Dr. Syed Zulfiqar Ali Abidi has been awarded the degree of Doctor of Philosophy after approval of his thesis entitled "Replacement of conventional piscicide with indigenous plat material: isolation, purification and its effects on target and non-target fish" in 2019.
21. Dr. Ishrat Perveen has been awarded the degree of Doctor of Philosophy after approval of his thesis entitled "Heterocyclic amines of cooked meats and their associated cancer risks in Pakistan" in 2019.
22. Dr. Nafeesa Batool has been awarded the degree of Doctor of Philosophy after approval of his thesis entitled "Biogas production from food waste and its cyanobacterial purification to methane" in 2020.
23. Dr. Hafiz Muhammad Abrar Awan has been awarded the degree of Doctor of Philosophy after approval of his thesis entitled "اُردو تفاسیر میں مشاہداتی حیاتیاتی علوم کا جدید سائنسی اکتشافات کے تناظر میں تحقیق و تجزیہ" (Research and Analysis of modern biological findings regarding observable attributes discussed in different Urdu Tafaseer) in 2020.
24. Dr. Farah Deeba has been awarded the degree of Doctor of Philosophy after approval of his thesis entitled "Low Cost Production of Bacterial Chitinases for the Control of Termites" in 2021.

#### **XVIII. EXTERNAL ASSESSOR/REVIEWER OF RESEARCH DISSERTATIONS/ PROPOSALS / PROJECTS/BOOKS/ RESEARCH PAPERS**

Have been appointed as B.Sc.(Hons) M.Sc, M.Phil and Ph.D. theses examiner and synopses evaluator of different Universities and research organizations of the Country. Some of the cases are mentioned below.

- 1 Reviewed research proposal, Genetic Engineering to Develop Resistance/Tolerance in Potato Cultivars (#788) for COMSTECH in 2006.
- 2 Acted as reviewer of research proposal of Higher Education Commission entitled "Development of an integrated whole-cell based biosensors to detect bioavailable organophosphates from environment" in 2007.
- 3 Acted as reviewer of HEC research proposal "Detection of paratuberculosis (John's disease) in domestic ruminants and animal products in 2007.
- 4 Acted as reviewer of HEC research proposal "The Weightage score table and the Review of Budget estimate are the two key decision making elements. School of Biological Science, University of the Punjab, Lahore, in 2007.

- 5 Acted as reviewer of HEC research proposal "The Weightage Score Table and the Review of Budget Estimate are the two key decision making elements. School of Biological Sciences, University of the Punjab, Lahore, in 2007.
- 6 Evaluated 1<sup>st</sup> Annual Progress report of research project "Development of an integrated whole-cell based biosensor to detect bioavailable organophosphates from environment" (#760, National Care Group in Life Sciences) in 2008.
- 7 Reviewed Urdu Book "Biotechnology and We" for National Commission on Biotechnology in 2005.
- 8 Acted as reviewer of research proposal of Higher Education Commission entitled "Development of an integrated whole-cell based biosensors to detect bioavailable organophosphates from environment" in 2011.
- 9 Acted as reviewer of HEC research proposal entitled "Isolation/ identification of pathogenic bacteria from buffalo bull semen: Development of high efficiency antibiotic combination to improve fertility rate" in 2007.
- 10 Evaluated Monograph on the Invertebrate Zoology wide letter No. HEC (FD)/2007/2129. dated September 16.2008.
- 11 Evaluated research paper "the pollution status of some selected rivers in Ado-Ekiti, Nigeria" for Pakistan Journal of Scientific and Industrial Research in 2006.
- 12 Evaluated a research proposal entitled "Molecular markers-assisted monitoring of major carps fishery stocks throughout Punjab for genetic enhancement". Submitted to HEC.
- 13 Acted as Subject Specialist to conduct interviews of posts of assistant professor (female) (BS-18) at F.G. college for women, federal directorate of education, devolved, ministry of education. June 04, 2012.
- 14 Acted as Subject Specialist to conduct interviews of posts of one hundred and one lecturers (female) (BS-17) directorate of federal government educational institutions (cantt/garrison) ministry of defence. June 08, 2012.
- 15 Reviewed the manuscript "impacts of pesticides on respiration rate of soil microbial community" – PJZ-1043-112 for Pakistan Journal of Zoology in 2013.
- 16 Reviewed the manuscript "Farinographic studies of mozzarella cheese at optimized conditions" PJZ-NIL-2013 for Pakistan Journal of Zoology on 02.05.2013.
- 17 Reviewed the manuscript "Use of Farinograph-e- for rheological study of quality cheese" PJZ-NIL-2013 for Pakistan Journal of Zoology on 29.05.2013.
- 18 Reviewed final progress report of project entitled "Development of an integrated system comprising of engineered bacteria based biosensors for the detection of bio-available toxic metals from environment. Vide letter No. 20-976/R&D/HEC/2006 696, dated 26.06.2014, for Higher Education Commission, Islamabad, on 03.07.2014.
- 19 Reviewed final progress report of project entitled "Development of an integrated whole-cell based biosensors to detect bioavailable organophosphates from environment. Vide letter No. 20-976/R&D/HEC/2006 700, dated 26.06.2014, for Higher Education Commission, Islamabad, on 03.07.2014.



- 20 Reviewed the article PJZ-1789-14; Identification of low-temperature oligotrophic and heterotrophic nitrifying bacteria and safety tests with ICR mice. Pakistan Journal of Zoology Published by Zoological Society of Pakistan.
- 21 Acted as Subject Specialist to conduct interviews of posts of Lecturers (Male) (BS-17), Directorate of federal government educational institutions (Cantts / Garissons, Ministry of defence at Federal Public Service Commission, Provincial Office, Lahore on 03.06.2015.
- 22 Acted as recruitment to Post(s) of associate professor of Biology and Zoology (Female) BS-19 in the Punjab Higher Education Department vide office order No. PS/KA-PPSC, dated 09.07.2015 on 14.07.2015 at 11:00 a.m.
- 23 Acted as Member Selection Board Recruitment to Post(s) of Lecturer of Biology (Female) BS-17 in the Punjab Higher Education Department vide Officer order No. PS/KA-PPSC, dated 05.10.2015.
- 24 Reviewed the progress report of Dr. Khalid Mehmood Anjum, Assistant Professor (TTS), Department of Wildlife & Ecology. Vide officer order No. WECO/1793, dated 26.08.2015.
- 25 Acted as Subject Specialists for conducting interviews for recruitment to the fourteen posts of lecturers (female) (BS-17), Federal government colleges for women, federal directorate of education, Islamabad, capital administration and development division, University of the Punjab, Lahore, vide officer order No. D/976/Est.I, dated 27.03.2017.
- 26 Acted as Reviewer on the book proposal on "Nucleus: Structure and Functions" from Dr. Tariq Ahmad Bhat on February 23, 2017.
- 27 Acted as Reviewer of the Project Proposal entitled "Study of association of genomic variants in beta-2 adrenergic receptor (ADBR2) and interleukin 4 receptor (IL4R) genes with Asthma in local Punjab patients of Pakistan, Project No. UOS/ORIC/I-363, dated Sep. 09, 2016. Vide officer order No. D/465/UZ, dated 15.03.2017.
- 28 Acted as external assessor to visit the Department of biochemistry for Ph.d. Program on behalf of Quality Enhancement Cell (QEC) on 27<sup>th</sup> July, 2017. Vide officer order No. UHS-QUC-17-751m dated 21<sup>st</sup> July, 2017.
- 29 Acted as an expert for selection board the applicants for the post of Assistant Professor of Zoology under TTS basis. Vide officer order No. UE/AR/2017/4485, dated September 27, 2017.
- 30 Acted as subject expert in animal sciences in the selection board held on November 07, 2017 at School of Biological Sciences, University of the Punjab, Lahore. Vide officer order No. SBS/784/17, dated 08.12.2017.
- 31 Acted as subject specialists for conducting interviews for recruitment to twenty senior teachers (female) (BS-17), F.G. School, Federal Directorate of Education. Capital Admin. And Development Division. Vide office order No. D/1262/Est-I, dated 14.04.2017.
- 32 Was interview by Main Hassan Bin Aamir, a bona-fide student of M.Sc. Communication Studies (Morning), 2<sup>nd</sup> Semester, Session 2016-18, at the Institute of Communication Studies, University of the Punjab, Lahore. Vide office order No. D/No/1842/ICS, dated 22.10.2018.
- 33 Mid probationary reviewer of 3 years' Progress Report of Dr. Shahzad Ali, Assistant Professor (TTS), Department of Wildlife and Ecology. UVAS, Lahore. Vide office order No. 856, dated, 16.08.2018.

- 34 Reviewed the article WAVE-D-19-00814 entitled "Co-production of amylase and protease by locally isolated thermophilic bacterium *Anoxybacillus rupiensis* T2 in sterile and non-sterile media using waste potato peels as substrate". Waste and Biomass Valorization. 11.11.2019.
  - 35 Acted as subject expert to participate in the 3<sup>rd</sup> meeting of the Selection Board, University of Okara, Okara for Interview for the posts of lecturer and assistant professor in Zoology vide office order No. UO/ADDL-REG/2019/452, dated 15.04.2019.
  - 36 Reviewed the application dossiers for the position of Professor of Zoology (BS-21/TTS), University of Okara, Okara vide office order No. UO/Addl.Reg(IMP)/2020/667, dated December 31, 2020.
  - 37 Reviewed the application dossiers for the appointment of Associate Professor in Biological Sciences (TTS-20), University of Baltistan, Skardu, vide office order No.D/3563/UZ, dated 31.12.2020.
  - 38 Reviewed the application dossiers for the appointment of Associate Professor in Biological Sciences (BPS-20), University of Baltistan, Skardu, vide office order No.D/3562/UZ, dated 31.12.2020.
  - 39 Reviewed the application dossiers for the appointment of Professor in Biological Sciences (BPS-21), University of Baltistan, Skardu, vide office order No.D/3561/UZ, dated 31.12.2020.
  - 40 Reviewed the application of the candidates for the post of associate professor Zoology (BPS-20), Pir Mehr Ali Shah, Arid Agriculture University, Rawalpindi, vide office order No.PMAS-AAUR/5050, dated 19.11-2020.
  - 41 Evaluated 6 years performance of Dr. Ali Hussain, Assistant Professor, University of Veterinary and Animal Sciences, Pattoki Campus vide letter No. D/1119/UZ, dated 21.05.2021.
  - 42 Acted as subject specialist to assist the Commission in the interviews for sixty two post of Lecturer (Female) (BS-17), Islamabad Model College, Federal Directorate of Education, Ministry of Federal Education and Professional Training vide office order No. D/1532/Est-I, dated 26.04.2021.
  - 43 Acted as subject specialist to assist the Commission in the interviews for twenty posts of Assistant Professor (Male) (BS-18), Federal Government Education Institutions (FGEI) (CANTTS/GARRISONS), Ministry of Education, vide office order No. D/1511/Est-I, dated 20.04.2021.
  - 44 Evaluated research publications of the candidates for the post of Associate Professor of Zoology, University of Education, Lahore vide letter No. UE/Mgt/2021/35, dated 26.01.2021.
- 1- EVALUATION AND EXAMINATION OF RESEARCH THESES OF OTHER INSTITUTES.**
- 1- Conducted Ph.D. thesis "Preparation of multiple conjugates (LPS-Protein) for immunization against typhoidal diseases" examination of Mr. Amir Ali scholar of NIBGE on 20-8-09 at National Institute of Biotechnology and Genetic Engineering, Faisalabad.
  - 2- Conducted B.S (Hons) thesis "Incidence of Coliforms and Salmonella in Semi-Coked Meat from Different Localities of Lahore" examination of Saira Ejaz (Environmental Science Session: 2006-2010 Lahore College of Women University, Lahore.).
  - 3- Conducted B.S (Hons) thesis "Microbial Analysis of Different Drinking Water Source in Danyore, Gilgit-Baltistan" examination of Rakhshinda Bano (Environmental Science Session: 2006-2010 Lahore College of Women University, Lahore.).

- 4- Evaluated Ph.D. Synopsis Proposal entitled "Evaluation and Application of Microbial Metabolites for the Treatment of Soil Contaminated with Tannery Wastes" prepared by Ms. Farkhanda Jabeen a candidate for admission to Ph.D. program (Zoology) in GC University Lahore.
- 5- Conducted Ph.D. thesis "Molecular characterization and potential use of begomovirus associated DNA 1 as a silencing / expression vector" examination of Mr. Muhammad Shafiq Shahid scholar of NIBGE on 24.02.2010 at National Institute of Biotechnology and Genetic Engineering, Faisalabad.
- 6- Evaluated M.Phil Thesis "Cutaneous Leishmaniasis In Afghan Refugees and Local Population of NWFP (Pakistan) with Special Reference to the Use of Modern Molecular Diagnostic and culture Techniques" of Mr. Arif Shah, Department of Zoology, University of the Pashawar, Pashawar.
- 7- Conducted M.Sc. thesis "Antibacterial activity of *Curcuma longa* (Turmeric) and *Glycerrhiza glabra* (Malathi) on the bacterial flora of tannery wastes" examination of Mr. Chand Raza, GC University Lahore.
- 8- Conducted M.Sc. thesis "Study of body flora of cockroach under wild conditions" examination of Umair Sadiq Bhatti, GC University Lahore.
- 9- Conducted M.Sc. thesis "Sensitivity profile of the bacterial flora of tannery wastes against *Tamarindus indica* (Imli) and *Zingiber officinale* (Ginger)" examination of Ms. Safia Rehman, GC University Lahore.
- 10- Conducted B.S (Hons) Research dissertation on "Studies on the production of glucose oxidase from *thermophilic asperillus* Sp in shake flask" of Samina Rafiq (2010 GC University Lahore).
- 11- Evaluated B.Sc. (Hons) research Dissertation on "Optimization of Nutritional requirements for the production of endoglucanase by fungal Co-Culture" of Mamoon Talat (2010 GC University Lahore).
- 12- Evaluated and Viva voce Examination of M.Phil in Zoology of Abdual Rehman and Kamran Tassadaque (2005) at Institute of Pure and Applied Biology, Bahauddin Zakaria University, Multan.
- 13- Evaluated Ph.D. Synopsis of Mr. Muhammad Yousaf in Zoology (2005) at Institute of Pure and Applied Biology, Bahauddin Zakaria University, Multan.
- 14- Acted as referee of Ph.D. Synopsis or Miss Asma Karim entitled "Immunological manifestation of endsulfan and malathion intoxication in *Cyprinus carpio* with vitamin C and E used as antioxidants" at GC University, Lahore in 2005.
- 15- Evaluated and conducted viva voce examination entitled "Engineering of microbial (Fungal) glucoamylases by chemical modification techniques for industrial application" in 2009 of Mr. Muhammad Riaz. NIBGE Faisalabad.
- 16- Evaluated of Ph.D. Synopsis of B.Z. University, Multan and Govt. College University, Lahore.
- 17- Evaluated Ph.D Synopses of Bahauddin Zakariya University Multan, and Government College University Lahore.
- 18- Acted as External Examiner for conducting oral defense of Ph.D Thesis of Mr. Muhammad Shafiq Shahid, Scholar of NIBGE of Quaid-e-Azam University. In 2010.
- 19- Evaluated M.S. thesis and conducted the viva voce entitled "Cloning and Expression of a Synthetic Cadmium Metallothionein Gene (PMCD1syn) of Paramecium Species". School of Biological Sciences, University of the Punjab, Quaid-e-Azam Campus, Lahore. In 2011.
- 20- Evaluated and conducted the viva voce examination of M. Phil thesis (2011) of Shamsa Jabeen entitled "Sodium fluoride exposure related changes of behavior, hematology and ossis-histopathology and the mitigating outcomes of co-treatment of jambul (*syzygium cumini*) fruit extract in mice" Department of Biological Sciences, University of the Sargodha, Sargodha.

- 21- Evaluated and conducted the viva voce examination of M. Phil thesis (2011) of Asma Younis entitled "Cypermethrin induced teratological studies against protective role of juice of *Citrus limetta* in Mice". Department of Biological Sciences, University of the Sargodha, Sargodha.
- 22- Acted as examiner and conducted oral examination / viva voce of Ph.D. scholar-Mr. Muhammad Ali # CIIT/FA06-PBS-001/ISB for his thesis "Efficiency of DTP vaccine in Local Population and Development of Rapid Diagnostic Techniques for Microbes" of COMSATS Institute of Information Technology. November 3, 2011.
- 23- Evaluated M.Phil Thesis "Cypermethrin induced teratological .....Mice" of Ms. Amsa Younis, Department of Biological Sciences, University of Sargodha. Sargodha. January 14, 2012.
- 24- Evaluated M.Phil Thesis "Sodium Fluoride Exposure ..... in Mice" of Ms. Shamsa Jabeen, Department of Biological Sciences, University of Sargodha. Sargodha. January 14, 2012.
- 25- Acted as examiner and conducted oral examination / viva voce of Ph.D. scholar Ms. Noreen Azhar for her thesis entitled "Molecular studies and bioinformatic analysis of industrially important protease coding genes in metagenomic extracts and pure isolates from extremophilic environment" of Center of Biotechnology and Microbiology, University of Peshawar,( 10.09.2012).
- 26- Acted as examiner and conducted oral examination / viva voce of Ph.D. scholar Mr. Usman Waheed for his thesis entitled "Detection and molecular characterization of foot-and-mouth disease virus" of National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad/ Quaid-i-Azam University, Islamabad (Pakistan) May, 2012.
- 27- Acted as external examiner for conduction of the defence/viva voce examination of Ph.D. thesis entitled "Risk assessment of pesticides exposure in female agriculture workers using biochemical and genotoxic biomarkers" submitted by Ms. Tayyaba Ali, scholar of National Institute of Biotechnology and Genetic Engineering (NIBGE), Faisalabad (an affiliated institute of Quaid-i-Azam University, Islamabad). October 13, 2012.
- 28- Acted as external examiner for conduction of the defence/viva voce examination of M.Phil. thesis of Mr. Soban Tufail student of National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad. October 13, 2012.
- 29- Acted as external examiner for conduction of the defence/viva voce examination of M.Phil. thesis of Mr. Shahbaz Ali student of National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad. October 13, 2012.
- 30- Acted as external examiner for conduction of the defence/viva voce examination of M.Phil. thesis of Ms. Samina Shaheen student of National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad. October 13, 2012.
- 31- Acted as external examiner for conduction of the defence/viva voce examination of M.Phil. thesis entitled " Molecular Genetics of Hypotrichosis in Pakistan Population" of Mr. Abubakar Moawia student of Bioinformatics and Biotechnology GC University, Faisalabad. October 13, 2012.
- 32- Evaluated and conducted viva voce examination of M.Phil Thesis "Teratological effects of cypermethrin with co-treatment of vitamin E enriched with olive oil in chick" of Mr. Kamran Shehry, Department of Biological Sciences, University of Sargodha. Sargodha. Pakistan, March 08. 2013.
- 33- Evaluated and conducted viva voce examination of M.S. Thesis "Cloning and expression of C-terminally truncated Cry1Ac gene of *Bacillus thuringiensis*" of Ms. Rubina Mushtaq, School of Biological Sciences, University of the Punjab, Lahore. Pakistan, May 28. 2013.
- 34- Evaluated and conducted viva voce examination of M.Phil Thesis "Assessment of Parathyroid and Adrenal Functions following treatment with selenium and ascorbic acid in Hexavalent chromium treated Laboratory Rats" of Ms. Kanwal Fatima, Department of Animal Sciences, Faculty of Biological Sciences, Quaid-e-Azam University, Islamabad, on 16-08-2013.

- 35- Evaluated and conducted viva voce examination of M.Phil Thesis “Cell Culture Contaminant, Member of Alpha Proteobacteria” of Mr. Muhammad Tahir Asghar, School of Biological Sciences, University of the Punjab, Lahore, Pakistan, on 27.08.2013.
- 36- Evaluated and conducted viva voce examination of Ph.D. Thesis “Biochemical And Molecular Characterization of Extended Spectrum Beta-lactamases (ESBL) Producing Enterobacteria Isolated From Clinical Samples” of Mr. Muhammad Asif Habeeb, Department of Biotechnology (NIBGE) Pakistan Institute of engineering and Applied Sciences, Nilore-45650 Islamabad, Pakistan on 11-09-2013.
- 37- Evaluated examination of M.Phil Thesis “Endemicity of Malarial parasite in blood of Karachi people and control of its vector by phyto-pesticides” of Ms. Rabia Faiz, Department of Zoology, University of Karachi, Karachi-75270, Pakistan. 23-10-2013.
- 38- Evaluated and conducted viva voce examination of M.Phil Thesis “Morphometric characterization of *Apis dorsata* honey bee species of districts Nankana, Narowal and Sialkot” of Ms. Iram Nasir, Department of Wildlife and Fisheries, G.C. University, Faisalabad. 08.10.2013.
- 39- Evaluated and conducted viva voce examination of M.Phil Thesis “Molecular characterization of *Apis dorsata* honey bee species from district Nankana and Narowal by using rapid marker technique” of Ms. Um-e-Habiba Zafar, Department of Wildlife and Fisheries, G.C. University, Faisalabad. 08.10.2013.
- 40- Evaluated and conducted viva voce examination of Ph.D. Thesis “Molecular characterization of chromosomal and extrachromosomal elements related to drug resistance against *Salmonella* enteric serovar Typhi isolates from Pakistan” of Ms. Amna Afzal, School of Biotechnology, National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad and Quaid-i-Azam University (QAU), Islamabad. 18-11-2013.
- 41- Evaluated and conducted viva voce examination of M.Phil Thesis “Development of multiple mutants of *corynebacterium glutamicum* for lysine over-production” of Ms. Javaria Nisar, Department of Bioinformatics & Biotechnology, Government College University, Faisalabad. 18-11-2013.
- 42- Evaluated and conducted viva voce examination of M.S. Thesis “Production of cellulose from delignified *saccharum spontaneum* through *trichoderma viride*” of Ms. Hira Naeem, Department of Biotechnology, Lahore College for Women University, Lahore. ----11-2013.
- 43- Evaluated and conducted viva voce examination of M.S. Thesis “Production of bioethanol from cellulolytic bacteria of *odontotermes odesus* and *odontotermes guptai* employing agro-industrial waste” of Ms. Sana Pervaiz, Department of Biotechnology, Lahore College for Women University, Lahore. ----11-2013.
- 44- Evaluated and conducted viva voce examination of M.S. Thesis “Bioethanol Production potential of *Saccharomyces cerevisiae* by separate hydrolysis and fermentation of delignified *saccharum spontaneum*” of Ms. Komal Aftab, Department of Biotechnology, Lahore College for Women University, Lahore. ----11-2013.
- 45- Evaluated and conducted viva voce examination of M.Phil Thesis “Effect of Ethanolic Extract of *Cissus quadrangularis* on Growth Kinetics of Cultured Renal Distal Tubule Epithelial Cells, MDBK” of Ms. Tahira Batool, School of Biological Sciences, University of the Punjab, Quaid-e-Azam Campus, Lahore, Pakistan. on 21.03.2014.
- 46- Evaluated and conducted viva voce examination of Ph.D. Thesis “Transgenic Expression of Insecticidal Toxins under Different Promoters for the Control of Insect Pests” of Mr. Syed Allah Dino Shah, National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad, Pakistan. on 02.04.2014.
- 47- Evaluated and conducted viva voce examination of Ph.D. Thesis “Preparation of polysaccharide-protein conjugates of Vi negative *Salmonella Typhi* as potential candidates for vaccines” of Mr. Muhammad Salman, National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad, Pakistan. on 03.06.2014.

- 48- Evaluated and conducted viva voce examination of Ph.D. Thesis “ Molecular studies for regulation and over expression of tylosin from *Streptomyces fradiae* NRRL-2702” of Ms. Shazia Khaliq, National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad, Pakistan. on 09.06.2014.
- 49- Evaluated M.Phil Thesis “Susceptibility of *leishmania tropical* kwh10 to buparvaquone, miltefosine and glucantime using amastigote-thp-1-j774 in vitro models” of Ms. Anbareen, Department of Zoology, University of Peshawar, Pakistan on 01-07-2014.
- 50- Evaluated and conducted viva voce examination of Ph.D. Thesis “ Osteogenic Potential of Herb, *Cissus quadrangularis*: Effect of Ethanolic Extract on Differentiation of Mouse Pre-Osteoblast Cell Line, MC3T3-E1” of Ms. Raazia Tasadduq, School of Biological Sciences, University of the Punjab, Lahore, Pakistan, on 16.07.2014.
- 51- Evaluated and conducted viva voce examination of M.Phil Thesis “Molecular characterization of Newcastle disease virus by multiplex RT-PCR from chicken” of Ms. Asima Tabassum, Department of Zoology, Wildlife & Fisheries, GC University, Faisalabad, Pakistan, 20.10.2014.
- 52- Evaluated and conducted viva voce examination of Ph.D. Thesis “Molecular diagnosis and prevalence of Brucellosis in N.W.F.P. Pakistan” of Mr. Rashid Mahmood, National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad, Pakistan. School of Biotechnology, Quaid-i-Azam University, Islamabad, Pakistan on 05.12.2014.
- 53- Evaluated and conducted viva voce examination of Ph.D. Thesis “Molecular characterization of virulence genes and drug resistance of local human isolates of *Shigella* species” of Ms. Aaysha Tariq, National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad, Pakistan and Quaid-e-Azam University, Islamabad, Pakistan on 11.12.2014.
- 54- Evaluated and conducted viva voce examination of M.Phil Thesis “Expression, partial purification of CueR and its transcriptional control in the presence of silver in *Klebsiella Pneumoniae*” of Ms. Madiha Shad, School of Biological Sciences, University of the Punjab, Lahore, Pakistan on 23.01.2015.
- 55- Evaluated and conducted viva voce examination of Ph.D. Thesis “ Molecular Characterization of *Vibrio cholera* Isolates from Pakistan” of Mr. Muhammad Ali Shah, Department of Biosciences, CIIT Islamabad Campus on March 09, 2015.
- 56- Evaluated and conducted viva voce examination of Ph.D. Thesis “ Isolation and functional characterization of high affinity potassium transporter (HKT) gene in yeast and expression profiling in tobacco (*Nicotiana tabacum*)” of Mr. Khurram Shahzad, National Institute for Biotechnology & Genetic Engineering (NIBGE), Faisalabad, Pakistan on March 30, 2015.
- 57- Evaluated and conducted viva voce examination of M.Phil Thesis “ Evaluation of metal resistant capability of bacterial isolates from industrial soil samples and effluents” of Ms. Sidra Kabir Khan, GC University Lahore, on 03.04.2015.
- 58- Evaluated and conducted viva voce examination of Ph.D. Thesis “ Biotechnological manipulations of chitosan polymer for biomedical applications” of Ms. Ijaz Bano, on 14.05.2015.
- 59- Evaluated and conducted viva voce examination of Ph.D. Thesis “ Molecular sub-typing of rotaviruses causing infection in children” of Ms. Tayyba Iftikhar, Department of Biotechnology (NIBGE) Pakistan Institute of Engineering and Applied Science Nilore-45650, Islamabad, Pakistan. On 16.06.2015.
- 60- Evaluated and conducted viva voce examination of Ph.D. Thesis “Characterisation of the matrix protein of Newcastle Disease Virus” of Ms. Nida Iram, Department of Biotechnology (NIBGE) Pakistan Institute of Engineering and Applied Science Nilore-45650, Islamabad, Pakistan. On 12.01.2016.
- 61- Evaluated and conducted viva voce examination of M.Phil Thesis “ CRISPR/HDR mediated PCSK9 knockout in human hepatocellular carcinoma cell lines (HepG2) and insertion of function LoxP flanked green fluorescent protein” of Mr. Khayam Javed, on 17.10.2016.

- 62- Evaluated and conducted viva voce examination of M.Phil theses of
- 63- Evaluated and conducted viva voce examination of Ph.D. thesis entitled “Elucidation of Molecular Genetic Basis of Schizophrenia and Primary Microcephaly in Pakistani Population” of Ms. Ambrin Fatima Department of Biotechnology (NIBGE) Pakistan Institute of Engineering and Applied Science Nilore-45650, Islamabad, Pakistan. On 16.08.2016.
- 64- Evaluated and conducted viva voce examination of M.Phil thesis entitled “Copper Responsive Genes Confer Resistance to Gold in *Klebsiella pneumoniae* KW” of Ms. Abeedha Tu-Allah on 25.07.2016 at School of Biological Sciences, University of the Punjab, Lahore.
- 65- Evaluated and conducted viva voce examination of M.Phil thesis entitled “Feeding preferences and diversity of avian species inhabiting district hafizabad” of Ms. Nayab Ashiq on 24.06.2016, Faculty of Fisheries and Wildlife, University of Veterinary and Animal Sciences, Lahore.
- 66- Evaluated and conducted viva voce examination of M.Phil thesis entitled “Comparative study between the GeneXpert MTB/RIF assay® and conventional PCR for the detection of Rifampicin resistance in pulmonary tuberculosis patients in central Punjab” of Ms. Saira Nasim on 23.11.2016, Department of Biotechnology, University of Sargodha, Sargodha.
- 67- Evaluated and conducted viva voce examination of M.Phil thesis entitled “Molecular identification of *Mycobacterium tuberculosis* in liquid wastes of hospitals in Lahore” of Bakhtawer Bashir on 23.11.2016, Department of Biotechnology, University of Sargodha, Sargodha.
- 68- Evaluated and conducted viva voce examination of M.Phil thesis entitled “Molecular identification of *Mycobacterium tuberculosis* from its natural reservoirs” of Ms. Fouzia Lal Gill on 23.11.2016, Department of Biotechnology, University of Sargodha, Sargodha.
- 69- Evaluated and conducted viva voce examination of M.Phil thesis entitled “Investigation of Isoniazid resistance in Rifampicin resistant *Mycobacterium tuberculosis* in pulmonary tuberculosis patients from central Punjab” of Ms. Uzma Rafiq on 23.11.2016, Department of Biotechnology, University of Sargodha, Sargodha.
- 70- Evaluated and conducted viva voce examination of M.Phil thesis entitled “Clinical relevance of Janus kinase 2(Jak2)V617F mutation in myeloid type leukemia” of Ms. Sumyiea Riaz Malik on 23.11.2016, Department of Biotechnology, University of Sargodha, Sargodha.
- 71- Evaluated and conducted viva voce examination of M.Phil thesis entitled “Study of Fossil *Artiodactyla* from Dhok Pathan, Middle Siwalik Hills of Punjab, Pakistan” of Mr. Omer Draz on 29.08.2016 at Government College University Faisalabad.
- 72- Evaluated and conducted viva voce examination of M.Phil thesis entitled “Some new remains of even toed mammals from the late Miocene of Siwaliks, Pakistan” of Ms. Mamoona Nazish on 29.08.2016 at Government College University Faisalabad.
- 73- Evaluated and conducted viva voce examination of M.Phil thesis entitled “Study on the effects of dietary lactulose and phytase enzyme on intestinal short chain fatty acid composition and meat quality of broiler chickens” of Mr. Muhammad Yousaf on 29.08.2016 at Government College University Faisalabad.
- 74- Evaluated and conducted viva voce examination of M.Phil thesis entitled “Hormonal Sex inversion in common carp (*Cyprinus carpio*) by immersion method” of Mr. Saleem Akhtar on 29.08.2016 at Government College University Faisalabad.
- 75- Evaluated and conducted viva voce examination of M.Phil thesis entitled “Integrated Pest Management of Okra Fruit Borer (*Earias* spp. Noctuidae, Lepidoptera)” of Mr. Muhammad Azeem on 29.08.2016 at Government College University Faisalabad.
- 76- Evaluated dissertation submitted by the Sana Ilyas for the award of BA/BSc (Hons) degree entitled “Evaluation of reproductive fitness of *Wolbachia*-infected *Aedes aegypti*”. GC University Lahore. Vide officer order No. 396/C.Exam, dated 21.07.2017.

- 77- Evaluated dissertation submitted by the Waqar Asim Zia for the award of BA/BSc (Hons) degree entitled "Evaluation of *Wolbachia*-induced dengue virus inhibition in *Aedes aegypti*". GC University Lahore. Vide officer order No. 396/C.Exam, dated 21.07.2017.
- 78- Evaluated and conducted viva voce examination of M.Phil thesis entitled "Isolation and identification of biosurfactants producing bacteria from contaminated environments" of Mr. Hafiz Waseem Arshad on 11.10.2017 at GC University Lahore vide officer order No. 2557/C.Exam, dated 11.10.2017.
- 79- Evaluated and conducted viva voce examinations of Ph.D. thesis in Biotechnology entitled "The role of ribosome bindings sites sequence and spacer length between binding sites and initiation codon on CRY2 expression in *Bacillus Host*" of Ms. Roma Adalat, on 03<sup>rd</sup> December 2018 at Department of Biotechnology, Lahore College for Women University, Lahore under Reg. 11-Ph.D/LCWU/20262 vide officer order No. 10965, dated 30.11.2018.
- 80- Evaluated and conducted viva voce examination of the M.Sc. Zoology thesis of Miss Andleeb Aslam, Department of Zoology, Government College University, Lahore, vide office order No. D/436/E)(A), dated 03.09.2018.
- 81- Evaluated and conducted viva voce examinations of Ph.D. thesis of Mr. Muhammad Tahir Nazir, Department of Zoology, University of the Punjab, Lahore vide office order No. D/1142/UZ, and R/1781/Dean Life Sc. dated 03.09.2018.
- 82- Internal examiner to conduct the thesis examinations of M. Abrar Yousaf BS(Hons), vide office order No. D/1216, dated 30.08.2018.
- 83- Evaluated and conducted viva voce examinations of M.Phil. thesis of Ms. Aniqa Arzoo, University of Sargodha, Sargodha. vide office order No. UOS/Secrecy/Zol-040, dated 12.07.2018.
- 84- Evaluated BA/B.Sc Dissertation/Project of Rabia Mushtaq entitled "*Wolbachia* induces density and localization pattern in various somatic tissues of *Aedes aegypti* females" at GC University Lahore, vide office order No. 4927/C.Exam, dated 17.07.2018.
- 85- Evaluated BA/B.Sc Dissertation/Project of Zunaira Tahir entitled "Evaluation of walbB induced *Wolbachia* density and in reproductive tissues of *Aedes aegypti* females" at GC University Lahore, vide office order No. 5168/C.Exam, dated 23.07.2018.
- 86- Conducted viva voce and thesis examination of M.Phil thesis of Mr. Amir Zohaib, Department of Zoology, University of the Punjab, Lahore vide office order No. D/466/UZ, dated 26.03.2018.
- 87- Conducted viva voce examination of M.A/M.Sc. Part-II Supply Examination 2017, paper (Zoology) (Fundamentals of Microbiology) at Department of Zoology, University of the Punjab, Lahore vide office order No. 1526 AS/II, dated 26.02.2018.
- 88- Evaluated and conducted viva voce examination of M.Phil in Biotechnology of Ms. Qamar Gulnaz, University of Sargodha, Sargdha. Vide office order No. UOS/Secrecy/Bio-tec/036, dated 09.02.2018.
- 89- Evaluated and conducted viva voce examination of M.Phil in Biotechnology of Ms. Fouzia Kanwal, University of Sargodha, Sargdha. Vide office order No. UOS/Secrecy/Bio-tec/032, dated 09.02.2018.
- 90- Evaluated and conducted viva voce examination of MS in Zoology of Ms. Izzah Butt entitled "Analysis of estrogen levels among hypothyroid females during reproductive age in Rawalpindi, Punjab, Pakistan". University of Gujrat, Gujrat. Vide office order No. UOG/ASRB/Zoology/02/17458, dated 24.09.2019.
- 91- Evaluated and conducted Oral Examination / viva voce examination of Ph.D. Scholar Saadiya Zia entitled "A co-relation study of telomere length and genetic predisposition to acute lymphoblastic leukemia among Pakistani Population". COMSATS University Islamabad. Vide office order No. CUI/CoE/FA13-PBM-001/ISB/97053, dated 26.04.2019.



- 92- Evaluated BA/BSc dissertation/project of Faiza Ramzan and Aymen Naseem, GC University, Lahore vide office order No. 5938/C.Exam, dated 30.07.2019.
- 93- Acted as Internal Examiner to conduct the thesis examination, BS (Hons) Session 2015-19 of Ms. Kainat Shaker and Saba Asghar, Department of Zoology, University of the Punjab, Lahore vide office order No. D/929/UZ, dated 01.08.2019.
- 94- Acted as Internal Examiner to conduct Viva voce / thesis examination of MS/M.Phil Zoology, Morning Program (Fall Session 2017-19) of Ms. Pakeeza Tanveer, Department of Zoology, University of the Punjab, Lahore vide office order No. D/883/UZ, dated 22.07.2019.
- 95- Acted as Internal Examiner to conduct Practical/Viva-voce examination of M.A/M.Sc. Part-II Annual Examination 2019, Paper (Zoology) (6) Microbiology 'A' (General Microbiology), Department of Zoology, University of the Punjab, Lahore vide office order No. 2648 As/II, dated 11.07.2019.
- 96- Acted as Internal Examiner to conduct Practical/Viva-voce examination of M.A/M.Sc. Part-II Annual Examination 2019, Paper (Zoology) (11) Fundamentals of Microbiology, Department of Zoology, University of the Punjab, Lahore vide office order No. 2648 As/II, dated 11.07.2019.
- 97- Evaluated and conducted viva voce examination of M.Phil degree in Biological Sciences of Ms. Zainab Nasir, entitled "Isolation and identification of Anti-adipogenic components from ethyl acetate fractions of *Cissus quadrangularis*". School of Biological Sciences, University of the Punjab, Lahore vide office order No. Nil, dated 29.06.2019.
- 98- Evaluated and conducted viva voce examination of Ph.D. degree in Zoology of Ms. Sana Shahbaz, Department of Zoology, University of the Punjab, Lahore vide office order No. 4700/VC, dated 07.05.2019.
- 99- Evaluated research publications of Dr. Muhammad Khisroon, Dr. Farrah Zaidi, Dr. Shahid Niaz Khan and Dr. Syed Basit Rasheed for the post of Associate Professor of Zoology, Department of Zoology, University of Peshawar, Peshawar, vide office order No. 181/Meetings, dated 11.03.2019.
- 100- Evaluated and conducted Oral Examination / viva voce examination of Ph.D. Scholar Ms. Rubina Mushtaq School of Biological Sciences, University of the Punjab, Lahore, vide office order No. 558-Ph.D/19, dated 26.02.2019.
- 101- Evaluated and conducted viva voce examination of MS Scholar Ms. Samina Chaudhry, VU ID: MS170200390, Virtual University of Pakistan, vide office order No. VU/CE/19/00261, dated 05.03.2019.
- 102- Evaluated and conducted viva voce examination of Ph.D. Thesis in Biotechnology of Ms. Asma Shahzad entitled "Mycosynthesis of silver nanoparticles: optimization, characterization and their antimicrobial and cytotoxic activity". Lahore College for Women University, Lahore, vide office order No. 844, dated 06.03.2019.
- 103- Evaluated and conducted viva voce examination of MS Thesis of Ms. Shumaila Rani, University of Gujrat, Gujrat on 22.02.2019, vide office order No. UOG/ASRB/Zoology/02/14185, dated 20.02.2019.
- 104- Acted as Internal Examiner to conduct Viva voce / thesis examination of M.Phil Zoology (In-service Program) Session 2016-19 of Mr. Ghulam Dustgeer and Saba Saleem, Department of Zoology, University of the Punjab, Lahore vide office order No. D/180/UZ, dated 04.02.2019.
- 105- Evaluated M.Phil Thesis of Bibi Anisa Batool, Government College University Lahore, on 23.06.2020, vide office order No. 2372/C.Exam, dated 23.06.2020.
- 106- Evaluated and Conducted Viva voce examination of B.Sc. Part-II Annual Examination 2020 at Govt. Degree College Murree from 07-11-2020 to 09-11-2020, vide letter No. 4014-AS/II, dated 27.10.2020.

- 107- Acted as External Examiner for comprehensive examination 2020 for Ph.D. students admitted in 2019 of School of Biological Sciences, University of the Punjab, Lahore, vide office order No. SBS/346/20, dated 18-09-2020.
- 108- Evaluated and Conducted Viva voce examination of MS/M.Phil Zoology Morning (Fall Session 2018-20), vide letter No. D/1639/UZ, dated 04.09.2020.
- 109- Evaluated and Conducted Viva voce examination of BS Zoology, Lahore College for Women University, Lahore, vide letter No. 2974-B, dated 28.08.2020.
- 110- Evaluated and Conducted Viva voce examination of BS Zoology, Lahore College for Women University, Lahore, vide letter No. 2442-B, dated 20.08.2020.
- 111- Evaluated and conducted viva voce examination of Ph.D. thesis of Mr. Nisar Ahmad Shakir, School of Biological Sciences, University of the Punjab, Lahore on 16.03.2020, vide letter No. SBS/131/20, dated 09-03-2020.
- 112- Evaluated and conducted viva voce examination of Ph.D. thesis of Ms. Bushra Azmat, National Institute for Biotechnology and Genetic Engineering College (NIBGE-C), Faisalabad vide letter No. DY/100/Dean(R), dated 04.02.2020.
- 113- Evaluated and conducted viva voce examination of MS/M.Phil thesis of Ms. Khadija Tabussam, Govt. College University, Faisalabad vide letter No. 31894, dated 02.01.2020.
- 114- Evaluated and conducted viva voce examination of MS/M.Phil thesis of Ms. Aneesa Fatima, Govt. College University, Faisalabad vide letter No. 31893, dated 02.01.2020.
- 115- Evaluated and conducted viva voce examination of MS/M.Phil thesis of Mr. Muhammad Naveed, Govt. College University, Faisalabad vide letter No. 31892, dated 02.01.2020.
- 116- Evaluated and conducted viva voce examination of MS/M.Phil thesis of Ms. Ammara Kausar, Govt. College University, Faisalabad vide letter No. 31895, dated 02.01.2020.
- 117- Evaluated and conducted viva voce examination of MS/M.Phil thesis of Mr/Ms. Somi Akram Masih, Govt. College University, Faisalabad vide letter No. 31891, dated 02.01.2020.
- 118- Evaluated and conducted viva voce examination of MS/M.Phil thesis of Ms. Jameela Kousar, Govt. College University, Faisalabad vide letter No. 31899, dated 02.01.2020.
- 119- Evaluated Ph.D. thesis of Ms. Komal Tayyab, Department of Zoology, Government College Women University Faisalabad (GCWUF), dated 26.09.2021.
- 120- Evaluated and conducted viva voce examination of Ph.D. thesis of Ms. Iram Ashfaq, Department of National Institute of Biotechnology & Genetic Engineering College (NIBGE-C), Faisalabad vide letter No. DY/565/Dean(R), dated 15-09-2021.
- 121- Evaluated and conducted viva voce examination of BA/BSc Dissertation/Project of Ms. Namra Waris, GC University Lahore vide office order No. 5727/C.Exam, dated 25.08.2021.
- 122- Evaluated and conducted viva voce examination of BA/BSc Dissertation/Project of Mr. Hafiz Muhammad Sultan Farooqi, GC University Lahore vide office order No. 5687/C.Exam, dated 24.08.2021.
- 123- Evaluated and conducted viva voce examination of BA/BSc Dissertation/Project of Mr. Muhammad Shoaib, GC University Lahore vide office order No. 5687/C.Exam, dated 24.08.2021.
- 124- Evaluated and conducted viva voce examination of BA/BSc Dissertation/Project of Mr. Samar Ullah, GC University Lahore vide office order No. 5687/C.Exam, dated 24.08.2021.
- 125- Evaluated and conducted viva voce examination of MS/M.Phil thesis of Ms. Kainat Shaker, Institute of Zoology, University of the Punjab, Lahore vide letter No. D/1403/UZ, dated 07.07.2021.
- 126- Evaluated and conducted viva voce examination of MS/M.Phil thesis of Ms. Noor Fatima, Institute of Zoology, University of the Punjab, Lahore vide letter No. D/1403/UZ, dated 07.07.2021.

- 127- Evaluated and conducted viva voce examination of MS/M.Phil thesis of Ms. Saman Iqbal, Institute of Zoology, University of the Punjab, Lahore vide letter No. D/1403/UZ, dated 07.07.2021.
- 128- Evaluated and conducted viva voce examination of MS/M.Phil thesis of Ms. Shah Khanum, Institute of Zoology, University of the Punjab, Lahore vide letter No. D/1400/UZ, dated 07.07.2021.
- 129- Evaluated and conducted viva voce examination of MS/M.Phil thesis of Ms. Saba Asghar, Institute of Zoology, University of the Punjab, Lahore vide letter No. D/1400/UZ, dated 07.07.2021.
- 130- Evaluated and conducted viva voce examination of MS/M.Phil thesis of Ms. Safa Imran, Institute of Zoology, University of the Punjab, Lahore vide letter No. D/1400/UZ, dated 07.07.2021.
- 131- Conducted thesis examination of BS(Hons) of Ms. Aliza, Institute of Zoology, University of the Punjab, Lahore vide letter No. D/1549/UZ, dated 03.08.2021.
- 132- Conducted thesis examination of BS(Hons) of Ms. Iqra Naeem, Institute of Zoology, University of the Punjab, Lahore vide letter No. D/1549/UZ, dated 03.08.2021.
- 133- Evaluated M.Phil thesis of Ms. Maha Shaukat, GC University, Lahore vide letter No. 2237/C.Exam, dated 10.03.2021.
- 134- Evaluated and conducted viva voce Examination of M.Sc. thesis of Ms. Maryam Habib, Lahore College for Women University, Lahore vide letter No. EXAM/LCWU-1624-B, dated 14.07.2021.
- 135- Evaluated and conducted viva voce Examination of M.Sc. thesis of Ms. Maryam Nigar, Lahore College for Women University, Lahore vide letter No. EXAM/LCWU-1624-B, dated 14.07.2021.
- 136- Evaluated and conducted viva voce Examination of M.Sc. thesis of Ms. Hina Latif, Lahore College for Women University, Lahore vide letter No. EXAM/LCWU-1624-B, dated 14.07.2021.
- 137- Evaluated and conducted viva voce Examination of BS thesis of Ms. Wajeeha Salamat, Lahore College for Women University, Lahore vide letter No. EXAM/LCWU-1621-B, dated 14.07.2021.
- 138- Evaluated and conducted viva voce Examination of BS thesis of Ms. Asmara Akbar, Lahore College for Women University, Lahore vide letter No. EXAM/LCWU-1621-B, dated 14.07.2021.
- 139- Evaluated and conducted viva voce Examination of BS thesis of Ms. Semoona Zahid, Lahore College for Women University, Lahore vide letter No. EXAM/LCWU-1621-B, dated 14.07.2021.

**XIX. AS RESOURCE PERSON / ADVISOR/ EVALUATOR/ SUBJECT SPECIALIST/EXPERT/ REFREE/VISITING PROFESSOR**

1. I have been appointed, regularly external examiner for paper setting and conducting practical and viva voce examinations since last 15 years for various courses including Biochemistry, Cell Biology, Molecular Biology, Developmental Biology, Microbiology Cytogenetics, Haematology and Immunology etc. for B.Sc. (Hons.), M.Sc., M.Phil and Ph.D. examinations conducted by different Universities of the countries e.g., Bahauddin Zakariya University, Multan, Peshawar University, G.C. University, Lahore. Lahore (Women) G.C. University, Govt. College University Faisalabad and post graduate medical institute Lahore.
2. Conducted two training programmes for Master Teachers Trainers, from November 4 to 18, 1993 and from December 2 to 16, 1993, organized by Institute for the Promotion of Science Education and Training (IPSET), Islamabad.
3. Delivered extension lecture on Bioremediation and demonstrated practicals regarding staining of microorganisms to participants of College Teachers Refresher Course, during 1996 summer vacation, organized by the University Grants Commission, Regional Centre, 55-B/2 Gulberg-III, Lahore.

4. Have been teaching Comparative Anatomy to M.Phil. Students of Postgraduate Medical Institute, Lahore, Fatima Jinnah and Federal Postgraduate Medical Institute, Lahore, since 1995.
5. Acted as secretary for Section of Biology: Botany: Zoology: Entomology and Cytogenetics of 31<sup>st</sup> All Pakistan Science Conference in 1996, Held at College of Veterinary Sciences, Lahore.
6. Was recommended by the Institute's Governing Board of Editors for biographical inclusion in the Seventh Edition of INTERNATIONAL DIRECTORY OF DISTINGUISHED LEADERSHIP by the Editorial Board, American Biographical Institute, inc. (ABI) in 1997.
7. Demonstrated laboratory skills to participants of College Teachers Refresher Course organized by University Grants Commission in 2002.
8. Taught courses on Biology and Environmental Biology to B.Sc. (Hons.) students of Institute of Environmental Sciences, University of the Punjab, Lahore. From 2001 to 2003.
9. Taught a course "Biology II" to M.S.Ed. students of Institute of Education and Research, Punjab University, Lahore, in 2002
10. Taught Environmental Microbiology to M.Sc. students of Postgraduate Centre for Earth Sciences, University of the Punjab, Lahore, from 2002 to 2005.
11. Delivered extension lectures on "Microbiologically influenced corrosion" every year from 2004 to 2007 to the participants of Intensive courses on corrosion management and integrity of coating-cathodic protection system. The course is organized by Institute of Chemical Engineering and Technology University of the Punjab, Lahore. Pakistan Institute of Chemical Engineers and Society of Corrosion Engineers Pakistan.
12. Taught Zoology and Microbiology courses to B.Sc. (Hons) students of Institute of Biochemistry and Biotechnology, Punjab University Lahore.
13. Was appointed and served as Advisors for interview for recruitment to the posts of Lecturers of Zoology (Male) in the Punjab Education Department, Govt. Of Punjab, by Punjab Public Service Commission in 2005.
14. Was appointed and served as Subject Specialist for recruitment to the post(s) of Lecturers (Female) Zoology, F.G. College for Women, Ministry of Education, Govt. of Pakistan by Federal Public Service Commission in 2005.
15. Was invited and participated in meeting of National Core Group in Life Sciences with the senior members in Life Sciences Departments Punjab University Lahore, on 15-12-2005 held at HEC original centre Lahore.
16. Was appointed expert and interviewed candidates for Assistant / Associate Professor at Forman Christian College, Lahore, on 10<sup>th</sup> June, 2005.
17. Was appointed expert and reviewer by National Commission on Biotechnology, Ministry of Science & Technology, Govt. of Pakistan, to review Urdu book, "Biotechnology and We". In 2005.
18. Have been listed in the list of Authors "Scienci musanfeen ki directory" Published by Urdu Science Board in 2005.

19. Reviewed Subject MCQs as Member of Subject Committee of National Testing Service, Pakistan in 2006.
20. Acted as Co-Chairperson of Session 8 of Section 1 of 26<sup>th</sup> Pakistan Congress of Zoology held at University of the Punjab Lahore. April 6, 2006.
21. Acted as member Judging panel for the provincial science Olympiad on 2nd -3rd February Held at Al-Hamra Hall, Lahore.
22. Delivered extension lecture and on-hands experimental demonstration on "Identification of yeasts" to participants of the Higher Education Commission workshop on "Identification and conservation of Micromycetes" held at Department of Mycology and Plant Pathology, University of the Punjab, Lahore (From 20<sup>th</sup> to 25<sup>th</sup> August, 2007).
23. Delivered an extensive lecture (6 hours) on Animal Anatomy and Physiology to participants of 5<sup>th</sup> National Biology Talent Contents training camp at National Institute of Biotechnology & Genetic Engineering, Faisalabad, Pakistan on 27<sup>th</sup> Jan., 2009.
24. Was appointed as visiting Professor for delivering lectures on Cell Biology to M.Phil (Anatomy) students of Fatima Jinnah medical College, Lahore.
25. Was appointed as Expert for selecting Assistant Professor (Zoology) in University of Education, Lahore, on 09-05-2009.
26. Was appointed as Expert for selecting Assistant Professors (Zoology) in Gujrat University, Gujrat (7<sup>th</sup> November, 2009).
27. Delivered an extensive lecture (6 hours) on Animal Anatomy and Physiology to participants of 6<sup>th</sup> National Biology Talent Contents training camp at National Institute of Biotechnology & Genetic Engineering, Faisalabad, Pakistan on January 8, 2010.
28. Evaluation candidates for the Post of Professor (Zoology) in BS-21 as well as for Associate Professor in BS-20 in University of Education, Lahore. 2010.
29. Was nominated as expert of Department of Biosciences for Selection Board of the Department of Biosciences COMSATS. Institute of Information Technology Sahiwal Campus. On April 13.2010.
30. Acted as expert / subject specialist in the selection meeting of Tenure Track System (TTS) in Zoology, GC University, Faisalabad in 2011.
31. Acted as expert in the Meeting of Selection Board for lecturer (BPS-18) in subject of Zoology, GC University, Faisalabad. On 26-05-2011.
32. Participated in Focus Group Meeting on Laboratory Equipment organized by STEDEC Technology Commercialization Corporation of Pakistan, Held in PCSIR Lahore on 28.06.2011.

33. Acted as Chairman during Academic Session 32<sup>nd</sup> Pakistan Congress of Zoology (International). Government College University, Lahore. March 6-8, 2012.
34. Evaluation of candidates for the post of associate professor (BPS-20) Zoology, Lahore College for Women University, Jail road Lahore, vide office order No. Reg./LCWU/538, dated 20.03.2013.
35. Evaluated candidature of Associate Professor for Department of Meteorology COMSAT Institute of Information Technology Islamabad. Dated 03.21.2013.
36. Acted as Judge for 1<sup>st</sup> Women Inter Collegiate and University Science Model and Poster competition On "Impact of Biotechnology in today's world" March, 12<sup>th</sup> 2013.
37. Acted as subject expert of biological sciences for the appointment of Assistant Professor (Tenure Track System) in 11<sup>th</sup> Meeting of the university selection board at Karakoram International University Islamabad on April 27, 2013.
38. Acted as Chairman during Academic Session 34<sup>th</sup> Pakistan Congress of Zoology (International) Bahauddin Zakariya University, Multan. February 25-27, 2014.
39. Acted as Organizer of 34<sup>th</sup> Pakistan Congress of Zoology (International), Bahauddin Zakariya University, Multan. February 25-27, 2014.
40. Acted as Expert in the selection board for the post of Associate and Assistant Professors Zoology at University of Gujrat (UOG) on 17.04.2014.
41. Delivered extension lectures on: 1. Proper use of light microscope (March, 2014) and 2. Continuously varying genetic traits (20.03.2014) to the participants of subject specialists training at the institute of staff development, Govt. of Punjab, Lahore.
42. Acted as Jury member for Presentations, Audio Presentations and Poster Evaluation at the occasion of National Science Communication Challenge (NSCC 2014) held at Center of Excellence in Molecular Biology (CEMB) on 5<sup>th</sup> September 2014 organized by American Society for Microbiology (ASM) and National Academy of Young Scientists (NAYS), Pakistan.
43. Acted as expert in selection board of GCU Lahore on 18.09.2014.
44. Was nominated as expert to evaluate in detail candidate for appointment of associate professor in the discipline of fisheries & aquaculture at Ravi campus, Pattoki vide letter No. Regr/Admin/1504, dated 19-12-2014, at University of Veterinary and Animal Sciences.
45. Acted as expert in selection of Dr. Asim Iqbal, and Dr. Rehana Mushtaq, Assistant Professors, Department of Zoology, University of Balochistan vide office order No. RUB/Estt:/601-01, dated 29.06.2015.
46. Acted as expert in Selection Board for the Appointment of Assistant Professors And Lecturers in the Subject of Zoology at GC Women University, Sialkot vide office order No. GCWU/REG/15/91, dated 16.02.2015.
47. Acted as Organizer, Workshop on Dengue Management, Institute of Agricultural Sciences, University of the Punjab, Lahore on 21<sup>th</sup> December 2015.

48. Acted as Organizer, 5th International/10th National Conference of Pakistan Phytopathological society, Crop protection for sustainable agriculture. November 23-25, 2015.
49. Acted as Organizer, National Conference & Training workshop on Wildlife & Aerobiology 6th and 7th February 2015, Environmental Health & Wildlife, Department of Zoology, University of the Punjab, Lahore, Pakistan.
50. Acted as Subject Expert of Selection Board for Teaching Staff, The Women University Multan at 10:15 A.M on 18.01.2017.
51. Acted as Organizer, 37<sup>th</sup> Pakistan Congress of Zoology (International), organized by Government College University, Faisalabad on February 28 – March 2, 2017.
52. Acted as Subject Expert Selection Board for Teaching Staff to be held on Wednesday, 18-01-2017 in the committee Room of Vice-chancellor's Office, The Women University Multan, vide officer order No. EST-I/WUM/17-161/D, dated 12.01.2017.
53. Acted as Expert to interview the applicant for the post of Assistant Professor (Zoology on TTS basis) at University of Education, College Road Township, Lahore on 09.09.2018, vide office order No. UE/R/2018/3601, dated September 05, 2018.
54. Acted as subject expert for selection board for promotion as Professor/Associate Professor (TTS), School of Biological Sciences, University of the Punjab, Lahore on August 08, 2018 vide office order No. SBS/423/18, dated 02.08.2018.
55. Acted as Paper-Setter and External Examiner in subject of Applied Microbiology, Zool-417, B.S. 4 years programme 7<sup>th</sup> semester exam 2020, University of the Punjab, Lahore, vide office order No. 2792/A.S-II, dated 07.11.2020.
56. Acted as Paper-Setter and External Examiner in subject of General Microbiology, Zool-415, B.S. 4 years programme 7<sup>th</sup> semester exam 2020, University of the Punjab, Lahore, vide office order No. 2792/A.S-II, dated 07.11.2020.
57. Acted as Subject Expert of Zoology in the 28<sup>th</sup> Meeting of the selection board, University of Okara. At committee room of Oriental College, University of the Punjab (Old Campus), Lahore for the selection of Assistant Professors (Zoology), vide letter No. UO/ADDL-REG(GEN)/2020/621, dated February 27, 2020.
58. Acted as Subject Expert for the posts of Lecturer, Zoology (BPS-18), University of Jhang, Jhang vide letter No. UOJ/Regr/Admn/2021/2403, dated 16.07.2021.
59. Acted as Subject Expert in the 33<sup>rd</sup> Meeting of the selection board, University of Okara vide letter No. UO/PS2VC/2021/1739, dated 12.07.2021.
60. Acted as Subject Expert for the post of Assistant Professor, Zoology (PBS-19), University of Jhang vide letter No. UOJ/Regr/Admn/2021/2157, dated 21.05.2021.

## **XX. SEMINARS/ CONFERENCES/ WORKSHOPS AND SHORT COURSES**

1. Attended and got first position in a 40-day course on "Tafseer-ul-Quran" at Murree, in 1983.

2. Attended workshop on "latest developments, in molecular biology and biotechnology" from 26-31 March, 1994, held at University Grants Commission, Regional Centre, 55-B/2 Gulberg-III, Lahore.
3. Attended workshop on latest developments in Molecular Biology, held at National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, from March 24 to 31, 1996, organized by University Grants Commission, Islamabad.
4. Attended Bee-keeping training course from June 11-13, 1996, offered by PARC Honey Bee Research Institute and Department of Zoology, University of the Punjab, Lahore.
5. Participated in the workshop on "Ozone Depleting Substances", held in Lahore on March 18-19, 1998, organized by Environmental Protection Department (EPD), Govt. of Punjab.
6. Participated in workshop on Networking and Capacity Building in Global change research, Islamabad, Pakistan (20-22 November 2000), organized by ASIANICS Agro-Dev. International.
7. Participated in Symposium – Workshop on the Application on Molecular Biological Research in Agriculture and Health (March 27-31, 2004), held at National center of Excellence in Molecular Biology, University of the Punjab Lahore.
8. Attended Faculty Development Workshop (26<sup>th</sup> and 28<sup>th</sup> February 2005) organized by Human Resource Development Centre, University of the Punjab, Lahore.
9. Was selected after a thorough selection procedure and participated in Digital Library Workshop scheduled Biological Sciences Resources online on 2<sup>nd</sup> June 2005. The workshop was organized by Higher Education Commission, Govt. of Pakistan and held in Main Library, University of the Punjab, Lahore.
10. Participated in first meeting of Lahore Bio-Forum (13-15, March 2006) held at the twin centre for Molecular Biology, University of the Punjab, Lahore.
11. Participated in the workshop "Biochemical Engineering and Fermenter Application" (19<sup>th</sup> August, 2006) organized by Institute of Biochemistry and Biotechnology held at University of the Punjab, Lahore and Bioengineering, Switzerland.
12. Attended seminar on water purification by Helmut Gideon (SG Water Germany) organized by and held at Institute of Biochemistry and Biotechnology University of the Punjab, Lahore on 22<sup>nd</sup> March 2007.
13. Attended 1<sup>st</sup> Symposium of Microbiology and Molecular Genetics Genomics, Proteomics, Metabolomics: Recent trends in Biotechnology 22<sup>nd</sup> – 23<sup>rd</sup> October 2007. Organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore.
14. Acted as Co-Chairperson of Session 5 of Section 1 of 27<sup>th</sup> Pakistan Congress of Zoology held at B.Z. University Multan. February, 28<sup>th</sup> 2007.
15. Attended Seminar on "Functional Genomics of Marine Hydrocarbonoclastic Bacteria" held on 2008 at College of Environmental sciences, University of Bangor Wales, U.K.
16. Attended a workshop on Fragment Analysis (CEQ- Training) on April 11<sup>th</sup>, 2008 held at School of Biological Sciences Bangor University, Wales, U.K.



17. Participated actively in "Negotiation Skills" workshop in 2008 organized by the Academic unit of Bangor University, Wales, U.K.
18. Attended College of Natural Sciences Ph.D. conference held on 16, June 2008. at Brambell Building, Bangor University.
19. Attended seminar on Media and Public Awareness lectured by Lord Dr. Shaukat-Nawaz held on March 5<sup>th</sup> , 2009 at Undergraduate Center, University of the Punjab, Lahore.
20. Attended seminar on Mass Spectrometry lectured by Prof. Dr. David L. Smith, Emeritus Prof. of Chemistry, University of Nebraska, Lincoln, NE68006 USA held from March 30<sup>th</sup>-31<sup>st</sup> 2009 at Institute of Chemistry, University of the Punjab, Lahore.
21. Attended Symposium on "Modern Biotechnology: A Resource for Sustainable Development" (4<sup>th</sup> July 2009) organized by Department of Microbiology and Molecular Genetics held at Pearl Continental Hotel , Shalimar Hall, Lahore.
22. Acted as Chairman of Session 4 (Section I) of 29<sup>th</sup> Pakistan Congress of Zoology held at University of Sindh, Jamshoro on February 25, 2009.
23. Acted as Chairman in 30<sup>th</sup> Pakistan Congress of Zoology held at University of Agriculture Faisalabad March 2-4, 2010.
24. Attended a workshop on "Working with proteins in post-genomic era". January 06-07, 2010 organized by School of Biological Sciences, University of the Punjab, Lahore.
25. Attended 3<sup>rd</sup> International conference on "Statistical Sciences" (November 25-27-2010) organized by College of Statistical and Actuarial Sciences University of the Punjab, Lahore. In collaboration with Higher Education Commission of Pakistan at Faisal Auditorium new Campus-University of the Punjab, Lahore.
26. Acted as Chairman during Academic Session of 31<sup>st</sup> Pakistan Congress of Zoology (International) University of Azad Jammu & Kashmir, Muzaffarbad. April 19-21, 2011.
27. Acted as Chairman in one day National Seminar on the Awareness & Current Status of Rabies Organized by University of Veterinary & Animal Sciences, Lahore held on July 28, 2011.
28. Participated in one day symposium on "DNA barcoding: a promising tool for species identification and biodiversity digitization" January 20, 2012. National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad.
29. Attended seminar on "Molecular Signaling for Fat and Bone Synthesis" by Prof. Dr. Amjad Javed, Institute of Oral Health Research School of Dentistry, University of Alabama at Birmingham USA on Thursday, March 29, 2012 at 11:30 AM in School of Biological Sciences University of the Punjab, Lahore.
30. Participated in two days workshop on "Potential biotech industry for entrepreneurs in Pakistan" at NIBGE, Faisalabad on 18-19 April, 2012.
31. Participated by presenting posters on bioenergy research in Invention to innovation Summit June 18, 2012 win "Innovation award" Conducted at Al-Razzi Hall, Centre for Undergraduate Studies, University of the Punjab, Lahore.

32. Participated National Seminar on Current Status of Food Industry in Pakistan: Threats and Challenges. September 06, 2012. Organized by PCSIR Laboratories Complex, Lahore.
33. Was invited and Acted as Guest Judge in Biotech Exhibition 2013 1st Women Inter Collegiate and University Science Model and Poster Competition on "Impact of Biotechnology in today's world" held on March, 12th 2013, at Department of Biotechnology, Bushra Mateen Building. Lahore College for Women University, Lahore.
34. Acted as Chairman during Academic Session of 33<sup>rd</sup> Pakistan Congress of Zoology (International) Pakistan Museum of Natural History, Islamabad and PMAS Arid Agriculture University, Rawalpindi held on April 2-4, 2013.
35. Participated as member in National curriculum revision committee final meeting in zoology, held on April 8-10, 2013 at HEC regional center, Peshawar.
36. Organized seminar on Danguue: virology and pathogenesis for which Dr. Abdul Haque, Deputy Chief Scientist NIBGE was invited as guest speaker on 27.03.2013.
37. Acted as Chair of session: Bioremediation & Risk Assessment on 24.04.2013 in International Conference on "Biotechnology: Prospects & Challenges in Agriculture, Industry, Health and Environment" from April 22-26, 2013, NIBGE, Faisalabad, Pakistan.
38. Was invited and Addressed to launching ceremony of the book "Ecosystem of Pakistan volume 2" by Z.B. Mirza by Government of Pakistan, Ministry of National Heritage and Integration, Urdu Science Board 299- Upper Mall, Lahore on 28.08.2013 at F.C. College Gulburg, Lahore.
39. Acted as Chair of session: Entomology, Parasitology, Microbiology Session 5 on 08.05.2014 in International Conference on Innovative Biological and Public Health Research (IBPHR-2014), organized by Department of Zoology GC University, Lahore. May 06-08-2014.
40. Participated in International Conference on Innovative Biological and Public Health Research (IBPHR-2014), at Department of Zoology, Government College University, Lahore on May 06.08.2014.
41. Participated in Seminar on Biosafety & Quality Assurance in Microbiology, Saturday 7th June, 2014, Organized by Department of Microbiology, The Children's Hospital & The Institute of Child Health, Lahore.
42. Acted as Coopted Expert to interviews the candidates for post of assistant professor in subject of animal and microbial sciences. School of Biological Sciences, University of the Punjab, Lahore – 54590, Pakistan on May 2&3, 2014.
43. Participated in the Meeting of the Departmental Tenure Track Review Committee (DTRC) at Institute of Agricultural Sciences, University of the Punjab, Lahore on 4<sup>th</sup> February 2014.
44. Gave a presentation on "Viable production of second and third generation biofuels in Pakistan" in International Conference on Bio-Energy Bio-Hydrogen, Bio-Methane as Alternative Fuel and its Conversion into CNG From Waste Water held on 26-27th August 2014 with collaboration of Lahore Chamber of Commerce & Industry & PCSIR Lahore Held at LCCI Lahore.
45. Participated and gave an invited talk entitled "Scientific perspicacity must not ignore suitable developing countries for production of economically viable second and third generations

biofuels” in 2nd International Symposium on Energy Challenges and Mechanics, held at Aberdeen, Scotland, U.K. on 19-21 August, 2014.

46. Participated in the Indigenous on-Campus Training Program for Management Team at University of the Punjab in collaboration with Higher Education Commission on November 17-21, 2014.
47. Participated in the International Conference on Relativistic Astrophysics at Department of Mathematics, University of the Punjab, Lahore-Pakistan, on February 10, 2015.
48. Participated and attended the annual Aerosol Society The Science of Airborne Particles Conference at University of Birmingham, U.K. 12<sup>th</sup> November 2015.
49. Acted as expert for nomination of subject specialist for conducting interviews for recruitment to the posts of lecturers (Male) (BS-17), Directorate of Federal Government Education Institutions (Cantts/Garissions, Ministry of Defence), vide officer order No. D/1951/Est-I, dated 26.05.2015.
50. Acted as expert for provision of subject specialists for conducting interviews for recruitment to the twenty four posts of lecturers (Female) (BS-17), Federal Government Colleges for Women, Federal Directorate of Education, Islamabad, Capital Administration and Development Division, vide office order No. D/4206/Est.I, dated 12.10.2015.
51. Participated in 40th Meeting of the board of Governors of the National Centre of Excellence in Molecular Biology, University of the Punjab, vide officer order No. CEMB/BOG-40/2015, dated 22.10.2015.
52. Member for the national technology council, Higher Education Commission, Islamabad, vide office order No. D/4958/Est.I, dated 04.12.2015.
53. Participated in 124th Convocation Reception Committee, University of the Punjab, Lahore. Vide office order No. D/771/R, dated 03.11.2015.
54. Chairman, Grant of Annual /Advanced and Performance Based Increments to the Faculty Members working under TTS at this University. Vide office order No. D/1184/Est.I, dated 06.04.2015.
55. Chairman, Meeting of Centre for Applied Molecular Biology (CAMB) and Centre of Excellence in Molecular Biology to look after the affairs of labs/Hostels and infrastructure for best utilization for CAMB, Vide office order No. D/3496/Dean Life Sc. Dated 09.10.2015.
56. Convener, Departmental Scholarship & Financial Assistance Committee (DS&FAC), Department of Zoology, University of the Punjab, Lahore, w.e.f. 15.09.2015, vide officer order No. D/865/R, dated 30.11.2015.
57. Participated in Meeting of Qualification Equivalence Determination Committee (QEDC) of Higher Education Department. Vide office order No. SO(Univ.)10-1/2015, dated 25.08.2015.
58. Participated in Workshop on 5th Invention to innovation summit 2016, Innovation Expo to Buy and Sell Technology, March 2nd and 3rd, 2016, University of the Punjab, Lahore.
59. Organized and attended symposium on “Infectious Diseases, Prevention and Control, at Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore and PFIZER, Pakistan on April 13, 2016.

60. Participated in the conference of "Working Ethics in Light of Seerat-e-Nabvi (SAW), Dr. Tariq Sharifzada at Department of Examinations, University of the Punjab, Lahore, on March 10, 2016.
61. Attend the Lecture on "Perception of Pakistan in Europe in the context of contemporary political challenges" (Keynote speaker, Prof. Dr. Agnieszka Kuszewska of University of Social Sciences and Humanities, Poland) at Pakistan Study Centre, University of the Punjab, Lahore, vide officer order No. Ref77-108 Psc, dated 12-04-2016.
62. Participated in H.E.C. video conference meeting on "Higher Education Testing Council Testing System of H.E.C. Pakistan" on 15.04.2016.
63. Attended the meeting of Strategic Export Control Division (SECDIV) on 26<sup>th</sup> July, 2016 at 01:p.m., in the Auditorium at Institute of Biochemistry & Biotechnology, vide office order No. D/700/R, dated 21/07/2016.
64. Attended the workshop as Patron in Chief entitled "Hands on Training workshop on clinical diagnostics" Jointly organized by Institute of Biochemistry and Biotechnology and Center for Applied Molecular Biology, University of the Punjab, Lahore on October 18-21, 2016.
65. SECDIV Outreach visit as Director, Institute of Biochemistry and Biotechnology on 26<sup>th</sup> July, 2016 at 01:00 p.m., in the auditorium at Institute of Biochemistry and Biotechnology along with all the faculty members and research scholars vide letter No. D/700/R, dated 21.07.2016.
66. Acted as Judge for the BSLI Design, Budget and Working: A Competition seminar organized by Biosafety and Bio-resource Committee, University of the Punjab on 16<sup>th</sup> May 2016 vide office order No. D/778/MMG, dated 16.05.2016.
67. Participated in the workshop "World Quality Day" on April 05, 2016 organized by University of the Punjab and Virtual University of Pakistan.
68. Organized 2<sup>nd</sup> one day workshop on "Hands on Practice of Atomic Absorption Spectrophotometer" at Department of Zoology, University of the Punjab, Lahore on April 23<sup>rd</sup>, 2016.
69. Organized and Participated one day International Symposium on "Infectious Diseases, Prevention & Control" Institute of Biochemistry and biotechnology, University of the Punjab, Lahore on 13<sup>th</sup> April 2016.
70. Participated as project exhibitor in the 5<sup>th</sup> Invention to Innovation Summit 2016 The Innovation Expo to Buy and Sell Technology at University of the Punjab, Lahore on March 2-3, 2016.
71. Organizer 36<sup>th</sup> Pakistan Congress of Zoology (International) organized by University of Sindh, Jamshoro on February 16-18, 2016.
72. Organize Beekeeping training workshop at Department of Zoology, University of the Punjab, Lahore on March 14-18, 2016.
73. Organized one day workshop on "Hands on Practice of Atomic Absorption Spectrophotometer" at Department of Zoology, University of the Punjab, Lahore on April 9<sup>th</sup>, 2016.

74. Attended Iqbal Memorial Lecture on “Need to re-read Iqbal and beyond” at Al-Razi Hall, Center for Undergraduate Studies, University of the Punjab, Lahore, on 26<sup>th</sup> April 2017.
75. Organizer 13<sup>th</sup> National Honeybee Farming and Management Training Workshop at Department of Zoology, University of the Punjab, Lahore on March 13-17, 2017.
76. Acted as Chairman 37<sup>th</sup> Pakistan Congress of Zoology (International), Organized by Government College University, Faisalabad on February 28 – March 2, 2017.
77. Acted as Co-chairman during academic session 37<sup>th</sup> Pakistan Congress of Zoology (International) Organized by Government College University, Faisalabad on February 28 – March 2, 2017.
78. Actively participated and made oral presentation in the 37<sup>th</sup> Pakistan Congress of Zoology (International) Organized by Government College University, Faisalabad on February 28 – March 2, 2017.
79. Participated in 6<sup>th</sup> International Fisheries Symposium & Expo-2017 entitled “Innovative and Sustainable Aquaculture for Blue Revolution” 8-9<sup>th</sup> February, 2017 at Faletti’s Hotel, Egerton Road, Lahore.
80. Organized one day workshop on “Hands on Practice of Basic Molecular techniques” at Department of Zoology, University of the Punjab, Lahore on February 11, 2017.
81. Participated in the workshop “World Quality Day” on February 08, 2017 organized by Quality Enhancement Cell, University of the Punjab Lahore.
82. Organizer the event titled: BSL1 Design, Budget and Working: A Competition Organized by Biosafety and Bio-resource Committee, University of the Punjab, on 25<sup>th</sup> April, 2017.
83. Attended Iqbal Memorial Lecture on the topic of “Need To Re-Read Iqbal and Beyond” on Wednesday 26<sup>th</sup> April 2017 at Al-Razi Hall, Center for Undergraduate Studies, University of the Punjab, Lahore.
84. Organized National Symposium on “Personalized Medicine: Detection, Diagnosis and Treatment” 25<sup>th</sup> May 2017 at Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore.
85. Participated in 2<sup>nd</sup> International Conference on Innovative Biological and Public Health Research (IBPHR-2017) on December 06-07, 2017 organized by Department of Zoology, GC University, Lahore.
86. Convener of the Hall and Seating Arrangements Committee, 126<sup>th</sup> Convocation of University of the Punjab, Lahore. Vide office order No. D/147/V.C., dated 29.11.2017.
87. Participated in the opening ceremony of the 2<sup>nd</sup> International Symposium on “Advances in Molecular Biology of Plants and Health Sciences” on Tuesday November 21, 2017 at Riazuddin Auditorium, National Centre of Excellence in Molecular Biology, University of the Punjab, Lahore.
88. Acted as Patron in International Conference on Trends & Prospects in Molecular Biosciences on October 23-24, 2017 at Institute of Biochemistry & Biotechnology, University of the Punjab,

Lahore, Pakistan. Sponsored by Pakistan Academy of Sciences, Pakistan Society for Biochemistry and Molecular Biology.

89. Attended the 38th All Pakistan Science Conference “Energy Crisis and Their Solution in Pakistan” on 10th December 2018 at College of Earth and Environmental Sciences, University of the Punjab, Lahore.
90. Organizer one day symposium “Intergrated pest management for food safety” on December 13, 2018 in Department of Zoology with collaboration of C-Shine Group and ORIC, University of the Punjab, Lahore. Vide office order No. D/1704/UZ and 13846/VC, dated 23.11.2018.
91. Participated and acted as Guest in one day symposium titled “DNA in Crime Investigation” organized by Centre for Applied Molecular Biology, University of the Punjab, Lahore, vide office order No. CAMB/D/359/18, dated 02.04.2018.
92. Participated and gave lecture for lead in 3rd International Conference on Biosciences-2018, organized by Biological Society of Pakistan, GC University Lahore, Pakistan on May 9th to 11th, 2018.
93. Organizer, National Workshop on “Potential of Sericulture for Employment and Income Generation” organized by Department of Zoology, University of the Punjab, Lahore & Punjab Forestry Research Institute on February 15, 2018.
94. Organizer, 3rd Training workshop on “Hands on Practice of Basic Lab. Instruments” by Department of Zoology, University of the Punjab, Lahore on February 02, 2018.
95. Participated in one day Symposium on “Industrial Biotech & Biorefining” organized by Center for Applied Molecular Biology, University of the Punjab, Lahore on 25.01.2018.
96. Organizer, Training workshop on “Effective Time Management” by Department of Zoology & Career Counseling & Placement Centre, University of the Punjab, Lahore on January 08, 2018.
97. Participated in 3-days workshop on new curriculum of Zoology at LCWU, Syndicate Hall on April, 22<sup>nd</sup> – 24<sup>th</sup>, 2019
98. Organizer, International Conference of Punjab University 2019 “Recent Innovation in Molecular Sciences” November, 06-08-2019.
99. Organizer, 39<sup>th</sup> Pakistan Congress of Zoology (International), Zoological Society of Pakistan organized by Islamia College University, Peshawar on March 4-6, 2019.
100. Chief Organizer, International Symposium on Integrated pest management for food safety at Department of Zoology, University of the Punjab, Lahore on January 30, 2019.
101. Acted as expert regarding appointment of Professor in the Discipline of Fisheries & Aquaculture at Ravi Campus, Pattoki, University of Veterinary & Animal Sciences, vide office order No. Regr/Admin/Dr/1018, dated, 01.10.2019.
102. Participated in Symposium on Wildlife Conservation and Animal Rights on November 21, 2019. Organized by Zoology & Environmental Sciences Department, Kinnaird College for Women, Lahore.

103. Participated in one day International Symposium on World Fisheries Day, Support Sustainable Fishing & Fisheries Conservation on November 21, 2020. Organized by University of Education, Division of Science and Technology.
104. Acted as Invited Speaker in one day International Symposium on World Fisheries Day, Support Sustainable Fishing & Fisheries Conservation on November 21, 2020. Organized by University of Education, Division of Science and Technology.

**XXI. RESEARCH COLLABORATIONS AND CONSULTANCY:**

1. Ph.D. Students of my Lab. are visiting foreign Universities in Ph.D. split program awarded by HEC Govt. Pakistan at U.K. and USA for 6 months to 1 year period. In these visits they carry bacteria isolated in our Lab. and employ them in the advance labs. of the developed countries to delineate their biotechnological potential.
2. Students from other institutes such as Institute of chemistry, University of Punjab Lahore, GCU, Lahore. Lahore College for Woman University of Lahore and Lahore University seek guidance and are permitted to do their research work in my lab. following formal permission.
3. Research collaboration with environmental consultancies and options 100 commercial area, Cavalry ground Lahore Cantt for developing bioprocess treatment plant for local industries since 2004.
4. Granted and extended practical training to the scientist Ms. Neelam Nazir R&D officer for helping the working of Lahore Compost (pvt.) Ltd. during the years 2010 – 2011.
5. Ayesha Arshad, A student of M.Sc. Zoology, Virtual University of Pakistan did her internship under my supervision, vide office order No. Zoo 11/18, dated July 10, 2018.

**XXII. IMPORTANT CONTRIBUTIONS:**

1. Established a local repository of hundreds environmental and biotechnologically important bacterial and yeast isolates in the department of Zoology University of the Punjab.
2. Established environmental microbiology and industrial laboratory at department of Zoology, University of the Punjab, Lahore. Where facilities of Ph.D. level research work are available.
3. Have written several articles, books and translated books into Urdu for public science awareness. These have been published by Urdu Science Board ministry of Education, Pakistan as well by other reputed departments.
4. Developed courses of readings and laboratory demonstrations in the fields of microbiology and biotechnology relevant to our societal needs.

**XXIII. ADMINISTRATIVE EXPERIENCE:**

I have worked for 2 years as Hostel Warden at Federal Govt. Degree College (Men), H-9, Islamabad.

**XXIV. MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

1. Member, Biotechnology Society NIBGE, Faisalabad.
2. Life Fellow Zoological Society of Pakistan.
3. Life Fellow Biological Society of Pakistan.

4. Life Fellow Pakistan Fisheries Society.
5. Life fellow medical Research Society of Pakistan.
6. Remained member, Advisory Board, Pakistan Journal of Zoology.
7. Member, Editorial Committee, Punjab University Journal of Zoology.
8. Member, Board of Studies in Zoology, University of the Punjab, Lahore.
9. Member, Board of Studies in Microbiology, Hazara University, Mansehra NWFP, Pakistan.
10. Member, Board of Studies in Zoology University of Azad Jammu Kashmir Muzaffarabad.
11. Chairman, Equivalence Committee, University of the Punjab, Lahore.
12. Member, Departmental Tenure Track Review Committee (DTRC) of the Institute of Agricultural Sciences to evaluate/review the performance of the Faculty members working on TTS according to the relevant statutes.
13. Young Zoologist member Executive council, Zoological Society of Pakistan.
14. Was recommended by the American Biographical Institute, Inc. (ABI) Governing Board of Editors for biographical inclusion in the Seventh Edition of INTERNATIONAL DIRECTORY OF DISTINGUISHED LEADERSHIP in 1997.
15. Was declared eligible for the LEADING SCIENTIST OF THE WORLD medal by International Biographical Centre, Cambridge, England.
16. Was appointed as member Departmental Purchase Committee for Department of Zoology, University of the Punjab, Lahore, for the year 2006-07.
17. Member equivalence committee University of the Punjab, Lahore. Pakistan. from 14.05.2008 for two years.
18. Member, Mirpur University of Science and Technology (MUST), MIRPUR.
19. Member Disciplinary Committee for resolving cases for unfair means in the examinations of University of the Punjab, Lahore. From 2010 on-ward.
20. Member Academic Council University of the Punjab, Lahore.
21. Member of Inquiry Committee, University of the Punjab, Lahore.
22. Student advisor Department of Zoology, University of the Punjab, Lahore.
23. Co-ordinator Ph.D. In-Service Program. Department of Zoology, University of the Punjab, Lahore.
24. Member of HEC National Curriculum Revision Committee.
25. Member of Core Committee to Develop/ Strengthen the Punjab University Industry Linkages.
26. Was appointed member of the Advance Studies and Research Board for a period of three years w.e.f. 19.06.2014 by the academic council, University of the Punjab, Lahore. Vide notification No. 2061/P
27. Member Departmental Tenure Review Committee (DTRC) of the Centre for Undergraduate Studies vide office order No. D/5272/Est.I dated, 11.09.2014.
28. Member Editorial Board Pakistan Journal of Molecular Medicine. The University of Lahore, 1-km defense road, off Raiwind Road Lahore, Pakistan. Volume 01 (1-2), 2014.
29. Chairman Management Committee for Fish Research Farm, University of the Punjab, Lahore. No. D/254/R, Dated, 05.05.2015.
30. Member Departmental Tenure Review Committee (DTRC) of the GC University Lahore, Pakistan. Ref. No. Zool-5-1568/15, dated 27.05.2015.
31. Member Board of Studies in Pharmacy as Constituted under the University of the Punjab Act, 1973. No. D/2847.Acad, dated 25.06.2015.
32. Member and chairman of the Ethical Committee of the Zoology Department revised w.e.f. 18.06.2015. Ref. No. D/1170A/UZ, dated 18.06.2015.



33. Member of the Biosafety Bioresource Committee to review the research proposals of the faculty members and Ph.D. scholars of University of the Punjab, Lahore, vide office order No. D/657/R, dated 28.09.2015.
34. Member of 124<sup>th</sup> Convocation of University of the Punjab, Lahore, Pakistan, vide officer order No. R/3660/Dean Life Sc. Dated, 05.11.2015.
35. Member of Doctoral Program Coordination Committee (DPCC) for three years vide officer order No. D/051/R, dated 19/01/2016.
36. Member Board of Studies of Institute of Biochemistry & Biotechnology, University of the Punjab, Lahore. Vide office order No. Nil, dated 23.02.2015.
37. Member Enquiry Committee, Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore. Vide office order No. R/3521/Dean Life Sc., dated 15.10.2015.
38. Member Advanced Studies and Research Board, University of the Punjab, Lahore, Vide office order No. 4412/Acad, dated 30.09.2015.
39. Acting Dean, Faculty of Life Sciences, vide office order No. D/1477/Dean Life Sc., dated 14.09.2015.
40. Member, committee for preliminary hearing of appeals in the disciplinary cases for the Academic year 2016, vide office order No. D/ 233/R, dated 02.03.2016.
41. Convener Bioethics Committee to issue a clearance certificate to all applications sent to Higher Education Commission (HEC) under National Research Programme for Universities (NRPU) Projects, vide officer order No. D/361/R, dated 04.04.2016 to 10.12.2020. (vide office order No. D/631/R, dated 11.12.2020.
42. Member Congress Executive Committee, 37th Pakistan Congress of Zoology (International) 2017 on April 26, 2016 organized by the President Zoological Society of Pakistan.
43. Member Faculty of Fisheries and Wildlife, University of Veterinary and Animal Sciences, Lahore, Pakistan vide office order No. F/A/Rc/5326, dated 01.07.2016.
44. Member Punjab Bio Safety Committee and Technical Advisory Committee as per Punjab Bio-Safety Rules, 2014 vide officer order No. D/1029/R, dated 26.10.2016.
45. Member Implementation committee for adopting preventive measures against any possible spread of Dengue Fever on both the Campuses of University of the Punjab, Lahore, vide officer order No. D/827/R, dated 20.08.2016.
46. Member Departmental Doctoral Program Committee (DDPC) to deal with the matters relating to MS/M.Phil/Ph.D. Programs, Centre for Applied Molecular Biology vide letter No. R/3224/Dean Life Sc., dated 08.12.2016.
47. Member Management Committee for Department of Mosques, University of the Punjab, Lahore for a period of two years vide office order No. D/1111/R, dated 14.11.2016.
48. Chairman, Departmental Purchase Committee to deal with purchase of Equipments/Apparatus, Chemicals and Glasswares etc., at the Department of Zoology, University of the Punjab, Lahore, vide officer order No. D/1109/R, dated 14.11.2016.
49. Acting Director Centre for Applied Molecular Biology (CAMB), University of the Punjab, Lahore, vide officer order No. D/3196/Est-I, dated 03.08.2016.
50. Member book fair committee held on 07-09 April, 2016 at University of the Punjab, Lahore vide officer order No. D/222/R dated 01.03.2016.
51. Member Board of Studies, University of Gujrat, Pakistan vide letter No. UOG/ACD/16.2672, dated 19.01.2016.
52. Chairman, Management Committee for Zoological Museum, Department of Zoology, University of the Punjab, Lahore vide officer order No. D/416/R, dated 19.04.2016.
53. Official Member Lahore Zoological Gardens vide officer order No. 1941-49/MGT-22/ZMC/Zoo/2016, dated 29.03.2016.
54. Chairman, Committee regarding Grant of Advance/Annual Increment and Performance Based Increment/Honorarium to the Faculty Members working under Tenure Track System, University of the Punjab, Lahore vide officer order No. D/454/R, dated 28.04.2016.
55. Member, Zoologist of the Year Award 2017, committee, The Zoological Society of Pakistan, Department of Zoology, University of the Punjab, Lahore. On December 19, 2016.
56. Member Doctoral Programme Coordination Committee (DPCC) vide officer order No. 247, dated 01.04.2016.

57. Convener for Constitution of Committee to prepare/conduct the test at Par with GRE (General) & GRE (Subject) for Admission in MS/M.Phil and Ph.D. or Equivalent Programs vide officer order No. 7409/VC, dated 06.06.2016.
58. Acting Director, Institute of Biochemistry & Biotechnology and draw double duty allowance @ 20% of his basis pay vide office order No. D/2333/Est-I, dated 17.06.2016.
59. Chairman, Departmental Tenure Review Committee (DTRC) of the Department of Zoology, University of the Punjab, Lahore vide office order No. D/3700/Est-I, dated 01.09.2016.
60. Member Board of Studies, Centre for Applied Molecular Biology, University of the Punjab, Lahore vide officer order No. R/3219/Dean Life Sc., dated 07.12.2016.
61. Convener, Departmental Purchase and Technical Committee of the Institute of Biochemistry & Biotechnology vide officer order No. D/923/Est-I, dated 04.03.2016.
62. Chairman, Grant of Performance Evaluation Award for the year 2015 to the Faculty Members of University of the Punjab, Lahore vide officer order No. D/918/Est-I, dated 04.03.2016.
63. Member of the Fact Finding Committee of Institute of Applied Psychology, University of the Punjab, Lahore. Vide office order No. D/234/R, dated 02.03.2016.
64. Chairman, Academic Staff Association (ASA) Election Committee for ASA Elections 2017-18 on February 16, 2017 vide office order No. 40/PUASA, dated 17.01.2017.
65. Member Main Purchase & Indent Committee, University of the Punjab, Lahore, Pakistan vide office order No. D/117/R, dated 06.02.2017.
66. Chairman, House Allotment Committee for Non-Teaching Staff, University of the Punjab, Lahore, vide officer order No. D/526/R, dated 05.05.2017.
67. Member book fair committee held on 06 to 08 April, 2017 at University of the Punjab, Lahore vide office order No. D/324/R, dated 15.03.2017.
68. Member Board of Studies in Microbiology for a term of three years from the date of Notification at Bahauddin Zakariya University, Multan, BZU Campus, Multan (60800) Pakistan vide officer order No. Acad/BOS-Microbiology/1504, dated 14.02.2017.
69. Member, Meeting of the departmental doctoral program committee (DDPC) held on 18.05.2017 at 11:00 AM in the Director Office, Centre for Applied Molecular Biology, University of the Punjab, Lahore.
70. Chairman, Committee to manage, coordinate and supervise the Dengue eradication activities at University of the Punjab, Lahore, vide officer order No. D/701/R, dated 06.07.2017.
71. Chairman Committee to manage, coordinate and supervise the Dengue eradication activities at University of the Punjab, Lahore, vide officer order No. D/727/R, dated 11.07.2017.
72. Convener, Departmental Tenure Review Committee (DTRC) of the Institute of Biochemistry and Biotechnology, vide officer order No. 599/IBB, dated 08.06.2017.
73. Member, Transport Committee, University of the Punjab, Lahore. Vide officer order No. D/856/R, dated 12.08.2017.
74. Member Executive Council Zoological Society of Pakistan, Punjab, (2017-2020). Vide officer order No. Nil dated September 5, 2017.
75. Executive Member of Advisory Committee Urdu Science Board, Lahore. Vide officer order No. 746, dated 01.08.2017.
76. Member, Punjab University Graveyard Committee vide officer order No. D/1005/R, dated 13.09.2017.
77. Member of the Advance Studies and Research Board for a period of three years vide officer order No. 2981/P, dated 25.09.2017.
78. Member, Committee for Construction of Mosque at University Sports Ground, opposite Hailey College of Banking & Finance, University of the Punjab, Lahore. Vide officer order No. D/1274/R, dated 29.12.2017.
79. Member of the Convocation Coordination Committee, 126<sup>th</sup> Convocation of University of the Punjab, Lahore. Vide office order No. D/147/V.C., dated 29.11.2017.
80. Member Urdu Science Board for selection of Scientific Books for the Urdu Science Award vide office order No. 37(29)/2016-10-Admn-182, dated 13.06.2017.
81. Member, Curriculum Review Committee of Faculty of Life Sciences (Group-2), Quality Enhancement Cell, University of the Punjab, Lahore, vide office order No. D/281/QEC, dated 02.11.2017.

82. Chairman, Equivalence Committee for a period of two years. Vide office order No. 2970/Eq.Cell, dated 04.10.2017.
83. Member of the board of Faculty of Pharmacy, University of the Punjab, Lahore, vide office order No. D/2969/Acad, dated 12.07.2017.
84. Member Management Committee for Department of Mosques, University of the Punjab, Lahore. Vide office order No. D/497/R, dated 03.05.2017.
85. Member Purchase Committee for Department of Mosques, University of the Punjab, Lahore. Vide office order No. D/496/R, dated 03.05.2017.
86. Member of sub-committee to evaluate the cases regarding Grant of Advance/Annual Increment and Performance Based Increment/Honorarium to the Faculty Members working under Tenure Track System vide office order No. D/478/R, dated 24.04.2017.
87. Member Affiliation Committee to visit "Informatic Education Centre, PO Box-17416, Ajman, UAE" from 12.04.2017 (Wednesday) to 16.04.2017 (Sunday) for inspection and grant of extension in affiliation to teach BBA & MBA classes. Vide office order No. D/892/AF, dated 10.04.2017.
88. Convener of committee to prepare/conduct the test at par with GRE (General) & GRE (Subject) for admission in MS/M.Phil/Ph.D. or equivalent programmes of the department of Zoology. Vide office order No. D/327/Acad, dated 17.01.2017.
89. Member Executive Council ZSP, Punjab, (2017-2020). The Zoological Society of Pakistan, School of Biological Sciences, University of the Punjab, New-Campus, Lahore.
90. Member congress Executive Committee. The Zoological Society of Pakistan, School of Biological Sciences, University of the Punjab, New-Campus, Lahore.
91. Member, Board of Studies in Biological Sciences, School of Biological Sciences, University of the Punjab, Lahore, vide office order No. SBS/745/18, dated 27.11.2018.
92. Member of the Board of studies in medicine & Dentistry as constituted under the Punjab University Act, 1973. Of the Shaikh Zayed Postgraduate Medical Institute/Shaiikh Khalifa Bin Zayed Al-Nahyan Medical & Dental College, Lahore, vide office order No. D/5963/Acad, dated 17.09.2018.
93. Member, Board of Faculty of Sciences, University of Sargodha, Sargodha, vide office order No. UOS/Acad/761, dated 29.10.2018.
94. Convener, Departmental Tenure Review Committee (DTRC) of the Department of Zoology, University of the Punjab, Lahore vide office order No. D/3877/Est-I, dated 05.11.2018.
95. Member, committee regarding Seniority issue of Prof. Dr. Rizwan Akram Rana, Institute of Education & Research, University of the Punjab, Lahore, vide office order No. D/3600/Est-I, dated 05.10.2018.
96. Member, Advanced Studies & Research Board, University of the Punjab, Lahore, vide office order No. D/6404/Acad, dated 26.09.2018.
97. Member, Departmental Tenure Review Committee (DTRC) for Department of Zoology, GC University Lahore. Vide office order No. 07-03/DTRC(TTS)-18, dated 15.08.2018.
98. Member of the Standing Committee on Plagiarism, University of the Punjab, Lahore, vide office order No. 3241/Addl.R, dated 22.06.2018.
99. Member, ADHOC committee appointed by the Vice-Chancellor to discharge the function of the Board of Studies, Centre for Applied Molecular Biology, University of the Punjab, Act, 1973. Vide office order No. D/4588/Acad, dated 03.08.2018.
100. Member, Departmental Tenure Review Committee (DTRC) of the Institute of Agricultural Sciences, University of the Punjab, Lahore to evaluate/review the performance of the Faculty Members working on TTS according to the relevant statutes. Vide office order No. D/2566/Est-I, dated 19.07.2018.
101. Member of Robes/Hall & Seating arrangements/Academic Procession/Stage Management Committee for the Phase-II of 126<sup>th</sup> Convocation, University of the Punjab, Lahore, vide office order No. D/198/R, dated 12.02.2018.
102. Member, committee to give its suggestions (in the light of TTS statutes and further clarifications by HEC to resolve the promotion and other allied issues of the faculty members working under Tenure Track System at University of the Punjab, Lahore. Vide office order No. D/218/R, dated 16.02.2018.
103. Member, committee regarding grant of advance/annual increment and performance based increment/honorarium to the faculty members working under Tenure Track System, at University of the Punjab, Lahore vide office order No. D/211/R, dated 15.02.2018.

104. Member, committee for preliminary hearing of appeals in the disciplinary cases for the academic years 2018 and 2019 to consider the appeals of the appellants against the decisions of the Disciplinary Committees (Unfair Means Committees), University of the Punjab, Lahore vide office order No. D/214/R, dated 15.02.2018.
105. Member, Board of Faculty of Sciences, University of the Punjab, Lahore. Vide office order No. D/1888/Acad, dated 07.03.2018.
106. Member, Transport Committee, University of the Punjab, Lahore, vide office order No. D202/R, dated 13.02.2018.
107. Chairman, House Allotment Committee for Non-Teaching Staff of University of the Punjab, Lahore, vide office order No. D/203/R, dated 13.02.2018.
108. Chairman, Sub-Committee to evaluate the cases regarding grant of Advance/Annual Increment and Performance Based Increment/Honorarium to the Faculty members working under Tenure Track System, before placing in the Main TTS Committee, University of the Punjab, Lahore, vide office order No. D/474/R, dated 07.05.2018.
109. Member, International Society of Engineering Science and Technology, dated 28.11.2018.
110. Member, Committee for preparation of recommendations regarding appointment of foreign experts for evaluation of Ph.D. theses etc, University of the Punjab, Lahore, vide office order No. D/5795/Acad, dated 14.09.2018
111. Member, Implementation Committee for adopting preventive measures against any possible spread of Dengue Fever on both the Campuses of University of the Punjab, Lahore vide office order No. D/556/R, dated 16.07.2019.
112. Member, Adhoc Committee for the appointment of Wardens and Superintendents of the Hostels at University of the Punjab, Lahore, for the years 2019-2020 vide office order No. D/224/R, dated 04.03.2019.
113. Chairman, House Allotment Committee for Non-Teaching Staff of University of the Punjab, Lahore vide office order No. D/664/R, dated 02.09.2019.
114. Member, Management Committee for Department of Mosques, University of the Punjab, Lahore for a period of two years vide office order No. D/665/R, dated 02.09.2019.
115. Member, Board of Studies in the subject Medicine & Dentistry, University of the Punjab, Lahore vide office order No. D/5395/Acad, dated 29.07.2019.
116. Member, Board of Faculty of Life Sciences, University of the Punjab, Lahore vide office order No. D/4944/Acad, dated 24.07.2019.
117. Coordinator, BS (Hons) program, Department of Zoology, University of the Punjab, Lahore vide office order No. D/2256/Est-I, dated 17.07.2019.
118. Convener, Board of Studies in subject of Zoology, University of the Punjab, Lahore vide office order No. D/4470/Acad, dated 27.06.2019.
119. Member, Project Evaluation Committee, University of the Punjab, Lahore, vide office order No. 212/Dean.Life.Sci., dated 22.03.2019.
120. Member, HEC Needs Based Scholarship Program (2018-2019), vide office order No. 211/Dean.Life.Sci., dated 21.03.2019.
121. Member, Congress Organizing Committee, 39<sup>th</sup> Pakistan Congress of Zoology (International), Department of Zoology, Islamia College University, Peshawar.
122. Member, Organizing Committee for 15<sup>th</sup> National Honeybee Farming and Management Training Workshop (March 25-29, 2019), vide office order No. 900/Dean. Life. Sci, dated 07.03.2019.
123. Member, Departmental Tenure Review Committee (DTRC) of the Centre for Undergraduate Studies, University of the Punjab, Lahore, vide office order No. D/614/Est.I, dated 26.02.2019.
124. Member, Executive Council ZSP, Punjab, (2017-2020), The Zoological Society of Pakistan, School of Biological Sciences, University of the Punjab, Lahore.
125. Member, Congress Executive Committee, The Zoological Society of Pakistan, School of Biological Sciences, University of the Punjab, Lahore.
126. Member, Departmental Tenure Review Committee (DTRC) of Zoology Department. University of Education, Lahore, Division of Science and Technology. Vide office order No. UE/Div.S&T/2019/7678, dated 12.12.2019.
127. Convener, Registration Committee at the International Conference "Recent Innovations in Molecular Sciences" November 6-8, 2019 organized by University of the Punjab, Lahore.

128. Member, Standing Committee on Plagiarism, University of the Punjab, Lahore vide office order No. D/970/R, dated 12.12.2019.
129. Member, Board of Studies, University of Home Economics, Lahore vide office order No. REG/UHE2045, dated 30.11.2019.
130. Chairman, grant of advanced / annual increment and performance based increment/honorarium to the faculty members working under Tenure Track System, University of the Punjab, Lahore.
131. Member, Departmental Tenure Review Committee, University of Gujrat, Hafiz Hayat Campus, vide office order No. UOG/R(E-II)/105/3535, dated 30.10.2019.
132. Member, Selection Board, University of Education, College Road, Township, Lahore.
133. Member, Management committee for department of Mosques, University of the Punjab, Lahore for a period of two years vide office order No. D/662/R, dated 29.12.2020.
134. Member, Purchase Committee for the Department of Mosques, University of the Punjab for the year 2020-2021 vide office order No. D/502/R, dated 21.09.2020.
135. Deputy Chairman, Hall Council, University of the Punjab, Lahore vide office order No. /27/HC, dated 20.11.2020.
136. Member, HEC Needs Based Scholarship Program (2019-2020) and BEEF scholarship vide office order No. D/98/Dean.Life.Sc., dated 06.02.2020.
137. Member, Special Purchase Committee for Halls of University of the Punjab, Lahore for the financial year 2020-2021 vide office order No. D/418/R, dated 12.08.2020.
138. Member, Committee for preliminary hearing of appeals in the disciplinary cases for the academic year 2020 and 2021 to consider the appeals of the appellants against the decisions of the Disciplinary Committees (Unfair Means Committees), University of the Punjab, Lahore vide office order No. D/221/R, dated 11.03.2020.
139. Member, Adhoc committee for the appointment of Wardens and Superintendents of the Hostels at University of the Punjab, Lahore for the year 2020-2021 vide office order No. D/419/R, dated 12.08.2020.
140. Member, committee to determine the eligibility of the applicant for the post of Professor of Sports Sciences & Physical Education for the department of Sports Sciences & Physical Education under BS advertised with the last date 30.10.2019 vide office order No. D/281/HR, dated 20.01.2020.
141. Chairman, House Allotment Committee for Non-Teaching Staff of University of the Punjab, Lahore, vide office order No. D/011/R, dated 09.01.2021.
142. Deputy Chairman, Hall Council, University of the Punjab, Lahore vide office order No. D-437/HC, dated 29.09.2021.
143. Member, Board of Faculty of Agricultural Sciences, University of the Punjab, Lahore vide office order No. D/7806/Acad, dated 04.08.2021.
144. Member, Disciplinary Committee to settle disputes between the residents of different Boys Hostels and between residents and day scholars of Boys Hostels, University of the Punjab, Lahore vide letter No. D/328/HC, dated 30.07.2021.
145. Member, HEC Need based scholarships (2021-2021) for the students of the teaching Departments under Faculty of Life Sciences vide letter No. D/300/Dean Life Sc., dated 16.06.2021.
146. Chairman, Departmental Tenure Review Committee (DTRC) of the Institute of Zoology, University of the Punjab, Lahore vide office order No. D/548/HR, dated 25.03.2021.

**XXV. CO-CURRICULAR ACTIVITIES/NON-PROFESSIONAL INTERESTS:**

1. Participated in Mass Gymnastic Display, held at Islamabad, in October, 1976.
2. Participated in the 4th SAF Games, held at Islamabad in October, 1989.
3. Sports in charge of the Department of Zoology, University of the Punjab, Lahore, since 1995.
4. Certificate of appreciation for performing excellent duty on the occasion of University of the Punjab, 11th Convocation 2000.
5. Letter of congratulation on excellent monitoring as a member of the Punjab University Monitoring Team for B.A./B.Sc. Examination 2001.
6. Member, Executive Council of Punjab University Academic Staff Association from 1999-2002.
7. Incharge Central Research Laboratory Department of Zoology University of the Punjab, Lahore.

8. Incharge Ph.D. regular programme, up to 2008. Department of Zoology, University of the Punjab, Lahore.
9. Have been appointed several times Authorized officer for various inquiries of employees of the University of the Punjab Lahore.
10. Reading and writing Urdu literature including poetry.
11. Discussion regarding different civilizations impacts on social issues.
12. Official member of Zoo Management Committee, Government of the Punjab, Forest, Wildlife and Fisheries department vide officer order No. SOP(WL)12-9/2001-VII, dated 03.01.2017.
13. Member Curriculum Committee of School of Biological Sciences vide officer order No. SBS/267/17, dated 26.04.2017.
14. Issue Bio-ethic Report for NRPU Projects vide officer order No. D/307/ORIC, dated 28.09.2017.

**XXVI. AWARDS:**

- 1) Was awarded an incentive award on research publication in year 2006 amounting Rs. 12,500/-. The award was recommended by the Incentive Award Committee, University of the Punjab, Lahore.
- 2) Was awarded an incentive award on research publication in year 2009 amounting Rs. 40,000/- The award was recommended by the Incentive Award Committee, University of the Punjab Lahore.
- 3) Was awarded Post Doctoral Fellowship Phase II (Batch-II) by Higher Education Commission Islamabad in year 2007.
- 4) Was awarded Performance Evaluation Award for the period from 01.01.2011 to 31.12.2011 by University of the Punjab, Lahore.
- 5) Was awarded Zoologist of the year award 2012 in recognition of his outstanding contribution to zoological sciences March 2012.
- 6) Was awarded research productivity allowance for the year 2011 -2012 by Pakistan Council for Science and Technology (PCST).
- 7) Was awarded 19<sup>th</sup> position for the innovation Award in the 3<sup>rd</sup> Intention to Innovation Summit 2014 held on 19-20 March 2014 at AL-RAZZI Hall Quaid-e-Azam Campus, University of the Punjab, Lahore.
- 8) Was awarded Research Productivity Award (Category C) for the year of 2015-16 by Pakistan Council for Science and Technology (PCST) with honorarium amount Rs. 57,060.
- 9) Was awarded Best University Teacher Award for the year 2016 by Higher Education Commission.

**XXVII. INVITED LECTURES:**

1. Delivered a lecture on "Enhanced growth of rohu fed on solid state fermented feed: Effects of probiotics" at one day work shop on "Fish Nutrition" Under Development Project Fish Productivity Enhancement through Capacity Building and Human Resource Development on 15.03.2012 Held at Fisheries Research & Training Institute G.T. Road, Manawan, Lahore. Pakistan.
2. Delivered a Plenary Lecture on "Comprehensive bioprocessing of low/no cost substrates for bioenergy prospects in Pakistan" in 32<sup>nd</sup> Pakistan Congress of Zoology (International) on 6<sup>th</sup> – 8<sup>th</sup> March 2012 held at Government College University Lahore, Pakistan.
3. Delivered a Plenary Lecture on "Leading role of biologists for the development of biofuel sector in Pakistan" in the 37<sup>th</sup> Congress of Zoology (International) Organized by Government College University, Faisalabad on February 28 – March 2, 2017.
4. Delivered a lecture during technical session of 13<sup>th</sup> National Honeybee Farming and Management Training workshop at Department of Zoology, University of the Punjab, Lahore on March 13-17, 2017.

# List of publications of Prof Dr. Javed Iqbal Qazi.

Department of Zoology University of the Punjab Lahore Pakistan  
E mail: qazi.zool@pu.edu.pk

## i) Research Articles:

1. Qazi, J.I. and Mufti, S.A., 1989. Regeneration of testosterone-deprived and testosterone stimulated extensor digitorum longus muscle grafts. *Sci. Int. (Lahore)*, **1**: 370-375. **(NIF)**
2. Qazi, J.I. and Mufti, S.A., 1990. Regeneration of skeletal muscle grafts in hypoinsulinaemic rats. *Pakistan J. Zool.*, **22**: 263-270. **(IF 0.338)**
3. Qazi, J.I. and Jafri, R.H., 1996. Uptake and concentration of uranium in animals and plants from a natural radioactive terrestrial ecosystem in Pakistan. *Punjab Univ. J. Zool.*, **11**: 51-56 **(NIF)**
4. Qazi, J.I. and Mufti, S.A., 1997. Effects of androgens on nucleic acids and protein contents in regenerating extensor digitorum longus muscle following orthotopic transplantation in rats. *Punjab Univ. J. Zool.*, **12**: 115-125. **(NIF)**
5. Qazi, J.I., Sheikh, S.I., Riaz-ul-Haq and Shakoory, A.R., 1997. Cultivation of chromium-tolerant Ciliate protozoans from industrial effluents of tanneries. *Pakistan J. Zool.*, **29**: 405-409. **(IF 0.338)**
6. Haq, R.U., Qazi, J.I. and Shakoory, A.R., 1998. Growth and survival of protozoa isolated from a tannery effluent. *Folia Microbiol.*, **43**: 109-112. **(IF 0.677)**
7. Qazi, J.I. and Mufti, S.A., 1998. Regeneration of extensor digitorum longus muscle grafts in testosterone propionate supplemented rats. *Punjab Univ. J. Zool.*, **13**: 135-147. **(NIF)**
8. Qazi, J.I. and Ashraf, U., 2000. Biotechnological implication of flagellate protozoans in cleaning industrial effluents containing heavy metal Cr<sup>+6</sup>. *Punjab Univ. J. Zool.*, **15**: 123-135. **(NIF)**
9. Qureshi, A.W. and Qazi, J.I., 2000. Qualitative analysis of drinking water of Lahore for the presence of coliform bacteria. *Punjab Univ. J. Zool.*, **15**: 61-68. **(NIF)**
10. Qazi, J.I. and Batool, T., 2001. Effects of different media on isolation of amino acid(s) producing bacteria. *Punjab Univ. J. Zool.*, **16**: 81-90. **(NIF)**
11. Qazi, J.I. and Mufti, S.A., 2001. Skeletal muscle regeneration in orchidectomized and testosterone propionate replaced rats - histological and morphometric studies. *Proc. Pakistan Acad. Sci.*, **38**: 137-149. **(NIF)**
12. Qazi, J.I., Noor, S. and Raqeeb, A., 2002. Isolation and growth optima of amino acid(s) producing bacteria from animal manure, soil and water samples of Lahore area. *Pakistan J. Zool.*, **34**: 331-338. **(IF 0.338)**
13. Qazi, J.I. and Qureshi, A.W., 2002. Amino acid(s) production of locally isolated bacteria in different growth media. *Pakistan J. Zool.*, **34**: 65-71. **(IF 0.338)**
14. Qazi, J.I. and Qureshi, A.W., 2002. Indication of coliforms, and other bacteria from a popular street food "Dahi Bhalley" from different areas of Lahore. *Punjab Univ. J. Zool.*, **17**: 101-107 **(NIF)**
15. Qazi, J.I., Yasin, M. and Shahjahan, S., 2002. Atmospheric bacterial profiles and suspended particulate matter of Lahore city. *Punjab Univ. J. Zool.*, **17**: 1-13. **(NIF)**
16. Suhail, M., Qazi, J.I., Zubair, M. and Feroze, N., 2002. Histological changes in rat ovaries exposed in utero to 5 MHz ultrasound waves. *Proceeding Shaikh Zayed Post-graduate Medical Institute*. **16**: 61-70. **(NIF)**
17. Qazi, J.I. and Hadi, S., 2003 Chromium resistant alkalophilic bacteria, isolated from, stagnant tanneries' effluent. *Punjab Univ. J. Zool.* **18**: 71-79. **(NIF)**

18. Qazi, J.I. and Hasan, S., 2003. The potential use of soil bacteria for assessment of heavy metal concentration in contaminated waters. *Pakistan J. Zool.* **35**: 133-138. **(IF 0.338)**
19. Qazi, J.I. and Mufti, S.A. 2003. Influence of hyperinsulinaemia on regeneration of skeletal muscle fibres following autotransplantation. *Proc. Pakistan Acad. Sci.* **40**:41-52. **(NIF)**
20. Qazi, J.I. and Saleem, F., 2003. Effects of low voltage electrolysis and freezing on coliform content of contaminated water *J. Res. Sci.* **14**:27-33. **(NIF)**
21. Qazi, J.I. and Shazia, Y., 2003. Effects of some transition metal ions on growth of bacteria and their yield of extracellular amino acids. *Punjab Univ. J. Zool.* **18**: 81-89. **(NIF)**
22. Qazi, J.I. and Yasin, M., 2003. Effects of water and acetone extracts of atmospheric suspended particulate matter collected from Lahore on bacterial and yeast growth. *Pakistan J. Zool.*, **35**: 78-81. **(IF 0.338)**
23. Qazi, J.I. and Naz. S., 2004. Isolation, characterization and optimization of alkaliphilic keratinolytic bacteria. *Proc. Natl. Cong. Biol.*, **2**: 153-167 (GC University, Lahore). **(NIF)**
24. Qazi, J.I., Shahid, R. and Ali, S.S., 2004. Isolation and characterization of pentachlorophenol degrading bacteria. *Proc. Pakistan Cong. Zool.* **24**: 185-198. **(NIF)**
25. Qazi, J.I., Shahjahan, S. and Baig, S., 2004. Pollution source assessment of river water. *Punjab Uni. J. Zool.*, **19**: 89-95. **(NIF)**
26. Andleeb, S. and Qazi, J.I., 2005. Potential of a pigment producing malathion responsive bacterium for environmental assessment of the insecticide in environmental samples. *Punjab Univ. J. Zool.*, **20**(1): 103-112. **(NIF)**
27. Bano, A.S., Qazi, J.I. Butt, M.A. and Khan, I.H. 2005. Isolation of metal corroding actinomycetes and other bacteria from soil sampled from a vicinity of microbiologically influenced corroded gas pipeline. *J. Pakistan Inst. Chem. Engineers.* **33**: 69-77. **(NIF)**
28. Qazi, J.I., Amin, S. and Chaudhary N., 2005. Cellulolytic, endospore former and coliform bacterial profiles in the bottom of Lahore canal at different locations in the city. *Punjab Univ. J. Zool.*, **22**(2): 203-210. **(NIF)**
29. Qazi, J.I., Ilyas, N. and Mufti, S.A., 2005. Effects of diabetes and hyperinsulinaemia on number of regenerated muscle fibers and their glycogen content in extensor digitorum longus muscle transplants. *Punjab Univ. J. Zool.*, **22**(2): 143-154. **(NIF)**
30. Qazi, J.I. and Munir, Z.M., 2005. Provision of nutrients enhances Cr<sup>+6</sup> reduction potential of microbial community indigenous to tannery's effluents. *Punjab Uni. J. Zool.*, **20**(1): 113-128 **(NIF)**
31. Qazi, J.I. and Riaz .S. 2005. Differential response of early and late phases of skeletal muscle regeneration to exogenous supply of testosterone and insulin. *Proc. Pakistan Acad. Sci.* **42**: 69-76. **(NIF)**
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## ii) BOOKS

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### iii) TRANSLATIONS OF BOOKS

Have translated the following books from English to Urdu:

1. "Daikhna Kia Hay" (What is seeing), printed and published by Ferozesons (Pvt.) Ltd., Lahore in 1993 (pages 24).
2. "Soonghana aur Chakhna Kia Hay" (smell and taste), printed and published by Ferozesons (Pvt.) Ltd., Lahore, in 1998 (pages 24).
3. "Dimagh aur Isabi Nizam" (Brain and nervous system), printed and published by Nuqoosh, Urdu Bazar, Lahore, in 2000 (pages 48).

### iv) ESSAYS FOR PUBLIC SCIENCE EDUCATION

This effort is in Urdu, language for public awareness. Following articles have been published.

1. "Sciency Uloom, Qaumi Zuban oar *Urdu Science Magazine*" (Scientific knowledge, national language and Urdu science magazine) *Urdu Science Magazine*, April to June, 2002, pp.56-60.
2. "Mahole main tabkari ki Khafif miqdar kay Khatrat" (Dangers of low-dose radioactive rays in the environment) *Urdu Science Magazine*, April to June, 2003, pp. 30-35.
3. Cloning ki taknik, is kay istamalat ore akhlaki pahloo (Technique of cloning, its uses and moral facets). *Al Hikmat* **22**: 19-32.
4. Maholiati Aaloodgi aor Mulki Taraqi (Environmental Pollution and Country's Progress) *Urdu Science Magazine*, July-September 2010. pp. 18-21.

**XXIX. RESEARCH WORK DEMONSTRATED/PRESENTED/PUBLISHED IN ABSTRACT FORM/ PARTICIPATED IN PROCEEDINGS OF NATIONAL/INTERNATIONAL CONFERENCES:**

1. Jafri R.H. and Qazi, J.I., 1985. Studies on the uptake of Uranium in biological organisms of a natural radioactive terrestrial ecosystem in Pakistan. 6th Pakistan Cong. Zool., Held at University of the Punjab Lahore (December 22-24). Abstract, pp. 132-133.
2. Acted as secretary Section of Biology: Botany: Zoology: Entomology and Cytogenetics, All Pakistan Science Conference 1996.
3. Mufti, S.A. and Qazi, J.I., 1987. Effects of Orchiectomy on the regeneration of EDL muscle grafts in rats. 100th Annual Meeting of American Association of Anatomists. Held at George Washington University school of Medicine, Washington, D.C (May, 10-14). Abstract, *Anat. Record.*, **95A**:
4. Qazi, J.I. and Mufti S.A., 1988. Skeletal muscle regeneration in rats following experimentally induced hypothyroidism. 8th Pakistan Cong. Zool., Held at University of Peshawar, Peshawar (April 10-11). Abstract, pp.70.
5. Qazi J. I. and Mufti, S. A. 1988. Effects of testosterone administration on skeletal muscle grafts. 8th Pakistan Cong. Zool., Held at University of Peshawar, Peshawar (April 10-11). Abstract, pp. 71.
6. Qazi J. I. and Mufti, S. A. 1989. Regeneration in the extensor digitorum longus muscle autotransplants in hyperthyroid rats. 9th Pakistan Cong. Zool., Held at National Agricultural Research Council, Islamabad (May 21-22). Abstract, pp. 45.
7. Qazi J. I. and Mufti, S. A. 1989. Skeletal muscle regeneration insulinaemic rats. 9th Pakistan Cong. Zool., Held at National Agricultural Research Council, Islamabad (May 21-22). Abstract, pp. 45-46.
8. Qazi J. I. and Mufti, S. A. 1989. Effect of Alloxan treatment on mammalian skeletal muscle regeneration. 9th Pakistan Cong. Zool., Held at National Agricultural Research Council, Islamabad (May 21-22). Abstract, pp. 46.
9. Qazi J. I. and Mufti, S. A., 1991. Regeneration of mammalian skeletal muscle grafts following administration of tri-iodothyronine hormone. 11th Pakistan Cong. Zool., Held at Khanuspur (Muree Hills) (May 25-26) Abstract, pp. 35.
10. Qazi J. I. and Mufti, S. A., 1995. Skeletal muscle regeneration following grafting in diabetic rats. 15th Pakistan Cong. Zool., Held at National Agricultural Research council, Islamabad (April 15-17). Abstract, pp. 20.

11. Qazi, J. I., Shazia, S. I. and Shakoori, A.R., 1996. Cultivation of Chromium tolerant ciliate protozoa in the industrial effluents of tanneries of Kasur area. 16th Pakistan Cong. Zool., Held at Quaid-I-Azam University Islamabad (April 13-15). Abstract, pp. 38-39.
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13. Qazi, J.I., Ashraf, U. and Shakoori, A.R., 1998. Biotechnological implication of protozoa in cleaning industrial effluents containing heavy metals. 18th Pakistan Cong. Zool., Held at University of the Punjab Lahore (April 20-22). Abstract, pp. 36.
14. Qazi, J.I., Raqeeb, A. and Shakoori, A.R., 1998. Characterization and growth optima of some amino acid(s) producing bacteria. 18th Pakistan Cong. Zool., Held at University of the Punjab Lahore (April 20-22) Poster session was adjudged as FIRST in order of merit. Abstract, pp. 127.
15. Qazi, J.I., Mariam, Z. and Shakoori, A.R., 1999. Growth of microorganisms indigenous of tanneries effluent in the presence of molasses, peptone and varying concentrations of Cr<sup>+6</sup>. 19th Pakistan Cong. Zool., Held at National Agricultural research center, Islamabad (April 19-21) Abstract, pp. 210.
16. Qazi, J.I., Qureshi, A.W. and Shakoori, A.R., 1999. Effects of media composition on bacterial conversion of glucose and inorganic nitrogen into extracellular amino acid(s). 19th Pakistan Cong. Zool., Held at National Agricultural research center, Islamabad (April 19-21) Abstract, pp. 211.
17. Qazi, J.I. and Anwar, S., 2003. Hydrolysis of feather keratin by Alkalitolerant Bacteria 23<sup>rd</sup> Pakistan congress of Zoology (International) Held at the University of Arid Agriculture, Rawalpindi, Pakistan (March 3-5) Abstract, pp.10.
18. Qazi, J.I., and Shahid, R., 2004. Isolation and characterization of pentachlorophenol degrading bacteria. 24<sup>th</sup> Pakistan congress of Zoology (International). Held at the Allama Iqbal open University, Islamabad, Pakistan (March 30 – April, 1) Abstract, pp.22. .
19. Qazi, J.I. and Shagufta, N., 2004. Isolation, characterization and optimization of alkaliphilic keratinolytic bacteria. 2<sup>nd</sup> National Conference of Biology. Held at Biology Block, Government College University, Lahore, Pakistan, (April 22-24, 2004). Abstract, pp. .
20. Qazi, J.I. and Shaheen, S., 2005. Isolation and characterization of pathogenic bacteria of fish. 3<sup>rd</sup> symposium of Fisheries “Conservation of Mahseer”, held at Department of Zoology, Govt. College University, Lahore. (25<sup>th</sup> – 26<sup>th</sup> April 2005) Abstract, pp.49.
21. Saeed, A.A. and Qazi, J.I., 2005. Ethanol production by U.V. irradiated *Bacillus coagulans* – Ah As- 8 and *B. coagulans*-AhAS-30 bacterial and *Saccharomyces cerevisiae* – Ah AS – Y3 yeast strains. 18<sup>th</sup> Federation of Asian and Oceanian Biochemists and Molecular Biologists Symposium (Genomics and proteomics in health and agriculture) held at Lahore, Pakistan (20-23<sup>rd</sup> November 2005) Program & Abstracts, pp., 211.
22. Faiz, M.M., Qazi, J.I., Qureshi, A.A. and Asghar, S., 2005. An analysis of prognostic factors and the five year survival rate in childhood acute lymphoblastic leukaemia. Proffered papers paediatric oncology poster: Paediatric oncology. European Journal of Cancer Supplements, **3**: p. 357, ECCO13-The European cancer Conference, Paris France. Mon. 30<sup>th</sup> October-3<sup>rd</sup> November 2005.

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24. Iftikhar, T., Bashir, T., Qazi, J.I. and Faiz, M., 2006. Bacterial monitoring of donors blood and its components collected at INMOL Blood Bank. 26<sup>th</sup> Pakistan Congress of Zoology (International) held at University of the Punjab, Lahore, Pakistan. (April 4-6, 2006). Abstract, pp. 8.
25. Saeed, A.A. and Qazi, J.I., 2006. Isolation and identification of ethanologenic thermophilic yeast. 26<sup>th</sup> Pakistan Congress of Zoology (International) held at University of the Punjab, Lahore, Pakistan. (April 4-6, 2006). Abstract, pp. 8.
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27. Qazi, J.I. and Abbasi, M., 2006. Effect of urbanization on Lahore canal water pollution. 26<sup>th</sup> Pakistan Congress of Zoology (International) held at University of the Punjab, Lahore, Pakistan. (April 4-6, 2006). Abstract, pp. 114.
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33. Qazi, J.I. and Nazar, S., 2006. Microbial saccharification and ethanol fermentation of potato starch. 26<sup>th</sup> Pakistan Congress of Zoology (International) held at University of the Punjab, Lahore, Pakistan. (April 4-6, 2006). Abstract, pp. 133 (Poster session)
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35. Bano, A.S. and Qazi, J.I., 2007. Isolation and characterization of mild steel corroding bacteria form corrosion influenced soil samples. 27<sup>th</sup> Pakistan Congress of Zoology, held at B.Z. University Multan, Pakistan (February 27 to March 1, 2007). Abstract pp. 19.

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39. Chaudhary, N. and Qazi, J.I., 2007. Producing ethanol from cellulosic material – an economic strategy. 27<sup>th</sup> Pakistan Congress of Zoology, held at B.Z. University Multan, Pakistan (February 27 to March 1, 2007). Abstract pp. 158. (Poster session was adjudged as FIRST in order of merit).
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42. Andleeb, S. and Qazi, J.I., 2007. Isolation of malathion detoxifying Strains of *Pseudomonas aeruginosa* from an insecticide impregnated soil habitat. National Research conference; Pakistan Academy of Sciences, Holding in Lahore, 29, 30<sup>th</sup> June, 2007. Abstract pp. 5-6.
43. Mumtaz, S. and Qazi, J.I., 2008. Effect of solid state fermentation employing yeasts on some nutritional parameters of fish feed. 28<sup>th</sup> Pakistan Congress of Zoology, Govt. College Faisalabad, March (18-20, 2008). Abstract pp. 06.
44. Jabeen F. and Qazi, J.I., 2008. Potential of bacterial cellulases, lipases and proteases for formulating biodetergents. 28<sup>th</sup> Pakistan Congress of Zoology, Govt. College Faisalabad, March (18-20, 2008). Abstract pp. 09.
45. Chaudhary, N. and Qazi, J.I., 2008. Ethanologenic potential of the bacterium *bacillus cereus* NB-19 in media comprising of sugar mill and dairy industrial wastes. 28<sup>th</sup> Pakistan Congress of Zoology, Govt. College Faisalabad, March (18-20, 2008). Abstract pp. 10.
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47. Chaudhary, A., 2008. Effect of a pro biotic *Pseudomonas pseudoalcaligenes* fermented fish feed on body composition of *Labeo rohita* fingerlings. 28<sup>th</sup> Pakistan Congress of Zoology, Govt. College Faisalabad, March (18-20, 2008). Abstract pp. 39.
48. Chaudhary, A., 2008. The probiotic potential of two *Pseudomonas* against *Vibrio anguillarum* and *Pseudomonas fluorescens* in *Labeo rohita* fingerlings. 28<sup>th</sup> Pakistan Congress of Zoology, Govt. College Faisalabad, March (18-20, 2008). Abstract pp. 39.

49. Andleeb, S., Qazi, J.I. and Latif, H., 2008. Bacterial detoxification of an organophosphate insecticide. International Research Conference, Higher Education Commission, Pakistan Academy of Science. Holiday Inn, October (27<sup>th</sup>-28<sup>th</sup>). Abstract pp.11.
50. Abbasi, M. H. and Qazi, J.I., 2009. Isolation and characterization of some coal desulfurizing bacteria. 29<sup>th</sup> Pakistan Congress of Zoology, University of Sindh, Jamshoro, February (24<sup>th</sup>-26<sup>th</sup>). Abstract pp. 28-29.
51. Aslam, S., Qazi, J.I., 2009. Isolation and characterization of acidophilic lactic acid bacteria showing antibiosis against harmful bacteria. 29<sup>th</sup> Pakistan Congress of Zoology, University of Sindh, Jamshoro, February (24<sup>th</sup>-26<sup>th</sup>). Abstract pp.19.
52. Jabeen, F. and Qazi, J.I., 2009. Biostoning potential of bacterial cellulases at elevated temperatures. 29<sup>th</sup> Pakistan Congress of Zoology, University of Sindh, Jamshoro, February (24<sup>th</sup>-26<sup>th</sup>). Abstract pp.42.
53. Qurat-UI-Ain, Ali, H. and Qazi, J.I., 2009. Isolation of naphthalene degrading bacteria from refinery oil influenced mud. 29<sup>th</sup> Pakistan Congress of Zoology, University of Sindh, Jamshoro, February (24<sup>th</sup>-26<sup>th</sup>). Abstract pp.43.
54. Bano, A.S. and Qazi, J.I., 2009. Antagonistic effect of bacterial cell free cultural fluids on microbiologically influenced corrosion of mild steel. 29<sup>th</sup> Pakistan Congress of Zoology, University of Sindh, Jamshoro, February (24<sup>th</sup>-26<sup>th</sup>). Abstract pp.44.
55. Bano, A.S. and Qazi, J.I., 2009. Biocorrosion of soil buried mild steel coupons and its biological control. 29<sup>th</sup> Pakistan Congress of Zoology, University of Sindh, Jamshoro, February (24<sup>th</sup>-26<sup>th</sup>). Abstract pp.45.
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57. Bano, A.S. and Qazi, J.I. 2009. Corrosion and its control of soil buried mild steel coupons by *Paenibacillus dendritiformis* and its antagonist bacterium. International Conference on Frontiers in Molecular Life Science. (16<sup>th</sup> – 18<sup>th</sup> September)
58. Bano, A.S. and Qazi, J.I., 2010. Influence of Bacillus-SNB-4 and Bacillus thuringiensis sn-8 (Antagonist) on mild steel corrosion following two years soil buried conditions. 30<sup>th</sup> Pakistan Congress of Zoology, University of Agriculture, Faisalabad, March (2<sup>nd</sup>- 4<sup>th</sup>). Abstract pp. 60.
59. Mirza, S.S. and Qazi, J.I., 2010. Isolation of H<sub>2</sub> producing purple non-sulfur bacteria from various water samples. 30<sup>th</sup> Pakistan Congress of Zoology, University of Agriculture, Faisalabad, March (2<sup>nd</sup>- 4<sup>th</sup>) Abstract pp. 60.
60. Jabeen, F. and Qazi, J.I., 2010. Potential of alkaliphilic protease producing bacterium for formulating biodetergent. 30<sup>th</sup> Pakistan Congress of Zoology, University of Agriculture, Faisalabad, March (2<sup>nd</sup>- 4<sup>th</sup>) Abstract pp. 61.
61. Rukh, L. and Qazi, J.I., 2010. Heavy metals and antibiotic resistant coliform bacterial contamination in fruit chat samples from Lahore. 30<sup>th</sup> Pakistan Congress of Zoology, University of Agriculture, Faisalabad, March (2<sup>nd</sup>- 4<sup>th</sup>) Abstract pp. 215. (Poster session was adjudged as FIRST in order of merit).



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63. Shakir, H.A. and Qazi, J.I., 2011. Urban pollutants load affects growth factor of rohu in river Ravi negatively. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 26.
64. Shakir, H.A. and Qazi, J.I., 2011. Biochemical parameters of *Labeo rohita* sampled from up and down stream localities of the river Ravi. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 26.
65. Shakir, H.A. and Qazi, J.I., 2011. Heavy metal resistant bacteria from gut contents of thaila from up and down stream localities of river Ravi. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 27
66. Shakir, H.A. and Qazi, J.I., 2011. Isolation of heavy metal resistant bacteria form gut contents of rohu collected form up and down stream localities of river Ravi. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 28.
67. Shakir, H.A. and Qazi, J.I., 2011. River urban pollutants enhanced carbohydrate and nucleic acid while decreased protein and lipid contents of the *Cirrhina mrigala* sampled form up and down stream localities of river Ravi. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 28.
68. Shakir, H.A. and Qazi, J.I., 2011. Muscle biochemical parameters of *Catla catla* sampled from up and down stream localities of river Ravi. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 29.
69. Shakir, H.A. and Qazi, J.I., 2011. Chromium, lead, mercury and copper resistant bacteria from gut contents of mori from up and down stream localities of river Ravi. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 208.
70. Shakir, H.A. and Qazi, J.I., 2011. Growth factor of the riverine fish, mori following exposure to urban pollutants. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 208.
71. Shakir, H.A. and Qazi, J.I., 2011. Effects of urban pollutants on growth of *Catla catla* in the river Ravi. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 209.
72. Siddiqui, S., Shakir, H.A. and Qazi, J.I., 2011. Intestinal derangements of *Labeo rohita* sampled from the downstream location, head bolloki, river Ravi. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 201.
73. Aslam, S. and Qazi, J.I., 2011. Chromium resistant sulfur oxidizing bacteria from a soil exposed chronically to the tanneries effluents. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 23.
74. Aslam, S. and Qazi, J.I., 2011. Chromium resistant phosphorus accumulating bacteria isolated from soiled sample from a suburban locality of city Kasur. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 24.

75. Aslam, S. and Qazi, J.I., 2011. Bioremediation removal of nitrogen content form waste waters contaminated with heavy metal. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 24.
76. Aslam, S. and Qazi, J.I., 2011. Isolation and characterization of nitrogen fixing bacteria from tanneries effluents' influenced soils. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 25.
77. Aslam, S. and Qazi, J.I., 2011. Isolation and characterization of cellulolytic bacteria from tanneries effluents' influenced soils. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 25.
78. Hussain, A., Bano, A.S. and Qazi, J.I., 2011. Corrosion of mild steel stimulating long term soil buried field condition differing in nutritional and biotic components. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 18.
79. Qazi, J.I., Shahab, D. and Bano, A.S. 2011. Stability of biocorrosion protecting exoproducts of *bacillus thurangensis*-SN8. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 230.
80. Mumtaz, T., Bano, A.S. and Qazi, J.I., 2011. Fate of three years soil buried mild steel exposed to corrosion causing *Paenibacillus dendritiformis* MB-14 and its antagonist *Bacillus subtilis* MB-6. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 231.
81. Jabeen, F. and Qazi, J.I., 2011. Isolation and characterization of chitin form edible blue crab *Callinectes sapidus* and its comparison with the purified carbohydrate. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 18.
82. Tufail, F., Jabeen, F. and Qazi, J.I., 2011. Designing low cost media for the cultivation of antimycotic chitinolytic bacteria of *bacillus* spp. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 51.
83. Jabeen, F. and Qazi, J.I., 2011. Potential of chitinolytic bacteria for environmentally compatible termite control. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 230.
84. Nasreen, Z. and Qazi, J.I., 2011. Inoculum development for escalating composting process of house hold waste. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 51.
85. Nasreen, Z. and Qazi, J.I., 2011. Laboratory scale composting of vegetable and fruit waste under controlled condition. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 43.
86. Qazi, J.I., Shahzad, S., and Mufti, S.A., 2011. Effect of insulin administration on recruitment of myoblast and diameter of regenerated muscle fibre in freely grafted extensor digitorum longus muscle in rats. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 50.
87. Manzoor, A., Baig, S., Haq, I. and Qazi, J.I., 2011. Uropathogenic controlling efficacy of *lactobacillus* strains isolated form rotten fruits and vegetable. 31st Pakistan congress of Zoology

- (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 39.
88. Qazi, J.I., Khaleel, H. and Mufti, S.A., 2011. Percentage of area owned by regenerated muscle fibres within cross section in a better estimate of structural recovery of muscle transplants. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 40.
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  90. Qazi, J.I. and Naeem, N., 2011. Antimicrobial effects of some herbal extracts on skin and urogenital opportunistic pathogens. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 42.
  91. Rukh, L. and Qazi, J.I., 2011. Isolation of oleaginous yeasts and their cultivation in agro industrial waste. 31st Pakistan congress of Zoology (International) University of Azad Jammu and Kashmir, Muzaffarabad. (April 19<sup>th</sup> – 21<sup>st</sup>) Abstract pp 43.
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117. Shakir, H.A., Chaudhry, S. and Qazi, J.I. 2012. Seasonal variations in proximate and fatty acids' composition of muscles of *cirrhinus mrigala*, *labeo rohita* and *Catla catla* from river Ravi, Pakistan. 32nd Pakistan congress of Zoology (International) GC University, Lahore. (March 6<sup>th</sup> – 8<sup>th</sup>) Abstract pp 76.
118. Shakir, H.A. and Qazi, J.I. 2012. Hepatic metal accumulation in *Catla catla* from anthropogenically affected segment of the in river Ravi, Pakistan. 32nd Pakistan congress of Zoology (International) GC University, Lahore. (March 6<sup>th</sup> – 8<sup>th</sup>) Abstract pp 76.
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120. Aslam, S. and Qazi, J.I. 2012. Molecular characterization of diverse physiological bacterial groups for chromate reductase genes. 32nd Pakistan congress of Zoology (International) GC University, Lahore. (March 6<sup>th</sup> – 8<sup>th</sup>) Abstract pp 77.
121. Shakir, H.A. and Qazi, J.I. 2012. Insults of urban pollutants to river Ravi affect growth of three inhabitant fish species adversely. 32nd Pakistan congress of Zoology (International) GC University, Lahore. (March 6<sup>th</sup> – 8<sup>th</sup>) Abstract pp 286.
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123. Shakir, H.A. and Qazi, J.I. 2012. Metals' profile of river Ravi water receiving the Lahore origin effluents. 32nd Pakistan congress of Zoology (International) GC University, Lahore. (March 6<sup>th</sup> – 8<sup>th</sup>) Abstract pp 287.
124. Shakir, H.A. and Qazi, J.I. 2012. Metals contents of Lahore origin effluents influenced sediment of river Ravi. 32nd Pakistan congress of Zoology (International) GC University, Lahore. (March 6<sup>th</sup> – 8<sup>th</sup>) Abstract pp 76.
125. Participated by presenting poster on "Altered physico-chemical parameters of river Ravi, segment subjected to urban pollutants" in 32<sup>nd</sup> Pakistan congress of Zoology (International) GC University, Lahore. (March 6<sup>th</sup> – 8<sup>th</sup>) Poster-18 pp 330.
126. Participated by presenting poster on "Urban pollutants affect negatively the fatty acid profiles of rohu from river Ravi" in 32<sup>nd</sup> Pakistan congress of Zoology (International) GC University, Lahore. (March 6<sup>th</sup> – 8<sup>th</sup>) Poster-20 pp 331.
127. Participated by presenting poster on "Photofermentative hydrogen production from starch manufacturing wastes" in 32<sup>nd</sup> Pakistan congress of Zoology (International) GC University, Lahore. (March 6<sup>th</sup> – 8<sup>th</sup>) Poster-23 pp 333.
128. Qazi, J.I., Maqsood, S. and Mirza, S.S. 2013. Single cell protein of purple non sulfur bacteria (PNSB) from fruit wastes. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup>) Abstract pp 28.
129. Aslam, S. and Qazi, J.I. 2013. Indole acetic acid production by chromium reducing *Paenibacillus barcinonensis*. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup>) Abstract pp 28-29.
130. Awan, K. and Qazi, J.I. 2013. Isolation of thermophilic-amylase producing bacteria from hot water habitat in the vicinity of an oil well. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup>) Abstract pp 29.
131. Siddiqui, S., Qazi, J.I. and Shakir, H.A. 2013. Economic cultivation of *Saccharomyces cerevisiae* and potential of fruit wastes for generation of single cell protein. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup>) Abstract pp 29.
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133. Jabeen, F. and Qazi, J.I. 2013. Chitinase gene from an isolate of *Stenotrophomonas maltophilia* and its involvement in biological control of termites. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup>) Abstract pp 33.
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135. Aslam, S. and Qazi, J.I. 2013. Cultivation of *Triticum aestivum* in cellulolytic and nitrogen fixing bacterial co-cultured bioremediated chromium contaminated soil. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup>) Abstract pp 34.

136. Batool, N., Shakir, H.A. and Qazi, J.I. 2013. Cultivation of different heavy metals resistant *Bacillus* species on fruit peels. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup> ) Abstract pp 90.
137. Hussain, A., Ali, K., Shakir, H.A., Qazi, J.I. and Ali, S. 2013. Prevalence of *Escherichia coli* in milk and different milk products sold under market conditions at Lahore, Pakistan. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup> ) Abstract pp 93.
138. Hussain, A., Qazi, J.I., Ali, S. and Shakir, H.A. 2013. Occupational exposure to metallic dust and its impact on the hemogram and serum biochemistry of workers of cutlery industries in Wazirabad, Pakistan. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup> ) Abstract pp 138.
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140. Hussain, A., Qazi, J.I., Ali, S. and Shakir H.A. 2013. Occupational exposure to metallic dust among workers of cutlery industries in Wazirabad, Pakistan: A preliminary survey. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup> ) Abstract pp 140.
141. Shakir, H.A., Qazi, J.I., Hussain, A. and Aslam, S. 2013. Hepatic responses of three carp fish species against metals' pollution in river Ravi, Pakistan. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup> ) Abstract pp 142.
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143. Shakir, H.A., Qazi, J.I. and Hussain, A. 2013. Condition factor of three carp species cultivated under same conditions. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup> ) Abstract pp 285.
144. Ali, S., Hussain, A., Qazi, J.I and Shakir, H.A. 2013. Ichthyofaunal survey of the river Ravi stretch flowing along the Jhok reserve forest, Pakistan. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup> ) Abstract pp 286.
145. Siddiqui, S., Qazi, J.I. and Shakir, H.A. 2013. Economic cultivation of *Saccharomyces cerevisiae* and potential of fruit wastes for generation of single cell protein. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup> ) Abstract pp 29.
146. Rasool, F., Rafique, A., Chaudhry A. and Qazi, J.I. 2014. Influence of probiotics on survival and body composition of *Labeo rohita* fingerlings, challenged to *Pseudomonas fluorescens*. 34<sup>th</sup> Pakistan congress of Zoology (International). Bahauddin Zakariya University, Multan. (February 25<sup>th</sup>- 27<sup>th</sup>). Abstract pp 55.
147. Hussain, A. and Qazi, J.I. 2014. Assessment of metal' induced functional stress in sulphate-reducing thermophiles. 34<sup>th</sup> Pakistan congress of Zoology (International). Bahauddin Zakariya University, Multan. (February 25<sup>th</sup>- 27<sup>th</sup>). Abstract pp 60.
148. Qazi, J.I. and Ashiq, A. 2014. Isolation and low-cost cultivation of xanthan gum yielding bacteria from different soils. 34<sup>th</sup> Pakistan congress of Zoology (International). Bahauddin Zakariya University, Multan. (February 25<sup>th</sup>- 27<sup>th</sup>). Abstract pp 62.
149. Mehmood, R., Shakir, H.A. and Qazi, J.I. 2014. Optimization of cellulolytic potential of bacteria isolated from fish gut. 34<sup>th</sup> Pakistan congress of Zoology (International). Bahauddin Zakariya University, Multan. (February 25<sup>th</sup>- 27<sup>th</sup>). Abstract pp 63.

150. Batool, N., Shakir, H.A. and Qazi, J.I. 2014. Evaluation of heavy metals' bioremediation potential of bacterial species isolated from riverine fish gut. 34<sup>th</sup> Pakistan congress of Zoology (International). Bahauddin Zakariya University, Multan. (February 25<sup>th</sup>- 27<sup>th</sup>). Abstract pp 66.
151. Chaudhry, A., Qazi, J.I. and Pervaiz, H. Effect of *Sphingomonas* sp. on survival and biochemical constituents of *labeo rohita* fingerlings to *V. anguillarum*. 34<sup>th</sup> Pakistan Congress of Zoology, Bahauddin Zakariya University, Multan. February 25-27, 2014.

**Poster Presentation:**

152. Aslam, S., Ontiveros-Valencia, A., Qazi, J.I., Ziv-El, M., Krajmalnik-Brown, R. and Rittmann, B. 2013. Simultaneous removal of selenate and chromate under denitrifying conditions in H<sub>2</sub>-based MBfR". 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup>) Poster – 4, pp 413.
153. Shakir, H.A., Qazi, J.I. and Hussain, A. 2013. Biochemical profile of *Cirrhinus mrigala* from downstream locations of river Ravi: effect of municipal and industrial discharges. 33<sup>rd</sup> Pakistan congress of Zoology (International) Pakistan Museum of Natural History, Islamabad, PMAS ARID Agriculture University, Rawalpindi. (April 2<sup>nd</sup> – 4<sup>th</sup>) Poster – 7, pp 415.
154. Presented a Poster entitled "Biological control potential of thermophilic and chitinolytic *Anoxybacillus rupiensis* isolated from a hot spring" on 24.04.2013 in International Conference on "Biotechnology: Prospects & Challenges in Agriculture, Industry, Health and Environment" from April 22-26, 2013, NIBGE, Faisalabad, Pakistan.
155. Presented a paper entitled "Selective industrial localization for economizing bioremediation process" on 24.04.2013 in International Conference on "Biotechnology: Prospects & Challenges in Agriculture, Industry, Health and Environment" from April 22-26, 2013, NIBGE, Faisalabad, Pakistan.
156. Deeba, F. and Qazi, J.I., 2014. Isolation of acetone yielding bacteria and their cultivation employing low-cost substrates. 34<sup>th</sup> Pakistan Congress of Zoology, Bahauddin Zakariya University, Multan. February 25-27, 2014.
157. Amin, N., Qazi, J.I. and Shakeel, S. 2014. A review of food and feeding habits for fresh water fishes from Pakistan. 34<sup>th</sup> Pakistan congress of Zoology (International). Bahauddin Zakariya University, Multan. (February 25<sup>th</sup>- 27<sup>th</sup>). Poster 03. pp 280.
158. Deeba, F. and Qazi, J.I. 2014. Isolation of acetone yielding bacteria and their cultivation employing low cost substrates. 34<sup>th</sup> Pakistan congress of Zoology (International). Bahauddin Zakariya University, Multan. (February 25<sup>th</sup>- 27<sup>th</sup>). Poster 10. pp 284.
159. Ilyas, S. and Qazi, J.I. 2014. Isolation of acid tolerant lab antagonistic to coliform and *Staphylococcus aureus*. 34<sup>th</sup> Pakistan congress of Zoology (International). Bahauddin Zakariya University, Multan. (February 25<sup>th</sup>- 27<sup>th</sup>). Poster 11. pp 284.
160. Farah Deeba and Javed Iqbal Qazi, "Isolation of Acetone Yielding Bacteria and their Cultivation in Low-cost substrates". The poster and the practical demonstration of the activity was awarded shield prize for 6<sup>th</sup> position in the 3<sup>rd</sup> invention to innovation summit 2014 held at Quaid-e-Azam Campus, Punjab University Lahore, on 19-20 March.
161. Sumaira Aslam and Javed Iqbal Qazi, "Simultaneous Reduction of Selenate and Chromate under Denitrifying Condition in H<sub>2</sub>-Based memberane Biofilm Reactor". The poster was awarded shield prize for 11<sup>th</sup> position in the 3<sup>rd</sup> invention to innovation summit 2014 held at Quaid-e-Azam Campus, Punjab University Lahore, on 19-20 March.
162. Zaman Gul and Javed Iqbal Qazi, "Cultivation of nitrogen fixing and plant growth promoting bacteria in agroindustrial waste for biofertilizer production". For practical demonstration of the activity shield prize was awarded for 18<sup>th</sup> position in the 3<sup>rd</sup> invention to innovation summit 2014 held at Quaid-e-Azam Campus, Punjab University Lahore, on 19-20 March.
163. Deeba, F., Shakir, H.A., Irfan, M. and Qazi, J.I. 2018. "Chemical and UV mutagenesis for enhanced productions of chitinase from *Bacillus subtilis*" during the 38<sup>th</sup> Pakistan Congress of Zoology (International), held at University of the Punjab, Lahore on February 27 – March 1, 2018.