

Dr. Farhana Bibi

D/O: Maqbool-ur-Rehman

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Google scholar: https://scholar.google.com/citations?hl=en&view_op=list_works&gmla=AJsN-F5zwqRianXAN7n8pIKh0shILxiTlOo78ipakPILmC3fSfyK6QevpOXiX7UI7oC_S4Wc3XcrooprcrMZH3btuW7zEE7S1g&user=qbDts5oAAAAJ

ACADEMIC QUALIFICATION:

- **PhD**, College of Environmental Science and Engineering, Ocean University of China, PR China, 2012.

Ph. D research topic: “Potential of immobilized microbial consortium in petroleum polluted soil rhizodegradation”.

Area of specialization: Environmental Microbiology, Bioremediation

- **MS**, Department of Environmental Sciences, COMSATS Abbottabad, Pakistan, 2008.

MS research topic: “Physicochemical and microbiological water quality analysis of Salhad stream, South Abbottabad, North Pakistan”.

Area of specialization: Environmental microbiology, water quality monitoring

- **MSc**, Department of Microbiology, University of Karachi, Sindh Pakistan, 2002.
- **BSc**, Microbiology, Biochemistry & Chemistry, DJ Sindh Govt. Science College, 1999.

AWARDS AND HONORS

- Selected for Long term (3 months) CAS-TWAS, CEWE 2018 Water & Sanitation Program, Beijing China, award covers roundtrip airfare, accommodation, 3 cities visits, industrial trips and research activities in advance research labs of CAS.
- NRPU research grant 2016 winner awarded by governor KP, Pakistan.
- Research Productivity Award for 2011 by COMSATS University, Abbottabad

- PhD scholarship by China Scholarship Council
- MS Full-scholarship by COMSATS University, Abbottabad.
- Travel Grant for Ph. D study from China by HEC
- Certificate of appreciation KU-HU Lab
- Certificate of appreciation by Saudi Red Crescent
- Letter of appreciation Workshop on Genetic Engineering Techniques at Hazara University

PROFESSIONAL SKILLS

- Able to perform different microbiological experiment independently including microbial community analysis through Next Generation DNA Sequencing. Can handle and analyze Amplicon sequencing data through Galaxy Pipeline workstation.
- Expert in Microscopy, including Scanning Electron Microscopy and Epifluorescent Microscopy. Expertise in functional profiling of microbes using BIOLOG Eco plates, ELISA Test, PCR-DGGE analysis etc.
- Expertise in the field of water quality analysis, water treatment system, sand filtration, activated C filter, wetland treatment system and solid waste management.
- Expertise in the field of wastewater treatment through upflow microbial fuel cell and upflow anaerobic sludge blanket reactor.
- Able to operate ICP-OES, GC-MS, Atomic Absorption and UV-spectrophotometer analysis.
- Able to handle scientific data and can perform ANOVA, Multivariant statistical modeling and various statistical analysis in XLSTAT and SPSS program.
- Attended Medical transcription course from University of Karachi.

EXPERIENCES:

- Working in the department of Microbiology at Hazara University Mansehra
- As Associate Professor = Jan 2022 till the date
- As Assistant Professor = Jan 2016 to Jan 2022
As Lecturer = Jan 2013 to Jan 2016
As Teaching Assistant = September 2004 to Jan 2013.

- Working experience as a microbiologist in KU-HU microbiological lab for Earth quake affecters at Italian Field Hospital Mansehra.
- 3 months working experience as a microbiologist in Saudi Field Hospital.

COMPLETED PROJECTS

1. Treatment of iron mine tailing with iron oxidizing bacteria and *Sesbania sesban* plant in lab and field scale', NRPU Project no. 5731 KPK approved (2.926 million PKR).

Principle investigator.

2. Biodegradation of textile dye effluent green and sustainable technology by using indigenous resistant fungal isolates. NRPU. (3 million). **Co-PI.**

COURSES TAUGHT AND SUPERVISION:

Water and Wastewater treatment, Biodegradation, Advances in soil microbiology, Environmental microbiology and public health, Research methodology and scientific writing, Introduction to Epidemiology, Applied Microbiology

Number of MS research students passed = 44

PhD student (completed) = 02

RESEARCH PUBLICATIONS

As first and corresponding author:

1. Iqbal, A., Bhatti, Z. A., **Maqbool, F.**, Siddiqui, M. F., Zeb, S., Zhao, Y. G. ... & Hussain, Z. (2024). Effect of electrode in UASB-MFC reactor for nitrogen removal under anammox condition and its microbial community profile. *Desalination and Water Treatment*, 100300 (**Impact factor: 1.4**).
2. Bhatti, ZA, Syed, M, **Maqbool, F.**, Zhao, Y.G., Ying, X., Siddiqui, M.F., Mahmood, Q. (2022). Potential of molasses substrate for bioelectricity production in microbial fuel cell with the help of active microbial community. *Int. J Energy Res.* 46(8): 11185-11199 (IF = 5.1).
3. Xu, Y, **Maqbool, F.**, Meki, K., Bhatti, Z. A., Siddiqui, M. F. (2021). Exploitation of native plants and microbial diversity profiling for phytoremediation of Petroleum

hydrocarbon contaminated Coastal soil. *Fresen. Environ. Bull.* 30(11): 11670-11679 (IF = 0.5).

4. Noor, A. U., **Maqbool, F.**, Bhatti, Z. A. Khan, A.U. (2020). Epidemiology of CoViD-19 Pandemic: Recovery and mortality ratio around the globe. *Pak. J. Med. Sci.* 36 (COVID19-S4) <https://doi.org/10.12669/pjms.36.COVID19-S4.2660>. (Impact factor: 0.83).
5. **Maqbool, F.**, Bhatti, Z. A., Siddiqui, M. F., Khan, I., Zhao, Y- G., Sajid, M., Kalsoom, U., Mehmood, Q., Nawaz, F. (2020). Inoculum addition in the presence of plant rhizosphere for petroleum polluted soil remediation In: Hakeem, K.R. et al. 1st Ed. Bioremediation and Biotechnology: Sustainable Approaches to Pollution Degradation. Pg- 153-165, Springer Nature, Switzerland.
6. **Maqbool, F.**, Kamal, R., Bhatti, Z. A., Pervez, S., Sajid, M., Haleem, K., Faridullah (2019). Effect of hydrocarbon degrading inoculum for carwash industrial effluent treatment in UASB reactor, *Desa. Water Treat.* 164: 31-38. (1.3).
7. Bhatti, Z. A., Waheed, A., **Maqbool, F.**, Zhao, Y.G., Qayyum, S., Mehmood, Q., Faridullah, F. (2019). Microbial fuel cell using UASB as anode and effects of hydrogen peroxide on treatment efficiency. *J. of Water Chemistry and Technology*, 41(1): 13- 20. (Impact factor: 0.25).
8. **Maqbool, F.**, Bhatti, Z.A., Nazir, H., Qayyum, S., Zhao, Y-G., Khan, I., Kamal, R., Pervez, A. (2017). Confectionery waste water treatment through upflow microbial fuel cell. *Desa. Water Treat.* 99: 248–254. (Impact factor: 1.6).
9. **Maqbool, F.**, Ying, X., Zhao, J., Wang, Z., Gao, D., Zhao, Y., Bhatti, Z. A. (2012), Rhizodegradation of petroleum hydrocarbons by *Sesbania cannabina* in bioaugmented soil with free and immobilized consortium. *J. of Hazar. Mater.*, 237-238: 262-269, Elsevier (**Impact factor: 6**).
10. **Maqbool, F.**, Ying, X, Dongmei, G., Bhatti, A. B., Wang, Z. (2012), Soil texture effects on rhizodegradation of crude oil contaminated soil. *J. of Resi. Sci. & Technol.*, 9 (3): 73-79 (**Impact factor: 0.54**).
11. **Maqbool, F.**, Wang, Z., Malik, A. H., Pervez, A., Bhatti, Z. A., (2013). Rhizospheric biodegradation of crude oil from contaminated soil. *Adv. Sci. Lett.*, 19, 2618-2621 (**Non SCI**).

12. **Maqbool, F.**, Bhatti, Z. A., Malik, A. H. Mahmood, Q. (2011), Effect of Landfill Leachate on the Water Quality of the Salhad Stream in Abbottabad, Pakistan. *Inter. J. Environ. Res.* 5 (2): 491-500 (**Impact factor: 1.48**).
13. **Maqbool, F.**, Bhatti, Z. A., Malik, A. H., Pervez, A. and Suleman, M. (2012). Application of regression model on stream water quality parameters. *Pak. J. Agri. Sci.*, 49(1), 95-100 (**Impact factor: 1**).

PUBLICATIONS

YEAR 2025

14. Rafaque, Z., Khan, F., Khan, N., Usman, M., Kabir, S., Shah, D.A., **Maqbool, F.** and Nivanthi Fernando, G.S., 2025. Investigating the molecular determinants of colistin resistance in Enterobacteriaceae at a tertiary care hospital of Abbottabad, Pakistan. *Discover Life*, 55(1), p.34.
15. Wang, R., Tan, H., Huang, X., Wang, J., Su, W., Maqbool, F., ... & Zhao, J. (2025). Impact of Micro-and Nano-Plastics on Marine Organisms under Environmentally Relevant Conditions. *Aquatic Toxicology*, 107475.

YEAR 2024

16. Ahmad, S. S., Siddiqui, M. F., **Maqbool, F.**, Ullah, I., Adnan, F., Albutti, A., ... & Rahman, Z. (2024). Combating Cariogenic *Streptococcus mutans* Biofilm Formation and Disruption with Coumaric Acid on Dentin Surface. *Molecules*, 29(2), 397. IF= 4.2
17. Zeb, F., Haleem, K. S., Almuqbil, M., Rashid, M., Hussain, W., **Maqbool, F.**, ... & Asdaq, S. M. B. (2024). Age, gender, and infectious status-wise assessments of hematological parameters among patients with dengue infection. *Heliyon*, 10(13).
18. Ahmad, J., Siddiqui, M.F., Singh, L., Maqbool, F., Qayyum, S., Ullah, I., Adnan, F., Rahman, Z. and Shah, M.A. (2024). Algae a valuable biomass for bioethanol production. In *Algae Based Bioelectrochemical Systems for Carbon Sequestration, Carbon Storage, Bioremediation and Bioproduct Generation* (pp. 143-155). Academic Press.

YEAR 2023

19. Yang, C., Yin, L., Guo, Y., Han, T., Wang, Y., Liu, G., **Maqbool, F.**, Xu, L., Zhao, J. (2023). Insight into the absorption and migration of polystyrene nanoplastics in

Eichhornia crassipes and related photosynthetic responses, *Science of The Total Environment*, 892, <https://doi.org/10.1016/j.scitotenv.2023.164518>.

20. Ahmad, J., Siddiqui, M.F., Singh, L., **Maqbool, F.**, Ullah, I., Adnan, F. and Shah, M.A. (2023). In: Biocatalysts in Biohydrogen Production. Transition Metal-Based Electrocatalysts: Applications in Green Hydrogen Production and Storage, ACS Symposium Series, 1435: 205-217.

YEAR 2022

21. Siddiqui, M.F., Tabraiz, S., **Maqbool, F.**, Adnan, F., Ullah, I., Shah, M.A., Jadoon, W.A., Mehmood, T., Qayyum, S. and Rahman, Z. (2022). Targeting microbial biofouling by controlling biofilm formation and dispersal using Rhamnolipids on RO membrane. *Membranes*, 12(10): 928 (IF= 4.56).
22. Chen, Y., Wang, J., Zhao, Y. G., **Maqbool, F.**, Gao, M., Guo, L., Ji, J., Zhao, X., & Zhang, M. (2022). Sulfamethoxazole removal from mariculture wastewater in moving bed biofilm reactor and insight into the changes of antibiotic and resistance genes. *Chemosphere*, 298, 134327. Advance online publication. <https://doi.org/10.1016/j.chemosphere.2022.134327>. (IF=7)
23. Zhang, Y., Zhao, Y-G., **Maqbool, F.**, Hu, Y. (2022). Removal of antibiotics pollutants in wastewater by UV-based advanced oxidation processes: Influence of water matrix components, processes optimization and application: A review. *J. of Water Process Engineer.* 45 102496 (IF=5.4).

YEAR 2021

24. Albutti, A., Gul, M.S., Siddiqui, M.F., **Maqbool, F.**, Adnan, F., Ullah, I., Rahman, Z., Qayyum, S., Shah, M.A., Salman, M. (2021). Combating biofilm by targeting its formation and dispersal using gallic acid against single and multispecies bacteria causing dental plaque. *Pathogens*, 15; 10(11):1486. (Impact factor 3.4).
25. Sakhawat, K., Ullah, F., Ahmed, I. **Maqbool, F.**, Khan, M., Tabassum, H., Abrar M. (2021). Simple synthesis of Ag-doped ferrites nanoparticles for its application as bactericidal activity. *Appl Nanosci.* **11**, 2801–2809. <https://doi.org/10.1007/s13204-021-02149-z>. (Impact factor 3.67).
26. Wang, X., Wang, J., Zhao, Y-G., **Maqbool, F.**, Guo, L., Gao, M., Jin, C., Ji, J. (2021). Control of toxic sulfide in mariculture environment by iron-coated ceramsite and

immobilized sulfur oxidizing bacteria. *Sci. Tot. Environ.* 793 148658. <https://doi.org/10.1016/j.scitotenv.2021.148658>. (Impact factor 6.5)

27. Abbasi, U., Bhatti, Z. A., **Maqbool, F.**, Hayat, M. T., Faridullah, Aslam, B., Shaheen, A., Mahmood, Q., AlGarni, T. S. (2021). Chemidegradation of polychlorinated biphenyls from transformer oil wastewater. *Inter. J. of Environ. Sci. Tech.* <https://doi.org/10.1007/s13762-021-03177-6>. (impact factor 2.5)
28. Siddiqui, M. F., Ullah, Z., Singh, L., **Maqbool, F.**, Qayyum, S., Ullah, I., Rahman, Z., Adnan, F. (2021). In: Role of bioelectrochemical systems for bioremediation of wastewaters and bioenergy production, Editor(s): Lakhveer Singh, Durga Madhab Mahapatra, Delivering Low-Carbon Biofuels with Bio-product Recovery, Elsevier, pg. 85-100, ISBN 9780128218419, <https://doi.org/10.1016/B978-0-12-821841-9.00010-4>.

YEAR 2020

29. Abbasi, U, Bhatti, Z. A., Mahmood, Q., **Maqbool, F.**, Faridullah, Hayat, M. T. (2020). Ozone oxidation of wastewater containing trichlorobiphenyl and used transformer oil. *Heliyon* 6 (2020) e05098 (ISSN 2405-8440) (Impact factor: 1.85).
30. Wang, J., Zhao, Y. G., **Maqbool, F.** (2020). Capability of *Penicillium oxalicum* y2 to release phosphate from different insoluble phosphorus sources and soil. *Folia Microbiologica* 66, <https://doi.org/10.1007/s12223-020-00822-4> (Impact factor: 1.87).
31. M. F. Siddiqui, L. Singh, **F. Maqbool**, Z. Rahman, A. Rehman, F. Adnan, S. Qayyum, A. Khan (2019). *Microbial Biofilm Cell Systems for Remediation of Wastewaters In: Bioremediation and Biotechnology: Sustainable Approaches to Pollution Degradation Vol 1*. Pg- 293-303, Springer Nature, Switzerland.

YEAR 2019

32. S. Nazir, A. Rabbani, K. Mehmood, **F. Maqbool**, G. Mujtaba, M. F. Khan, M. Sajid, (2019). Antileishmanial activity and cytotoxicity of ZnO- based nano-formulations. *International Journal of Nanomedicine*. 14: 7809 – 7822. **(IF 5.2)**.
33. M. F. Siddiqui, H. Winters, **F. Maqbool**, S. Qayyum, L. Singh, I. Ullah, Z. Rahman, F. Adnan, A. Rehman (2019). Tannic acid treatment to deter microbial biofouling in flow cell system and on RO membrane in drip flow reactor. *Desalination and Water Treatment*. 171, 62-66. **(1.3)**.

34. Pervez, S, Nawaz, M.A., Jamal, M., Jan, T., **Maqbool, F.**, Shah, I., Aman, A.U., Qader, S.A. (2019). Improvement of catalytic properties of starch hydrolyzing fungal amyloglucosidase: Utilization of agar-agar as an organic matrix for immobilization. *Carbohydr. Res.* 486 (IF = 1.92).

YEAR 2017

35. Ibrar, K., Sadia, Q., Shehzad, A., **Farhana, M.**, Isfahan, T., Kashif, H., Zhen, M. C. (2017). Cloning and characterization of pyruvate carboxylase gene responsible for calcium malate overproduction in *Penicillium viticola* 152 and its expression analysis. *Gene*, 605 81–91 (**Impact factor: 2.9**).
36. Ibrar, K., Sadia, Q., **Farhana, M.**, Rehmad, M, Hayyat, A., Farooqui, M. S. (2017). Microbial organic acids production, biosynthesis mechanism and applications: Mini review. *Indian J. of Geo Marine Sci.* 46(11): 2165-2174 (**Impact factor: 0.17**).

YEAR 2016

37. Javeria, F., **Farhana, M.**, Muhammad, N. K., Saira, G., Anees, F., Zulfiqar, A. B. (2016). Biological Monitoring of Harnoi Stream Water Quality, Abbottabad, North Pakistan. *Sci. Technol. & Devel.* 35 (3): 98-109.
38. Sadia, Q., Ibrar, K., Yangguo, Z., **Farhana, M.**, Changsheng, P. (2016). Sequential extraction procedure for fractionation of Pb and Cr in artificial and contaminated soil. *Main Group Metal Chem.*, 39 (1-2): 49-58 (**Impact factor: 0.5**).
39. Sadia, Q., Ibrar, K., **Farhana, M.**, Yangguo, Z., Qingbao, G., Changsheng, P. (2016). Isolation and characterization of heavy metal resistant fungal isolates from Industrial soil, China. *Pakistan J. Zool.*, 48(5): 1241-1247 (**Impact factor: 0.47**).
40. Ahmed, T., Bhatti, Z. A. **Maqbool, F.**, Mahmood, Q., Faridullah, Qayyum, S., Mushtaq, N. (2016). A comparative study of synthetic and natural coagulants for silver nanoparticles removal from wastewater. *Desal. & Wat. Treat.* 1–6. 57:18718-18723. Taylor & Francis (**Impact factor: 1.1**).

YEAR 2015

41. Bhatti, Z.A., **Maqbool, F.**, Malik, A.H., Pervez, A., Mahmood, Q. (2014). Municipal wastewater minimization through waste H₂O₂ from food industry, *Desal. Water Treat.* 55:1, 107-113, DOI: 10.1080/19443994.2014.913991.

42. Sadia, Q., Ibrar, K., **Farhana, M.**, Chengsheng, P. (2015). Remediations technology for heavy metal contaminated soils. *J. of Inter. Acad. Res. for Multidis.* 320-5083, 3: 11. (Non SCI).
43. Zulfiqar A. B., **Farhana, M.**, Sadia, Q., Javeria, F., Romana, M. and Yang-Guo, Z. (2015), Characterization of toxic metals adsorption isotherms on activated carbon using locally design jar test apparatus, *Sci, Technol. & Develop.* 34 (2): 109-113 (**HEC recognized, PCST**).
44. Zulfiqar A. B., **Farhana, M.**, Javeria, F., Sadia, Q., and Amir, H. M. (2015), Survey of Waste Collection and its Energy Generation Potential in Nawanshehr, Pakistan, *Sci. Technol. Develop.* 34 (3): 130-134 (**HEC recognized, PCST**).

YEAR 2014

45. Zhao, Y-G, Feng, G., Bai, J., Chen, M, **Maqbool, F.** (2014). Effect of copper exposure on bacterial community structure and function in the sediments of Jiaozhou Bay, China, *World J. Microbiol. Biotechnol.*, DOI 10.1007/s11274-014-1628-x, Elsevier (**Impact factor: 1.7**).
46. Zhao, Y-G, Chen, M., Bai, J., Li, X., **Maqbool, F.**, Wang, Q. (2014). Response of microbial community to petroleum stress and phosphate dosage in sediments of Jiaozhou Bay, China, *J. Oce. Uni. China*, 13 (2): 249-256, Elsevier. **1.1**
47. Bhatti, Z.A., **Maqbool, F.**, Langenhove, H.V. (2014). Rendering plant emissions of volatile organic compounds during sterilization and cooking process, *Environ. Technol.*, 35(11): 1321–1327, Taylor & Francis (**Impact factor: 1.8**).
48. Bhatti, Z.A., **Maqbool, F.**, Malik, A.H., Mehmood, Q. (2014), UASB reactor startup for the treatment of municipal wastewater followed by advanced oxidation process, *Braz. J. of Chem. Engineer.* 31 (03): 715-726 (**Impact factor: 1.04**).

YEAR 2012 or EARLIER

49. Liu R., Gao, C., Zhao, Y-G, Wang, A., Lu, S., Wang, M., **Maqbool, F.**, Huang, Q. (2012). Biological treatment of steroidal drug industrial effluent and electricity generation in the microbial fuel cells, *Biores. Technol.*, 123: 86-91, Elsevier (**Impact factor: 7.5**).
50. Gao, D, Xu, Y., **Maqbool, F.** and Xu, Z. (2011). Bio-treatment of Hydrocarbon polluted soil with agriculture residues, *Ener. Proced.*, 5 :1558–1562, Elsevier.

51. Bhatti, Z.A., Mahmood, Q., Raja, I.A., Naim, R., Mehmood, Z., **Maqbool, F.** (2009). Low-cost municipal wastewater treatment options for use in Pakistan- A review. *J. of Sci Vision.*, 15(1): 71-78. Vision (**Non SCI**).
52. Raza, S., **Maqbool, F.**, Bhatti, Z.A., Rehman, M. M., Nadeem, S., Raza, A., Murtaza, B.N. (2014). Prevalence of Hepatitis C infection in young adults of district Bannu, *Journal of Pharmacy and Biological Sciences*, V. 9(1) Ver. VI: 71-76 (**Non SCI**).
53. Muhammad, I., Abid, H., Samia, Z., Fariha, H., **Farhana, M.** and Muhammad, I. (2015), Diversity of *Staphylococcus aureus* in clinical isolates, their prevalence and antimicrobial resistance in district Peshawar, Pakistan. *World Applied Sciences J.* 32 (11): 2213-2217 (**Non SCI**).
54. F. Nawaz, H. Khan, Naushad, A.T., Inamullah, Sidra, P., Sadia, Q., Farah, A., S. Gul., **F. Maqbool,** Ayesha, B. (2018). Biochemical and stability analysis of variations of indigenous *Brassica juncea* genotype in different agro-climatic environmental conditions of Pakistan. *Inter. J. of Biosci.* 12(6): 139-151.

CONFERENCE / SEMINARS PARTICIPATION

1. Participated in Workshop organized by PCRWR, IWMI, Ministry of Water Resources, GOP at PCRWR Islamabad, Pakistan Water Week on 24-28 Oct, 2022.
2. Contributing Member of American Society of Microbiology.
3. Attended course of Core skills Development Course for teachers organized by British Council, 06 August 2021.
4. Participated in two days workshop 'Research methods in Biological Sciences and use of End Note software, May 2-3, 2019 at Hazara University, Mansehra.
5. Participated in one day even 'Microbes in Action' organized by American Society of Microbiology, Himalaya Chapter December 12, 2019 at COMSATS University Islamabad, Abbottabad campus
6. Participated in 8th International conference Environmental Sustainable Development, August 21-23, 2019, COMSATS Abbottabad.
7. Participated in Regional Science Olympiad / Fair organized by Directorate of Science & Technology, Govt. Khyberpukhtonkhwa, organized at Jalal Baba Auditorium, Abbottabad, 12 June 2019.

8. World Water Day Seminar at Hazara University, 22 March 2018, Organized by Student affairs (Presenter).
9. 4th Conference on Computational Biology & Genomics 27-29 September, 2017 Held at Hazara University Mansehra (Attended).
10. Organized a training workshop on “Biosafety Training in KPK with A Skill Based Approach” at Hazara University Mansehra on 16-18 November 2016, sponsored by American Society for Microbiology, Health Security Partners and Pakistan Biological Safety Association.
11. 1st Saudi Conf. on Environment, Advance oxidation and coagulation/flocculation Processes for the treatment and reuse of grey water. 7-9 March, 2016 Abha, Asser, Kingdom Saudi Arabia.
12. Nano Sciences Conference *National Centre for Physics, Islamabad, Pakistan*. 2014. Poster presented “Nanocatalytic Gasification of Corn Biomass into Biofuels”.
13. Organized 2 days conference on Current Approaches in Microbiology at Hazara University, Mansehra Venue Nathia Gali on 27-28 June 2013.
14. SETACAP Asia / Pacific 2010 annual meeting, Guangzhou, China. Oral presentation “Statistical analysis of water quality parameters of Salhad stream affected by landfill leachate”.
15. ESDev-2009, COMSATS, Abbottabad, Pakistan. Oral presentation “Comparison of Salhad stream water quality in dry and wet seasons”.
16. 24th International Conference on Solid Waste Technology and Management held in Philadelphia, PA, U.S.A. on March 15 - 18, 2009. Oral presentation “Physicochemical Water Quality Seasonal Variations of the Salhad Stream, South Abbottabad, North Pakistan”
17. ESDev-2009, pg. 805-810 (Provincial government award winning paper). Oral presentation “Treatment and reuse of industrial wastewater using advance oxidation process”.
18. Participated in Sixth International Biennial conference of Microbiology, Organized by Pakistan Society of Microbiology, Held at Department of Microbiology, Quaid-i-Azam University, Islamabad From March 18th-21st 2007.14.

19. Organized first National Workshop on Genetic engineering Techniques from December 1st to 3rd 2004, at Hazara University Mansehra.

MEMBERSHIP

- Member American Society for Microbiology
- Member Pakistan Society for Microbiology

REFERENCES

1. Dr. Muhammad Irshad, Professor, Dean of Health Sciences, Department of Environmental Sciences, COMSATS University Islamabad, Abbottabad Campus, Pakistan, Email: mirshad@cuiatd.edu.pk, Mobile #: 923335073162
2. Dr. Amjad Hassan, Professor, Director ORIC University of Wah, Pakistan, Email: dir.oric@uow.edu.pk, Mobile #: 923348388963
3. Dr. Yang Guo Zhao, Associate Professor, Microbial ecology, College of Environmental Science and Engineering, Ocean University of China, Qingdao 266100, ygzhao@ouc.edu.cn.