

## **DR. ANJUM NASIM SABRI**

### **RESEARCH PROJECTS:**

1. **Co-principal investigator** in S&T Biotechnology project (2002-2004). Entitled“ screening of chromium resistant bacteria and cyanobacteria for detoxification potential & plant growth stimulation under chromium stresses”. **Of worth 22. 65 million**
2. **Principal investigator**, Bacterial biodiversity from different biofilms: (2005-2006) Punjab University , Lahore. **of worth.Rs 1,60,000**
3. **Principal investigator** in Compatible solute analysis of salt tolerant bacteria (2007-2008). Punjab University , Lahore. **of worth.Rs 1,25,000**
4. **Principal investigator** in Cellulose degrading (cellulase producing) bacteria from biofilms (2008-2009). Punjab University , Lahore **Of worth.Rs 1,25,000.**
5. **Principal Investigator**, Effect of chromium on biofilm formation: bacterial biofilms in association with cyanobacterial biofilms. (2009-2010). Punjab University, Lahore **Of worth. Rs 1,50,000.**
6. **Principal Investigator**, Determination of antibacterial activity of *Aloe vera* against biofilm forming bacteria (2010-2011). Punjab University, Lahore **Of worth Rs 2,00,000.**
7. **Principal Investigator**, Screening for the antibacterial effect of ginger and turmeric on cell wall constituents and polypeptide profiling of bacterial strains (2011-2012). Punjab University, Lahore **Of worth Rs 2,00,000.**
8. **Principal Investigator**. Screening for the effect of ginger extracts on embryo development and angiogenesis in chicken eggs (2012-2013). Punjab University. Principle Investigator, Dr Anjum Nasim Sabri. **Of worth Rs 2,50,000.**
9. **Principal Investigator**. (2013-2014). Effect of ginger extract on motility and biofilm formation of bacteria isolated from dental plaques and dental unit water lines. Punjab University. Principle Investigator, Dr Anjum Nasim Sabri. **Of worth Rs 2,50,000.**
10. **Co Principal Investigator**, Fine mapping of hepatitis C virus envelope protein 2 region/residues responsible for the resistance from autologous antibodies and broadly neutralizing antibody 1:7. Startup Research Grant of PKR 0.4998 million. **HEC.**
11. **Co Principal Investigator**, Preparation of immune-chromatographic device for early diagnosis of Dengue virus infection. Startup Research Grant of PKR 0.4916 million. . **HEC.**
12. **Co Principal Investigator 2014**, Phenotypic and molecular characterization of *CTX-M* encoding beta-lactamase from clinical *Enterobacteriaceae*. . Startup Research Grant of PKR 0.495 million . **HEC**
13. **Principal Investigator**. (2014-2015). Bioremediation of arsenic by indigenous arsenic resistant biofilm forming bacteria. Punjab University., **Of worth Rs 2,50,000.**
14. **Principal Investigator (2015-2016)**. Biofilm formation by selenium resistant indigenous bacteria: Role in detoxification and bioremediation. Punjab University., **Of worth Rs 2,50,000.**
15. **Principal Investigator (2015-2016)**. Isolation and characterization of multiple metal resistant bacteria and their potential to reduce As (v) and Cr (VI). Joint Project with Dr Yasir Rehman. Punjab University., **Of worth Rs 1,50,000.**
16. Joint project with Dr Abid Sheikh. (2015-2016). Targeting hepatocellular carcinomas by downregulation of cancer metabolism genes either single or in combinations, Punjab University., **Of worth Rs 1,50,000.**
17. Joint project with Ms Ammara. (2015-2016). designing of PRKD1, homology models and their docking studies with potent inhibitors, Punjab University., **Of worth Rs 1,50,000.**
18. **Co Principal Investigator 2015**, UV protection from cyanobacteria and their efficiency. Startup Research Grant of PKR 0.4485 million. **HEC.**

### **RESEARCH GRANTS :**

19. Genetic identification of bacteria from biofilms (2006) From Doctoral coordination committee Programme (DPCC) Punjab University. **Rs, 100000/-**
20. Isolation of biofilm forming bacteria from stomach ulcer. 2014-2015. Punjab University. **Rs, 8,00,000/-**

## **COLLABORATION WITH INDUSTRY FOR RESEARCH**

Brighto Paints, Lahore, Pakistan

## **INTERNATIONAL COLLABORATIONS:**

**Robert Edyvean** THE UNIVERSITY OF SHEFFIELD, Department of Chemical and Process Engineering ,  
Mappin Street Sheffield S1 3JD, UK .

## **EDITOR/MEMBER ADVISORY COMMITTEE OF SCIENTIFIC JOURNALS:**

I. Member, Editorial Board, Science International (Lahore), July 2006.-todate .

## **RESEARCH PUBLICATIONS**

### **IN HEC APPROVED AND OTHER JOURNALS OF NATIONAL & INTERNATIONAL REPUTE**

1. Sabri, A.N., and Hasnain, S.,1990. Plasmid bearing Gram-negative copper resistant bacteria from polluted waters. *Biologia*, **36(2)**, 63-66. HEC APPROVED
2. Sabri, A.N., Malik, A.N., and Hasnain, S., 1990. Characterization of plasmid bearing Gram-negative nickle toxicity hindering and warning biosensors of industrial pollutants. *Science International*, **2(4)**, 339-340. HEC APPROVED
3. Hasnain, S., and Sabri, A.N., 1991. Gram-negative bacteria conferring plasmid mediated cobalt resistance and some factors affecting conjugal transfer of plasmid. *Science International*, **3(4)**, 303-306. HEC APPROVED
4. Malik, A.N., Sabri, A.N., and Hasnain, S., 1991. Occurrence and transfer of iron- resistant plasmids in Gram-negative bacteria from industrial wastes. *Science International*, **3(4)**, 321-326. HEC APPROVED
5. Nasim, A., and Hasnain, S., 1991. Barium resistant Gram-negative bacteria from industrial effluents. *Science International*, **3(4)**, 311-314. HEC APPROVED
6. Hasnain, S., and Sabri, A.N., 1992. Tin-resistant plasmid bearing bacterium from the wastes of MIRDC. *Journal of pure and Applied Sciences*. **11(2)**, 115-118. HEC APPROVED
7. Sabri, A.N., Yasmin, A., and Hasnain, S.1992, Manifestation of bacterial role in stimulating *Triticum aestivum* seedling growth under stressess of lead acetate and lead nitrate. *Science International*, **4(2)**:177-184. HEC APPROVED
8. Hasnain, S., Saleem, F., and Sabri, A.N., 1993. Lead resistant bacteria from industrial effluents and their effects on the *Triticum aestivum* seedling growth under lead stresses. PP 193-205. In: *Biotechnology for Environment and Agriculture*, N.Ahmad, M. Ishaq; Y. Khan. and F.Sammar (eds). Karachi University, CMG Publications.
9. Sabri, A.N., Abbas, M and Hasnain, S., 1993.Growth Characteristics of Mercury resistant Pseudomonads from Industrial effluents and some factors influencing conjugal transfer of a plamid. *Science International*, **5(1)**: 51-58 HEC APPROVED
10. Sabri, A.N., Saleem, F., and Hasnain, S., 1993. Growth characteristics of lead resistant bacteria from polluted waters. *Proceedings of Pakistan congress of Zoology*. **Vol.13**,279-292. HEC APPROVED
11. Hasnain, S., and Sabri, A.N., 1993. Gram-negative bacterium carrying transferable iron-resistant marker and some factors affecting transfer frequency. *Punjab University Journal of Zoology*, **8**, 45-52.
12. Sabri, A.N., and Hasnain, S., 1994. Manganese resistant bacterium from polluted water: Some environmental factors influencing conjugal transfer of Mn-resistant plasmid. *Punjab University Journal of Zoology*,**9**, 45-51. HEC APPROVED
13. Saleem, F., Sabri, A.N., and Hasnain, S., 1994. Growth stimulation of *Triticum aestivum* seedlings under lead stress with non-rhizospheric bacteria. *Science International*, (Lahore), **6(2)**, 181-185. HEC APPROVED
14. Sabri, A.N., and Hasnain, S., 1994. Amplification of *divIVA*<sup>+</sup> gene of *Bacillus subtilis* and its effects on Spo phenotype. *Proceeding of Pakistan Congress of Zoology*, **14**, 221-236. HEC APPROVED
15. Sabri, A.N., Abbas, M., and Hasnain, S., 1995. Gram-negative bacteria conferring pleotropic metal and antibiotic resistances from industrial wastes. *Punjab. University Journal of Zoology*,**10**, 38-48.
16. Altaf, T., Sabri, A.N., and Hasnain, S.,1995. Curing of zinc resistant plasmid from Gram-negative bacteria and their effects on growth of *Triticum aestivum* under zinc stress. *Proceedings of Pakistan Congress of Zoology*., **15**, 189-200. HEC APPROVED

17. Hasnain, S., Sheikh, T.R., and Sabri, A.N., 1995. *Agrobacterium tumefaciens* inoculation at different pH levels affects *Triticum aestivum* germination , growth, sodium and auxin content of seedling under NaCl stress. *Science International*, **7(4)**, 525-530. HEC APPROVED
18. Sabri, A.N., and Hasnain, S., 1995. The effects of pH on antibiotics and chromium resistance in *Bacillus subtilis*. *Science International*, **7(4)**, 533-536. HEC APPROVED
19. Ali, S., Sabri, A.N., and Hasnain, S., 1995. Curing of plasmids conferring resistance to lead in bacteria and effects on inoculation on plasmid free and parental strains on the growth of *Triticum aestivum* under lead stress. *Proceedings of All Pakistan Science Conference*. **8(2)**, 175-180. HEC APPROVED
20. Hasnain, S., Akhtar, N., and Sabri, A.N., 1996. Alleviation of toxic effects of Cd and promotion of seedling growth of *Helianthus annuus* and *Triticum aestivum* with bacterial inoculation. *Pertanika Journal of tropical Agricultural Science*, **19(2)**, 17-23. **Malaysia**
21. Ifhtikhar, A., Sabri, A.N., Hasnain, S., 1997. Germination and growth responses of *Triticum aestivum* under salt stress after inoculating with *Agrobacterium tumefaciens* for different durations at variable temperatures. *Science International*, **9(1)**, 79-85. HEC APPROVED
22. Hasnain, S., Sabri, A.N., and Abbas, M., 1997. Some growth and genetic characteristics of chromium resistant *Bacillus subtilis* from polluted waters. *Science International*, **9(1)**, 87-94. HEC APPROVED
23. Saeed, F., Sabri, A.N., and Hasnain, S., 1997. Plasmid encoded resistance in bacteria and conjugal transfer of mercury resistant plasmid. *Proceedings of Pakistan Congress of Zoology*, **17**: 99-112. HEC APPROVED
24. Sabri, A.N., and Hasnain, S., 1997. Analysis of some cell wall constituents of vegetative cells and spores of *divIVA*<sup>+</sup> and *divIVA*<sup>-</sup> strains of *Bacillus subtilis*. *Proceedings of Pakistan Congress of Zoology*, **17**: 211-223. HEC APPROVED
25. Siddique, S., Sabri, A.N., and Hasnain, S., 1997. Growth effect of *Triticum aestivum* seedlings under NaCl stress after inoculating with plasmid bearing and plasmid-free bacterial strains. In: *Endeavours in biotechnology, Proceedings of 4th Meeting Tissue Culture. Bara gali*. pp 97-112
26. Mahmood, U., Sabri, A.N., and Hasnain, S., 1998. Involvement of plasmids associated with chromium resistant *Pseudomonas* strains in stimulation of *Triticum aestivum* seedlings grown under Cr-stresses. *Biologia (Biotechnology No.)* **44 (1&2)**: 204-217. HEC APPROVED
27. Mirza, T. Z., Sabri, A.N., and Hasnain, S., 1998. Salt tolerant bacteria from rhizosphere, rhizoplane, histoplane and phylloplane of *Mazus* plant inhabitant of salt range. *Science International*, **10(2)**, 151-156. HEC APPROVED
28. Sabri, A.N., and Hasnain, S., 1998. Impact of bacterial inoculation on germination , early growth, chromium uptake and some biochemical aspects of *Vigna radiata* under Cr-stresses. *Science International*, **10(2)**, 157-160. HEC APPROVED
29. Hassan, Z., Sabri, A.N., and Hasnain, S., 1998. Plasmid associated temperature and pH dependent detoxification ability of mercury resistant bacteria. *Proceedings of Pakistan Congress of Zoology*, **18**: 57-70. HEC APPROVED
30. Sabri, A.N., Mirza, T.Z and Hasnain, S., 1999. Root and tissue associated salt tolerant bacteria from *Launium nudicolum* inhabitant of salt range. *Science International*, **11(2)**, 217-222. HEC APPROVED
31. Ahmed, A., and Sabri, A.N., 2004. Effect of varying temperature on growth, morphology and soluble protein content of *divI* and *divII* mutant strains of *Bacillus subtilis*. *Science International*, vol. 16 (1):43-52. HEC APPROVED
32. Javed, S., Batool., R., Sabri, A. N., and Hasnain, S., 2004. Isolation of *Pseudomonas* sp. from biofilms: effect of mono and mixed culturing on plant growth promotion and soil aggregation . *Science International*, **16 (3)**: 215-221. HEC APPROVED
33. Mirza, T.Z ., Mahmood, A., Hasnain, S., and Sabri, A.N., 2005. Spore germination response of *div* mutant strains of *Bacillus subtilis* strain to ALA and AGFK system. *Pakistan Journal of Biological Sciences*. **8(10)** : 1411-1419 HEC APPROVED
34. Maqbool, A., Sabri, A. N., and Hasnain, S., 2006. Metal and antibiotic resistance exhibiting *bacilli* capable of degrading diphenylamine, phenolphthaline and titriplex. *Science International*: **18(4)**: 297-3013
35. Anwar , S., Sabri, A.N., and Hasnain, S., 2006. Study of varying temperature and pH on cell morphology of wild type PY79 and sporulation defective strain of *Bacillus*. *Research Journal of Microbiology*. **2(1)**: 66-73. ACADEMIC JOURNALS ,USA.
36. Anwar , S., Sabri, A.N., Rehman, H., Faisal, M., and Hasnain, S., 2007. Impact of temperatures and pH on soluble protein content and protein profile of PY79 (wild type) and sporulation defective strain of *Bacillus*. *Research Journal of Microbiology*. **2(11)**: 866-870. ACADEMIC JOURNALS ,USA.

37. Hussain, N., Jaffary, G., Sabri, A.N., Hasnain, S., and Mir, N., (2008) Budd chiari syndrome in fifteen year old girl with systemic lupus erythematosus *International Journal of Health Research*, **1(2)** :45-49.
38. Hussain, N., Jaffary, G., Sabri, A.N., Hasnain, S., and M.ir, N., (2008), Pulmonary tuberculosis in a patient with systemic Lupus Erythematosus A case study *Annals of King Edward medical University Lahore* , Pakistan. **14 (2)**: 79-81.
39. Liaqat, I. and Sabri, A.N., (2009) *In Vitro* Efficacy of Biocides against Dental Unit Water Line (DUWL) Biofilm Bacteria. *Asian Journal of Experimental Science.*, **23 (1)**: 67-75
40. Liaqat, I. and Sabri, A.N., 2010. A Laboratory Approach to Characterize Biocides Resistant Isolates from Dental Unit Water Line Biofilms. *Asian J. Exp. Biol. Sci.* **1 (2)** : 460 – 470.
41. Liaqat, I., and Sabri, A.N., 2010. Characterization of biocides resistant isolates from dental unit water line biofilms by culture dependent approach. *African J. Clinic. Exp. Microbiol.* **11(1)**:129-136.
42. Liaqat, I., and Sabri, A.N., 2011. Biofilm, dental unit water line and its control; review article. *African Journal of Clinical and Experimental Microbiology*. 12(1): 15-21.
43. Hussain N., Jaffery G., Hasnain S. and Sabri, A.N., 2011. Mutational analysis of CTLA4 gene in Pakistani SLE patients. *World academy of science and technology*. 78:316- 318.
44. Shahbaz, S., Ghauri, S.M., Shaheen, S., Mubarak, A., Sabri, A.N., 2014. Histomorphological changes in Hypertrophied Tonsils in Children. *Pakistan Journal of Medical and Health Sciences.* **8 (3)**: **510-514**.
45. Sarwar, S., Saleem, K., Fatima, W., Sabri, A.N. 2015. Detection of Extended Spectrum Beta Lactamases producing MRSA from hospital waste water in Lahore. *Science International, Lahore*. 27(1):399-402 (**HEC recognized Z category**).
46. Mohsin, H., Asif, A., Fatima, W., Nadeem, N., Sabri, A.N., 2016. Assessment of biocalcification by water absorption test by microorganisms from oil contaminated sites. *Punjab University Journal Of Zoology*. **31 (1)**: **9-12 (HEC recognized Y category)**.
47. Raice Ahmad, Hafiz Zeshan Wadood and Anjum Nasim Sabri 2016. Comparison of disaggregation procedures for enumeration and characterization of municipal sewer biofilm bacteria. *Science International, Lahore*. **28(4)**, **3827-3830. (HEC recognized Z category)**.
48. Qurashi, A.W., and Sabri, A.N. 2016 Induction of Osmotolerance by *Staphylococcus sciuri* HP3 in *Lens esculenta* Var. Masoor 93 under NaCl Stress. *Pakistan Journal of Life and Social Sciences*, 14(1): 42-51.

#### IN IMPACT FACTOR JOURNALS

1. Hasnain, S., and Sabri, A.N., 1990. Gram-negative bacteria harbouring mercury resistant plasmid and some factors affecting conjugal plasmid transfer. *Pakistan Journal of Zoology*, **22(4)**, 335-343. **Impact factor 0.404**
2. Hasnain, S., and Sabri, A.N., 1992. Effects of temperatures and pH on conjugal transfer of zinc-resistant plasmids residing in Gram-negative bacteria isolated from industrial effluents. *Environmental pollution*, **76(3)**, 245-249. **Impact factor 4.143**
3. Sabri, A.N., and Hasnain, S., 1992. Identification of hybrid plasmid capable of reverting spore forming ability of *Bacillus subtilis divIVA* mutant strain. *Pakistan Journal of Zoology*, **24(2)**, 321-327. **Impact factor 0.404**
4. Sabri, A.N., and Hasnain, S., 1994. Temperature effects on cell morphology of *divIVA*<sup>+</sup> and *divIVA*<sup>-</sup> transformants of *Bacillus subtilis*. *Pakistan Journal of Zoology*, **26(2)**, 149-161. **Impact factor 0.404**
5. Sabri, A.N., and Hasnain, S., 1994. Effect of pH on the cell morphology of *divIVA*<sup>+</sup> and *divIVA*<sup>-</sup> transformants of *Bacillus subtilis*. *Pakistan Journal of Zoology*, **26(4)**, 309-320. **Impact factor 0.404**
6. Sabri, A.N., and Hasnain, S., 1996. Starvation effects on the cell morphology of *divIVA*<sup>+</sup> and *divIVA*<sup>-</sup> transformants of *Bacillus subtilis*. *Pakistan Journal of Zoology*, **28(1)**, 25-33. **Impact factor 0.404**
7. Sabri, A.N., and Hasnain, S., 1996. Effect of temperature and pH on the peptidoglycan content of *divIVA*<sup>+</sup> and *divIVA*<sup>-</sup> strains of *Bacillus subtilis*. *Pakistan Journal of Zoology*, **28(2)**, 145-150. **Impact factor 0.404**
8. Sabri, A.N., and Hasnain, S., 1996. Spore germination analysis of *Bacillus subtilis divIVA* mutant strain in AGFK system. *Pakistan Journal of Zoology*, **28 (3)**, 213-224. **Impact factor 0.308**
9. Sabri, A.N., and Hasnain, S., 1996. Polypeptide products in *divIVA*<sup>+</sup> and *divIVA*<sup>-</sup> strains of *Bacillus subtilis* under varying temperature, pH and starvation conditions. *Pakistan Journal of Zoology*, **28(4)**, 303-309. **Impact factor 0.308**
10. Hasnain, S., and Sabri, A.N., 1997. Growth stimulation of *Triticum aestivum* seedlings under Cr-stresses by non rhizospheric pseudomonad strains. *Environmental pollution*. **97(3)**: 265-273. **Impact factor 4.143**

11. Khan, A.A., Sabri, A.N., Mansoor, M.K., and Iftikhar, I., 2005. Hydropericardium syndrome in Pakistan : a review. *World's Poultry Science Journal* , **61**:649-656. **Impact factor 1.089**
12. Ahmed, A., Sabri, A.N., and Hasnain, S., 2008. Effect of varying temperature on growth, morphology and soluble protein content of *divIV* and *divV* mutant strains of *Bacillus subtilis*. *African Journal of Biotechnology*.**7(10)**:1505-1511. **Impact factor 0.573**
13. Liaqat, I. and Sabri,A.N.,(2008) .Effect of biocides on biofilm bacteria from Dental Unit water lines .*Current Microbiology* , **56**: 619-624. **Impact factor 1.423**
14. Liaqat, I. and Sabri,A.N. ,(2008) Analysis of cell wall constituents of biocide- resistant isolates from dental unit water line biofilms. *Current Microbiology*.**57**: 340-347. **Impact factor 1.423**
15. Liaqat, I, Bachmann, R.T., Sabri,A.N., Edyvean, R.G.J., and Biggs, C.A., ,(2008) Investigating the effect of patulina, penicillic acid and EDTA on biofilm formation of isolates from dental unit water lines *Applied Microbiology and Biotechnology* . **81**:**349–358**. (DOI. **10.1007/s00253-008-169.**) **Impact factor 3.337**
16. Ali, B., Sabri, A.N., Ljung ,K., and Hasnain, S.,(2009) Quantification of indole-3- acetic acid from plant associated *Bacillus* spp and their phytostimulatory effect on *Vigna radiata* (L) . *World Journal of Microbiology and Biotechnology* **25** : 519-526. **Impact factor 1.779**
17. Ali, B., Sabri, A.N., Ljung , K., and Hasnain, S.,(2009) .Auxin production by plant associated bacteria: impact on endogenous IAA content and growth of *Triticum aestivum* L. *Letters in Applied Microbiology* , **48** : 542–547.( doi:**1111/j.1472-765x.2009.02565.x**) **Impact factor 1.659**
18. Liaqat, I. and Sabri, ,A.N. , 2009. Isolation and characterization of biocide resistant bacteria from dental unit water lines biofilms. *Journal of Basic Microbiology*. **49**: 275–284 (doi.**10.1002/jobm.200800212**) **Impact factor 1.823**
19. Liaqat,I, Sumbal, F., Sabri, A.N., 2009. Tetracycline and chloramphenicol efficiency against selected biofilm forming bacteria. *Current. Microbiology*. **59**:212–220 **Impact factor 1.423**
20. Ali, B., Sabri, A.N. and Hasnain, S. 2010. Rizobacterial potential to alter auxin content and growth of *Vigna radiata* (L.). *World Journal of Microbiology and Biotechnology*, **26**: 1379-1384. DOI **10.1007/s1274-010-0310-1** **Impact factor 1.779**
21. Liaqat, I, Bachmann, R.T., Sabri, A.N. and Edyvean, R.G.J.,2010. Isolate-Specific Effects of Patulin, Penicillic Acid and EDTA on Biofilm Formation and Growth of Dental Unit Water Line Biofilm Isolates. *Current Microbiology*, **61(2)**:148-156.DOI **10.1007/s00284-010-9591-8**. **Impact factor 1.423**
22. Hussain N., Jaffery G., Hasnain S. and Sabri, A.N., 2010. Angiotensin-converting enzyme gene I/D polymorphism in Pakistani systemic lupus erythematosus patients. *African Journal of Biotechnology*. **9(48)**: 8134-8138. **Impact factor 0.573**
23. Hussain N., Jaffery G., Hasnain S. and Sabri, A.N., 2011.HLA association in SLE patients from Lahore-Pakistan. *Bosnain Journal of Basic Medical Sciences*.**11(1)**: 20- 26. **Impact factor 0.443**
24. Waheed, A., and Sabri, A.N, 2011. Alleviation of salt stress by *Halomonas* sp. and osmolytes in *Zea mays*. *African Journal of Biotechnology*. **10(77)** : 17778-17788 **Impact factor 0.573**
25. Waheed, A., and Sabri, A.N, 2011. Osmoadaptation and plant growth promotion by salt tolerant bacteria under salt stress. *African Journal of Microbiology Research*. **5(21)**: 3546-3554. **Impact factor 0.539**.
26. Waheed, A., and Sabri, A.N, 2012. Biofilm formation in moderately halophilic bacteria is influenced by varying salinity levels. *Journal of Basic Microbiology*. **52(5)**: 566 -572. DOI **10.1002/jobm.201100253**. **Impact factor 1.823**
27. Waheed, A., and Sabri, A.N, 2012. Bacterial exopolysaccharide and biofilm formation stimulate chickpea growth and soil aggregation under salt stress. *Brazilian Journal of Microbiology*. **43(3)**: 1183-1191. **Impact factor 0.592**
28. Abbas, Z., Ali B., and Sabri, A.N., 2012. Antimicrobial activity of biocides against different microorganisms isolated from biodeteriorated paints. *Pakistan Journal of Zoology*. **44(2)**:**576-579** **Impact factor 0.404 (Short communication)**.
29. Waheed, A., and Sabri, A.N, 2013.Osmolyte accumulation in moderately halophilic bacteria improves salt tolerance of chick pea. *Pakistan Journal of Botany*. **45(3)**:**1011-1016** **Impact factor 0.822**
30. Wadood, Z and Sabri, A.N., 2013. Screening, characterization and biofilm formation of nickel resistant bacteria isolated from indigenous environment. *Polish Journal of Microbiology*. **62(4)**.411- 418. **Impact factor. 0.697**
31. Athar M.A., Akbar, A., Khan, Y.H., Ali,I., Mehmood, U., Sabri,A.N., Hasnain,S., 2014. Characterization of Hydrocarbon degrading bacteria isolated from Hydrocarbon contaminated soils. *Journal of Pure and Applied microbiology*. **8(6)**: 4509-4516 **Impact factor. 0.073**

32. Saleem. H.G.M, Usman Aftab, U, Imran Sajid. I, Zaigham Abbas. Z, Sabri, A.N. 2015. Effect of crude extracts of selected actinomycetes on biofilm formation of *A. schindleri*, *M. aci* and *B. cereus* . *Journal of Basic Microbiology*. 55: 645-651 . **Impact factor. 0.1.823**
33. Wadood , Z.H., Rajasekar ,A., Ting Y-P., Sabri, A.N.,2015. Role of *Bacillus subtilis* and *Pseudomonas aeruginosa* on corrosion behaviour of stainless steel. *Arabian Journal for Science and Engineering* 40(7): 1825-1836.
34. Faiz Raza, Anjum Sabre, Abdul Rehman and Shahida Hasnain 2016. Characterization of thermophilic alkaline lipase produced by *Staphylococcus aureus* suitable for leather and detergent industries. Iranian journal of science and technology. transaction a, science · **In press.** on line on October 2015. **Impact Factor: 0.342**
35. Saba Rehman , Shahbaz Mujtaba and Anjum Nasim Sabri. 2016. Impact of Plant Extracts and Antibiotics on Biofilm Formation of Clinical Isolates from Otitis Media. *Jundishapur Journal of Microbiology* 9(1): e29483 \_doi: [10.5812/jjm.29483](https://doi.org/10.5812/jjm.29483). **Impact factor. 0.387**
36. Sumreen Hayat and Anjum Nasim Sabri. 2016. Screening for antibiofilm and antioxidant activities of turmeric (*Curcuma longa*) extracts. *Pakistan Journal of Pharmaceutical Sciences*. Volume 29 (4): 1163-1170. **Impact factor. 0.682**
37. Raza,M.A., Kanwal ,Z., Rauf ,A., Sabri ,A.N., Riaz, S., and Naseem, S., 2016 . Size and Shape Dependent Antibacterial Studies of Silver Nanoparticles Synthesized by Wet Chemical Routes. *Nanomaterials*. Doi: 10.3390/. **Impact factor. 2.076.**
38. Hafiz Ghulam Murtaza Saleem, Christine Ann Seers, Anjum Nasim Sabri and Eric Charles Reynolds.2016. Dental plaque bacteria with reduced susceptibility to chlorhexidine are multidrug resistant. *BMC Microbiology* 16:214 ; DOI 10.1186/s12866-016-0833-1 **Impact factor. 2.581**

**CONFERENCE, SYMPOSIUM ,SEMINARS, WORKSHOP, EXHIBITIONS AND COMPETITION  
ATTENDED AND PRESENTATION OF RESEARCH PAPERS**

1. All Pakistan Science Conference, Khanuspur, Pakistan May 16-21, 1992. Presented paper entitled Identification of hybrid plasmid capable of reverting spore forming ability of *Bacillus subtilis divIVA* mutant strain.
2. Second International Symposium on Genetic Engineering and Biotechnology on Biotechnology for Environment and Agriculture. Presented paper entitled; Lead resistant bacteria from industrial effluents and their effects on the *Triticum aestivum* seedling growth under lead stresses, Karachi, January 6-9, 1993.
3. "Biotechnology for Sustaniable Environment" December, Faisalabad, 1993. Presented paper entitled: Some growth and genetic characteristics of chromium resistant *Bacillus subtilis* from polluted waters.
4. 2nd All Pakistan Science Conference, Lahore, December, 1993. Presented paper entitled: Growth Characteristics of Mercury resistant Pseudomonads from Industrial effluents and some factors influencing conjugal transfer of a plamid.
5. 14th. Congress of Zoology, Karachi University, Karachi. Presented paper entitled: Amplification of *divIVA*<sup>+</sup> gene of *Bacillus subtilis* and its effects on Spo phenotype.
6. Fifth National Conference of Plant Scientists, NARC, Islamabad, 28-30, 1995. Presented paper entitled :Curing of plasmids conferring resistance to lead in bacteria and effects on inoculation on plasmid free and parental strains on the growth of *Triticum aestivum* under lead stress
7. 15 th Congress of Zoology, NARC, Islamabad, 1995. Presented paper entitled ; Curing of zinc resistant plasmid from Gram-negative bacteria and their effects on growth of *Triticum aestivum* under zinc stress.
8. Fourth International Symposium-Workshop on Applications of Molecular Biological Research in Agriculture, Health and Environment, CEMB, Lahore, April, 9-11, 1995
9. 16 th Congress of Zoology, Islamabad, Quaid-e-Azam University, 13-15 April, 1996. . Presented paper entitled :Plasmid encoded resistance in bacteria and conjugal transfer of mercury resistant plasmid
10. Inaugral International conference on Genetics, Islamabad, Pakistan. November 26-28 1996.
11. 17th Congress of Zoology Karachi, University of Karachi, April 5-7, 1997. Presented paper entitled :Analysis of some cell wall constituents of vegetative cells and spores of *divIVA*<sup>+</sup> and *divIVA*<sup>-</sup> strains of *Bacillus subtilis*.
12. Fourth meeting of Tissue Culture..Bara gali 15-19 June, 1997 organized by University of Peshawer. Presented paper entitled ; Growth effect of *Triticum aestivum* seedlings under NaCl stress after inoculating with plasmid bearing and plasmid-free bacterial strains

13. First National Symposium on " Biotechnology for Sustainable Development ". Govt College Lahore. Nov 24-25, 1997. Organized by Govt College Lahore and Biotechnology Society of Pakistan. Presented paper entitled: Involvement of plasmids associated with chromium resistant *Pseudomonas* strains in stimulation of *Triticum aestivum* seedlings grown under Cr-stresses..
14. 18th Congress of Zoology , University of Punjab, Q.A.Campus, Lahore., April 20-22, 1998. Presented paper entitled :Plasmid associated temperature and pH dependent detoxification ability of mercury resistant bacteria
15. Sixth, National Conference of Plant Scientists, University of Peshawar, Peshawar, October, 20-22, 1998.
16. 19th Congress of Zoology , NARC, Islamabad, April 19-21, 1999. Presented paper entitled Spore germination analysis of *Bacillus subtilis divIVA* mutant strain in AGFK system.
17. Seventh Conference of Botany S12-14 Nov, Botany Department, PU, Lahore, 2000. Presented paper entitled ; Effect of varying temperature on growth, morphology and soluble protein content of *divI* and *divII* mutant strains of *Bacillus subtilis*.
18. First National Conference of Biology, 28-30 March, 2002 , Biological Society of Pakistan, organized by Biology Department , Government College Lahore.
19. 7th International conference of Pakistan Society for Biochemistry and Molecular Biology. Trends in Biochemistry and Molecular Biology 2-5 April, Institute of Biochemistry and Biotechnology, University Of The Punjab, Lahore. 2003.
20. Act as a **Mentor** in exhibition of research project poster presentation (Bacteriocin production by bacteria) , in Divisional Science Olympiad, organized by the Ministry of Education and Science Education (Punjab) in collaboration with intel-corporation Pvt. Ltd. In October 2004.
21. Act as a **Mentor and judge** in exhibition of research project poster presentation , in Divisional Science Olympiad, organized by the Ministry of Education and Science Education (Punjab) in collaboration with intel-corporation Pvt. Ltd. In October 2005
22. Participated in the Bioforum on March 11-12, 2006 at National Centre of Excellence in Molecular Biology, by displaying the Microbiological Products (Biofertilizer) prepared in the Microbiology and Molecular Genetics Lab, University of the Punjab, Lahore.
23. Participated in International Symposium on applications of Plant Sciences in emerging scenerio 20-22 March 2006 .Department of Botany, GC University Faisalabad, Pakistan .and HEC. Poster presentation "Isolation and Characterization of Biofilm bacteria from polluted environment "
24. Attended 26<sup>th</sup> Pakistan Congress of Zoology (International) , Department of Zoology, University of the Punjab, Lahore, April 4-6, 2006.and presentation of two research papers by students I) Isolation and Characterization of extracellular polymeric substances (EPS) producing biofilm bacteria from domestic / industrial waste water ii) . Effect of NaCl on the growth and proline content of salt tolerant bacteria and plant .
25. Participated in National Symposium on Biotechnology for economic prosperity, July 24-26, 2006. Green Retreat Hotel, NathiaGali, organized by National Commission on biotechnology . poster presentation (Isolation and Characterization of bacteria from waste water Biofilms)
26. 2Participated in 1<sup>st</sup> National Conference on cultural and biological resources ofPakistan, 23-25 August 2006, Baragali Summer Camp, University of Peshawar organized by Hazara University , Manshera, Pakistan. Two oral presentations from my students I) Isolation and Characterization of Biofilm bacteria from sewerage and domestic plus industrial waste water Biofilms. ii) Epifluorescence microscopy and Effect of Biocides on Bacteria from Dental Unit Water Lines (DUWL) Biofilms.
30. Work shop attended on self assessment Manual, Organised by Dr. Niaz, Director Quality Enhancement cell, University of the Punjab, Lahore. 18-12-2006.
31. Participated in the HEC-BC Workshop on "Logframe and Proposal Writing" at Awari Tower Lahore, on 27 May, 2006.
32. Work shop attended on self assessment Manual, Organised by Dr. Niaz, Director Quality Enhancement cell, University of the Punjab, Lahore. 18-12-2006..
33. Act as as **Resource person and Judge** in exhibition of research project poster presentation , in Divisional /provincial Science Olympiad, organized by the Ministry of Education and Science Education (Punjab) in collaboration with intel-corporation Pvt. Ltd. In September, 2005-May 2007. and delivered a lecture on Research methodologies (18-9-2006) judge (18 Divisional level –23 Provincial level..) 2006
34. Work Shop attended on "Innovation in Assesment" . BY Dr. Zarrin Seema Siddique from The education Centre , University of Western Australia. Organised by Dr. Niaz, Director Quality Enhancement cell, University of the Punjab, Lahore. 15-1-2007.

35. Participated in International Symposium on Microbial Technologies for sustainable Agriculture Exploring the hidden potentials of microbes” Organized by National Institute for Biotechnology and genetic Engineering (NIBGE), March 12-16, 2007. Three Poster presentation in the symposium “Effect of NaCl on the growth and proline content of salt tolerant bacteria and plant (*Zea mays*)” ii Isolation and characterization of biofilm bacteria from domestic plus industrial waste water. iii “Evaluation of Biocides against Dental Unit Water Line (DUWL) Tubings Biofilm Bacteria”
36. Participated in Sixth International Biennial conference of Pakistan Society for Microbiology. At Quaid-e-Azam University, Islamabad, March 18-21, 2007. Two Poster presentation in the symposium by research students “Effect of NaCl on the growth and proline content of salt tolerant bacteria and plant (*Lens esculenta*)” ii. Biocides against Dental unit waterlines tubings biofilm bacteria
37. Participated Ist symposium of Microbiology and Molecular Genetics on genomics, proteomics, metabolomics: Recent Trends in Biotechnology 22-23<sup>rd</sup> October, 2007. Organized by Microbiology and Molecular Genetics Department, University of the Punjab. Three poster i) Epifluorescence microscopy and effect of biocides on bacteria from dental unit water lines (DUWL) biofilms. ii) Effect of aqueous extract from Neem (*Azadirachta indica*) on biofilm formation and surface adhesion by *Pseudomonas aeruginosa* strain, iii) Isolation, purification and characterization of lipase from indigenous bacterial isolates. 4 oral presentations of students. i) Impact of salt tolerant praline production strains on the growth stimulation of *lens esculenta* under soil salinity ii) Screening for A1-signalling in bacteria from marine, drinking water and dental settings iii) EPS production potential of Bacterial isolates from sewerage biofilms iv) Contribution of genes mutation in autosomal nonsyndromic moderate to severe hearing loss
38. Participated in the Bioforum on March, 2008, at National Centre of Excellence in Molecular Biology, by displaying the Microbiological prepared in the Microbiology and Molecular Genetics Lab, University of the Punjab, Lahore. And one presentation Title of Presentation: Department of Microbiology and Molecular Genetics: Indigenous Biotechnology Development.
39. Attended: Seminar on Waste Disposal "Laboratory waste Management" 1<sup>st</sup> February 2008. Organized by Microbiology and Molecular Genetics Department, University of the Punjab in collaboration with Mr. Junaid Habib Ullah Shalimar Hospital Lahore,
40. Acted as a Resource person and Judge in Divisional /provincial Science Olympiad, organized by the Ministry of Education and Science Education (Punjab) in collaboration with intel-corporation Pvt. Ltd. At Children Library complex. (1-3 December, 2008)
41. Attended a Seminar on “Pak-Afghan Relations: Past, Present and Future” by former ambassador Javid Hussain, 08 July, 2008. organized by University of the Punjab Lahore.
42. Attended a seminar on “Changing the cotton Landscape in Pakistan. Organized by APTMA, at Avari Hotel Lahore 21 October, 2008.
43. Attended a workshop on National capacity self assessment workshop, organized by associates in development (Pvt).Ltd. under UNDP project. at defense club, Lahore. 14-15 July, 2008.
44. Attended: Seminar on “Malaria” November, 24 2008. Organized by Institute of Biochemistry and Biotechnology, University of the Punjab.
45. Participated in Intervarsity Environmental painting and poster competition, organized by Environmental Protection Society, GCU, Lahore. Held on 26 March, 2009.
46. Participated in 5<sup>th</sup> International Symposium on biotechnology (ISB-2009) 4<sup>th</sup> to 7<sup>th</sup> Oct, 2009. Institute of Biotechnology and Genetic Engineering, University of Sindh, Jamshoro, Pakistan. Poster presentation entitled “Effect of Neem (*Azadirachta indica*) on cell surface adhesion and biofilm formation of *Pseudomonas aeruginosa* and student Noor-ul saba was Awarded 3<sup>rd</sup> prize in poster presentation.
47. Presented one oral paper “Effect of different synthetic and naturally occurring biocides on bacteria isolated from dental unit water: their biofilm forming ability” and one poster paper. “Effect of chromium on biofilm formation: bacterial biofilms in association with cyanobacterial strain” in III International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2009), Lisbon, Portugal, 2-4 December, 2009.
48. Convenor, Organizing Committee of the symposium on “Current Agro Biotechnology and Transgenic Crops” held in Pearl Continental Hotel, Lahore on June 21, 2010, organized by Department of Microbiology & Molecular Genetics. Six Poster presentations of students.
49. Participated and presented lecture entitled “Research work at Department of Microbiology and Molecular Genetics Department” in National Biotechnology Exhibition and Seminar 2010 held in Institute of Biochemistry & Biotechnology, University of Veterinary and Animal Sciences, Lahore on October 20-21, 2010.



50. Participated and attended a one day interactive workshop ,entitled “Managing human resources in universities, Governance and Management series. Organized by HRDC, IAS University of the Punjab on 12 January, 2011.
51. Attended Workshop on “Biosafety” with collaboration with Sure Bio-Diagnostics in Department of Microbiology and Molecular Genetics, March 4, 2011
52. Attended, seminar on “Nanotechnology” by Dr Patrice Marche (Inserm, France) in Department of Microbiology and Molecular Genetics, March 7,2011
53. Attended: Seminar on “Organizational Intelligence” held in the Al-Raazi Hall, Punjab University Centre for Undergraduate Studies ,13 June, 2011.
54. Attended: Two Days workshop “Case Based Teaching” organized by Higher Education Commission, Pakistan at HEC Regional Center Lahore, on 13-14 July, 2011.
55. Participated and presented lecture entitled “Effect of Chromium on Biofilm Formation: Bacterial Biofilms in Association of Cyanobacterial Strain” in The 6<sup>th</sup> Asian Pacific Phycological Forum ”Algae , The Future Resources” organized by Society of Phycology October 9-14, 2011, Yeosu, Korea.
56. Attended a Seminar entitled “Biotechnological aspects of cyanobacteria” by Prof .Dr Shahida Hasnain. April 05, 2012. Organized by Hazara University, KPK.
57. Attended a seminar on Balochistan-problems and solutions. 17<sup>th</sup> April 2012. Arranged by Academic Staff association. ” held in the Al-Raazi Hall, Punjab University Centre for Undergraduate Studies.
58. Attended a Seminar entitled“ on Thalassemia” organized by Sundus foundation, May 17, 2012. Governor House Lahore.
59. Attended one day work shop on CMS training for faculty, 07 June, 2012. Organized by MMG department, University of the Punjab Lahore.
60. Attended and participated in Turnitin Academy Live: Developing critical skills with peer Mark. A one-hour online class on 09 October, 2012.
61. Attended and participated in Turnitin Academy Live: offerening meaningful feedback with grade Mark comments. A one-hour online class on 16 October, 2012.
62. Attended and participated in Turnitin Academy Live: Faster easier grading with grade mark rubrics. A one-hour online class on 23 October, 2012.
63. Attended and participated in Turnitin Academy Live:grading with common core state standards aligned rubrics. A one-hour online class on 30 October, 2012.
64. Attended and participated in Turnitin Academy Live: Developing critical skills with peer Mark. A one-hour online class on 09 October, 2012.
65. Attended and participated in Turnitin Academy Live: Formative assessment with turnitin. A one-hour online class on 06 November, 2012.
66. Attended one day discussion by Bioresource Group Organized by MMG department, University of the Punjab Lahore.11 october, 2012
67. Attended one day seminar on “Genomic approaches in dissecting soyabean resistance to SDS. Organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 23 November 2012.
68. Attended and participated in 3<sup>rd</sup> International symposium on “biomedical materials: recent Advances and challenges.” Jointly Organized by CIIT Comsat Lahore, de’montmorency college of dentistry and KEMU . 18-20 December,2012
69. Dr Anjum Nasim Sabri participated in “10<sup>th</sup> Annual conference on infectious diseases” organized by Shaukat Khanum Memorial Cancer Hospital and research Centre, Lahore. 22-23 Feburary,2013.Poster presentation by student
70. Dr Anjum Nasim Sabri attended one day workshop on “Fourier transform infrared spectroscopy: organized by CITT, Comsat, Lahore.5<sup>th</sup> September, 2013.
71. Attended and act as a judge in 3<sup>rd</sup> invention to innovation submit, 2014.organized by ORIC Punjab University, PSF and IRP in Al Razi hall, Undergraduate studies, University of the Punjab.
72. Attended and participated in International conference on innovative biological and public health research organized by Department of Zoology, GCU. May 06-08, 2014. Two posters and oral presentation by research students.
73. Attended and Chaired a session in International conference on Stress Biology and Biotechnology :Challanges and management. 21-23 May 2014. Organized by Institute of Agricultural sciences. University of the Punjab.
74. Attended International conference of Plant Sciences. Organized by Department of Botany, GCU. 22-24 September, 2014.

75. Attended and chaired one session in Molecular Pathology Conference. Organized by PAP/ RCPATH/AMP at PC Lahore. 24-26<sup>th</sup> November 2014.
76. Attended and Chair a session in 5<sup>th</sup> International /10<sup>th</sup> National conference of Pakistan Phytopathological society : Crop protection for sustainable agriculture 23-25, November, 2015 . Organized by Institute of Agricultural sciences. University of the Punjab.
77. Attended and participated in Turnitin 3rd Annual Plagiarism Education Week April 20-24, 2015. Changing Culture to Promote Integrity: Why Progress Is Possible. One hour online class on April 20, 2015. David Callahan. , author of *The Cheating Culture: Why More Americans Are Doing Wrong to Get Ahead*
78. Attended and participated in Turnitin 3rd Annual Plagiarism Education Week April 20-24, 2015. A Student-Centered Culture: Promoting Integrity One Conversation at a Time. One hour online class on April 20, 2015 with Michael Goodwin, Academic Integrity Coordinator at Kennesaw State University.
79. Attended and participated in Turnitin 3rd Annual Plagiarism Education Week April 20-24, 2015. Narcissism and Extrinsic Values: Understanding Student Trends that Impact Plagiarism and Cheating One hour online class on April 21, 2015. with Jean Twenge, author of *The Narcissism Epidemic: Living in the Age of Entitlement*.
80. Attended and participated in Turnitin 3rd Annual Plagiarism Education Week April 20-24, 2015. Improvisation and Plagiarism: Fostering a Culture of Creativity. One hour online class on April 22, 2015 with Teresa Fishman, Director of the International Center for Academic Integrity (ICAI)
81. Attended and participated in Turnitin 3rd Annual Plagiarism Education Week April 20-24, 2015. The Cultural Implications of Contract Cheating. One hour online class on April 22, 2015 Dr. Tricia Bertram Gallant . Director of Academic Integrity, UC San Diego
82. Attended and participated in Turnitin 3rd Annual Plagiarism Education Week April 20-24, 2015. Decisions on Deadline: A 21st Century Gaming Approach to Teach Plagiarism and Ethics. One hour online class on April 23, 2015 with Samantha Grant and Brittney Shepherd, co-producers of *A Fragile Trust*.
83. Attended and participated in Turnitin 3rd Annual Plagiarism Education Week April 20-24, 2015. Create/Lead/Culture: Integrity Strategies for Students. One hour online class on April 24, 2015 with Tricia Bertram Gallant, Director of Academic Integrity at UC San Diego.
84. Attended and participated 2<sup>nd</sup> annual scientific symposium of Mohtrma Benazir Bhutto Shaheed Medical college, Mirpur AJ &K 17-19 April, 2015.
85. Attended a seminar on world quality day. Organized by a University of the Punjab and Virtual University of Pakistan. At Al Razi Hall . April 05, 2016
86. Attended a workshop on Academic writing : Different forms of research designs and steps in planning for research grant applications. Organized by centre for learning and technology, FCC in collaboration with DAAD. 22 April, 2016.
87. Attended National workshop on Organic Food and health :Avenues of innovation and Entrepreneurship. Organized by Pakistan Council for Science and Technology. At UMT, Lahore. August 29, 2016
88. Attended one day seminar on world aids day organized by Punjab aids control program, Government of Punjab.

### **INVITED SPEAKER.**

1. Delivered two lectures entitled i) Advances in Bacteria ii) Staining techniques (Practical ) In Six days training course in Botany for in service teachers .September 24-29, 2001 at UGC regional centre , Lahore.
2. Delivered one lecture on Conjugation and transformation and Demonstrated two labs i) SDS Page electrophoresis. ii) Agarose Gel electrophoresis for total cell lysate (Plasmid DNA). IN HEC workshop on Microbiology & Genetical Techniques for degree Colleges Teachers held on June 7-12, 2004 in the Department of Microbiology and Molecular Genetics University of the Punjab , Lahore.
3. Delivered a lecture on “Research methodologies” (18-9-2006) in exhibition of research project poster presentation , in Divisional /provincial Science Olympiad, organized by the Ministry of Education and Science Education (Punjab) in collaboration with intel-corporation Pvt. Ltd.
4. Invited Speaker and delivered a lecture on “Research methodologies” (27 September, 2008). in exhibition of research project poster presentation , in Divisional /provincial Science Olympiad, organized by the Ministry of Education and Science Education (Punjab) in collaboration with intel-corporation Pvt. Ltd.

5. Participated as a invited speaker in the symposium “Modern trends and approaches in Microbiology” organized by the Institute of pure and applied Biology, Bahauddin Zakariya University, Multan , Pakistan held on 21 January , 2009. research paper presentation entitled “ Effect of Biocides on Bacterial isolates from Biofilms of Dental Unit Water Lines”
6. Invited Speaker in one day symposium “Modern Biotechnology: A resource for sustainable development, 04 July, 2009. Organized by Department of Microbiology and Molecular Genetics in collaboration with Monsanto At PC Hotel. presentation of research paper is “ on Effect of synthetic biocides and plant extracts on Bacterial isolates from Biofilms of Dental Unit Water”.
7. Delivered a lecture on “Research methodologies” August ,2009). in exhibition of research project poster presentation , in Divisional /provincial Science Olympiad, organized by the Ministry of Education and Science Education (Punjab) in collaboration with intel-corporation Pvt. Ltd.
8. Acted as a Resource person in workshop organized by the Science Education (Punjab) in collaboration with intel-corporation Pvt. Ltd. At Science Education Centre. 9 Dec, 2009. delivered lecture on “Mentoring student research :devising methodology
9. Delivered a lecture on “Research methodologies” November, 2010). in exhibition of research project poster presentation , in Divisional /provincial Science Olympiad, organized by the Ministry of Education and Science Education (Punjab) in collaboration with intel-corporation Pvt. Ltd.
10. Participated as invited speaker in “ninth international biennial conference of Pakistan Society for Microbiology. Organized by PSM and Karachi University. Pakistan. 28-31 January, 2013.
11. Invited speaker, delivered special lecture on “ Epidemiology and public health:multidisciplinary challenges” at Institute of social and cultural studies ( Public Health Programme) University of the Punjab, November,19, 2013.
12. Invited speaker, delivered special lecture on “Sources of public health data- donor agencies and health care programmes of Pakistan” at Institute of social and cultural studies ( Public Health Programme) University of the Punjab, November 21, 2013.
13. Invited speaker in the 1<sup>st</sup> international seminar on soil health reclamation approaches. June 11, 2014 Organized by College of earth and environmental sciences, University of the Punjab.
14. Invited speaker in the 1<sup>st</sup> international Seminar Lahore Biotech Cluster. august 18, 2014 At Armacost Science Building Forman Christian College. Lahore delivered overview of research at the Department of Microbiology and Molecular Genetics.
15. Invited speaker in the 2<sup>nd</sup> international conference on “biotechnology for sustainable development”26-28<sup>th</sup>November, 2014. Organized by institute of industrial biotechnology GCU. Lahore. delivered lecture on overview of nickel resistant biofilm forming bacteria and their capabilities of biocorrosion.
16. Invited speaker in the 2<sup>nd</sup> International Conference on Biotechnology (ICB): Challenges and Opportunities in Pakistan, February 24-25, 2016, Organized by *Faculty of Biological Sciences, University of South Asia, Lahore*. delivered lecture on biofilms: helping hands for plants to cope with salt stress.
17. Invited Speaker in one day seminar organized by Allied Health Sciences, Superior University.13 April, 2016. Delivered lecture on Dental Biofilms.