

CV OF DR. ANJUM NASIM SABRI

NAME: DR. ANJUM NASIM SABRI

FATHER'S NAME: NASIM AKHTAR SABRI

DESIGNATION : PROFESSOR / CHAIRPERSON

MICROBIOLOGY AND MOLECULAR GENETICS
DEPARTMENT, PUNJAB UNIVERSITY, LAHORE

NATIONAL ID CARD NUMBER: 35202-7833279-4

ADDRESS: 327 Shadbagh, Lahore

PHONE NO. RESIDENCE 092- 042-37602150
092-300-4132950

EDUCATIONAL QUALIFICATION

NAME OF EXAMINATION	YEAR	DIVISION	NAME OF INSTITUTION
M.Sc. (Botany)	1987-1990 (Session 1987-89)	1 st (769/1100)	Punjab University
Ph.D. Botany (Specialization Microbial and Molecular Genetics)	1997 (06.08.1997)		Punjab University

TRAINING PROGRAMMES ATTENDED

1. Bee Keeping Training Programme. Organized by Zoology Department, Punjab University , Lahore 15-17 August,1995.
2. Orientation Training Programme for new faculty 2000, Organized by HRDC, Punjab University , Lahore 2-4 October,2000.
3. Orientation Training Programme for new faculty 2002, Organized by HRDC, Punjab University , Lahore 19 February –12 March 2-4, 2002.
4. Campus management system orientation program, people soft campus solutions v9.0 recruitment and admissions Apr 9, 2009.
5. Participated in one day interactive workshop entitled “Managing human resources in universities, Governance and Management series. Organized by HRDC, IAS University of the Punjab, 12 January, 2011.

DISTINCTIONS AND AWARDS

1. Silver Medal in M.Sc. Previous (Part-I)
2. Third Prize, Biofound, promoting Innovative Talent, best presentation of research paper, in 14th Pakistan congress of Zoology held at NARC, 15-17 April, 1995.
3. Appreciation Award, for working as a Resource person in Punjab Science Olympiad, 2008-2009. In collaboration with Ministry of Education and Intel Education ,ISEF.
4. Appreciation Award, Punjab Science Education Awards, for working as a Resource person, Mentor, Master Trainer, 2008-2009.Science Education Centre. Punjab Government.

5. Appreciation Award, for working as a Resource person in Punjab Science Olympiad, 2009-2010. In collaboration with Ministry of Education and Intel Education ,ISEF.
6. Dr. Anjum Nasim Sabri awarded Quaid- e-Azam Gold Medal by Tehreek-e-Istehkam-Pakistan Council, on 28th June, 2014, at National Auditorium Lahore.

TEACHING AND RESEARCH EXPERIENCE

1. Assisted Prof. Dr. Shahida Hasnain in conducting M.Sc practical in Genetics, Cytology, Biometry and Microbiology (Oct.1991-1993).
2. Research officer, in Research Project , Molecular genetic analysis of *div* genes of *Bacillus subtilis* . NSRD/BSC (8) /PUL. July 1991-June 1994.
3. Lecturer in Botany, Botany Department , Lahore College for Women Lahore, Now Lahore College University 02 May, 1997 – 09 June, 2000.
4. Lecturer, at the disposal of Education Department, Punjab Civil Secretariat, 10 June – 31 July,2000.
5. Lecturer in Botany, Botany Department, Punjab University, Lahore. Since 01 August, 2000 - 24 June, 2004.
6. Assistant Professor, Microbiology and Molecular Genetics Department, Punjab University, Lahore. Since 25 June, 2004 - 24 July, 2004.
7. Associate Professor, Microbiology and Molecular Genetics Department, Punjab University, Lahore. Since 25 July, 2004 – 18 December, 2010.
8. Professor, Microbiology and Molecular Genetics Department, Punjab University, Lahore. Since, 19Dec,2010-todate
9. Chairperson, Microbiology and Molecular Genetics Department, Punjab University, Lahore. Since 18 May, 2011-todate.

RESEARCH WORK (1988-May 1997)

M. Sc. Research Work: Characterization of metal resistant bacteria obtained from polluted waters (1989-1990).

Ph.D. Research work: Some molecular Genetic analysis of *div* genes of *Bacillus subtilis* . (1992 -1997; thesis submitted 1996)

Research Officer: Molecular genetic analysis of *div* genes of *Bacillus subtilis* . NSRD/BSC(8) /PUL. July 1991-June 1994.

Post-Doc work unpaid (1996 – May 1997): Research in the field of environmental bacteriology /plant microbe interaction and published two research papers in journals of international repute.

1. 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.
2. 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.

SUBJECTS TAUGHT:

LAHORE COLLEGE FOR WOMEN UNIVERSITY, LAHORE

Postgraduate : Environmental Bacteriology , Fundamentals of Microbiology.

Graduate: Plant Physiology and Plant Ecology.

BOTANY DEPARTMENT, PUNJAB UNIVERSITY, LAHORE

Postgraduate: Environmental Bacteriology, Microbiology, Phycology, Bacteriology, Bryology.

Undergraduate : Essentials of Microbiology, Biostatistics, Principles of Genetics, Microbial and Molecular Genetics, Gene cloning, Environmental Bacteriology.

M.Phil : Biodeterioration and Biodegradation.

M.Sc (Hons): Environmental Bacteriology.

Ph.D: Environmental Bacteriology, Man microbe and environment, Islam and Genetics.

INSTITUTE OF ENVIRONMENTAL SCIENCES.

Undergraduate : Biodiversity and Bioconservation (**September -December , 2002**)

MICROBIAL AND MOLECULAR GENETICS DEPARTMENT (2002-till todote)

Undergraduate : Biostatistics, Essentials of Microbiology, Microbial Diversity, Environmental Microbiology, Ethical issues in Genetics, Microbial and Molecular Genetics. Chromosomal abnormalities and Genetic counselling. Advances in Microscopy.

Postgraduate :Biostatistics, Microbial Diversity, Ethical issues in Genetics, Microbial and Molecular Genetics.

MS/ M Phil / MS leading to Ph.D: Man Microbe and Environment, Epidemiology, Public Health & Its Control, Genome analysis, Waste water treatment.

Ph.D: Environmental Bacteriology, Epidemiology ,Public health and its Control, Nanotechnology in Biological systems, Problem Solving Cell Biology, Problem Solving Molecular Biology, Islam and Genetics, Waste water treatment.

ACADEMIC SYLLABUS FRAMMED

1. Member, Involved in framing syllabi for B.Sc honors & M.Sc degree in Botany Department.
2. Member , National curriculum Revision committee, in the subject of Microbiology , Higher Education commission , Islamabad, January –June 2006, 2008, 2012
3. Member committee, framing/ revision of syllabi for B.Sc honors, M.Sc and M.S degree in Microbiology and Molecular Genetics Department Since 2002.
4. Convener, National curriculum Revision committee, in the subject of Molecular Biology , Higher Education commission , Islamabad, Oct, 2015.

AUTHOR OF PART OF TEXT BOOK OF BIOLOGY

Author of one chapter in biology book XI , Punjab text book board , Lahore. Published in September, 2002. Kingdom Prokaryotae (Monera) . pp-83-98.Reprinted every year till 2010.

CHAPTER IN INTERNATIONAL BOOK

1.Liaqat, I., and Sabri, A.N., 2010. Multiple approaches to control dental unit water line biofilm contamination. Current Research, Technology and Education Topics in Applied Microbiology and Microbial Biotechnology. MICROBIOLOGY BOOK SERIES - Number 2. Published by FORMATEX RESEARCH CENTER - C/ Zurbaran 1, 2nd Floor, Office 1, 06002 Badajoz, Spain

2. Anjum Nasim Sabri, Sabeen Sabri and Sikander Sultan. 2012. Metallurgical microscopy of Bacterial biofilm representing Cr^{+6} conversion into Cr^{+3} by *Acinetobacter calcoaceticus*, *Staphylococcus aureus* and *Oscillatoria strain*. IN: "Current microscopy contributions to advances in science and technology" (the "Publication") published by FORMATEX RESEARCH CENTER, Zurbaran, 1, 2^a, Office 1, 06002 Badajoz, Spain

HEC APPROVED SUPERVISOR IN BIOLOGICAL SCIENCES

<http://www.hec.gov.pk/InsideHEC/Divisions/HRD/ApprovedPhDSupervisors/Pages/ListofSupervisor.aspx>

FIELD OF SPECIALIZATION

1. Microbial and Molecular Genetics
2. Environmental Bacteriology,
3. Bacterial biodiversity
4. Plant-microbe interaction under metal stress conditions.
5. Dental , polluted and non polluted Biofilm research
6. Effect of medicinal plants on biofilm formation.
7. Biocorrision by biofilms.

M.Sc / BS THESIS GUIDED (40 completed, 02 Work under progress)

LAHORE COLLEGE FOR WOMEN UNIVERSITY, LAHORE. (02)

1. **Abida Iqbal.**Variation in morphological, physiological and biochemical attributes of bacterial strains from polluted water, soil and rhizoplane of plants. (Session 1998-2000).

2. **Ambreen Ahmed.** Effect of temperature on growth , morphology ,staining behaviour and soluble protein contents of *div* mutants of *Bacillus subtilis*. (Session 1998-2000).

BOTANY DEPARTMENT , PUNJAB UNIVERSITY, LAHORE (05)

3. **Shakila Yousaf. (2001).** Bacterial biodiversity in biofilms from various sources in Gulshan Iqbal Park, Lahore.
4. **Shaneela Javaid: (2002)** Isolation and Characterization of *Pseudomonas* strain from different biofilms from polluted and unpolluted environments: Role in plant growth improvement and soil aggregation.
5. **Shumaila Sadaf: (2003)** Seasonal Isolation of different members of Enteriobacteriaceae from different biofilms collected from polluted as well as from unpolluted environments.
6. **Qurat-ul-ain Akam: (2003).** Isolation and characterization of pesticide resistant bacteria from wheat and potato fields
7. **Saira Anwar (2004) :** Effect of temperature and pH on the cell morphology of protein profile of sporulation defective strains of *Bacillus* .

MICROBIAL AND MOLECULAR GENETICS DEPARTMENT, PUNJAB UNIVERSITY, LAHORE (M.Sc + BS Students)

M.Sc STUDENTS

8. **Affia Iqbal (2009- 2010).** Effect of iron on biofilm forming ability of bacteria.
9. **Azra Sana (2009- 2010).** Effect of copper on biofilm forming ability of bacteria
10. **Mehnaz Akram. (2009- 2010).** Effect of different antibiotics and orozell on biofilm bacteria from dental plaques
11. **Saima Nadeem (2010-2011).** Effect of preservatives on the growth and sporulation of *Bacillus subtilis*.
12. **Amna Aslam (2010-2011).** Effect of preservatives on the growth and sporulation of *Bacillus cerus*
13. **Rabia Sultan (Session 2011-2013).** Effect of crude extract of *Acacia Arabica* on biofilm formation ability of bacteria isolated from dental unit water lines.
14. **Saira Tabbsum (Session 2012-2014).** Biofilm formation capabilities of pectin degrading *Pseudomonas sp* isolated from partially degraded leaves and paper.
15. **Maryum Ilyas (Session 2012-2014).** Biofilm formation in multiple heavy metal resistant *Chryseobacterium and Bacillus sp.*
16. **Shaheen Fatima (Session 2012-2014).** Co-supervisor. Effect of *Klebsiella and coronobacter* on the seedling growth of wheat under nickel stress.
17. **Hadia Mukhtar (Session 2013- 2015).** Biofilm formation of bacteria isolated from waste water biotic and abiotic surfaces.

BS STUDENTS

18. **Rabia Nayyer (Session 2002-2006):** Determination of proline under NaCl stress bacteria isolated from biofilms.
19. **Sana Pervaiz (Session 2003-2007):** Study of bacterial diversity from polluted and non – polluted environments.
20. **Noor-saba Ijaz (Session 2003-2007):** Effect of Neem plant extract on dental biofilm
21. **Fareeha Sumbal (Session 2004-2008):** Effects of antimicrobial agents on biofilm formation and polysaccharides of bacteria isolated from biofilms
22. **Faiz Ahmed (Session 2004-2008):** : Lipase production from local isolates.
23. **Maryam Zareen. (Session 2005-2009).** Effect of antibiotics on adhesion and detachment of cells of *Bacillus* sps and *Klebsiella sp.* biofilms
24. **Sumaira Zahoor (Session 2005-2009).** Effect of antibiotics on adhesion and detachment of cells of *Pseudomonas aeruginosa* and *Achromobacter sp.*, biofilms agents on biofilm formation.
25. **Amna Khan (Session 2005-2009)** Effect of environmental factors and starvation on biofilm formation and EPS production
26. **Sinha Liaqat (Session 2006-2010).** Time course dependent studies of biofilm formation assay in gram positive bacteria
27. **Sara Farooqi (Session 2006-2010).** Time course dependent studies of biofilm formation assay in Gram negative bacteria
28. **Saira Aftab (Session 2007-2011).** Effect of manganese and copper on EPs production and biofilm formation of *divIV* and *divV* mutants of *Bacillus subtilis*.

29. **Huma Naz (Session 2007-2011).** Effect of manganese and copper on EPs production and biofilm formation *div* mutants of *Bacillus subtilis*.
30. **Mehak Toor (Session 2007-2011).** Effect of streptomycin on biofilm formation of gram negative bacteria.
31. **Werda Zia (Session 2008-2012).** Antimicrobial activities of *Ocimum bacilicum* against *Phobacterium* isolated from Indian Mackerel.
32. **Maryam Mazhar (Session 2008-2012).** Antimicrobial activities of *Euphorbia* and *Eucalyptus* on EPS production of biofilm forming bacteria.
33. **Maryam Fakhar (Session 2009-2013).** Effect of nickel on adherence, hydrophobicity, aggregation and biofilm formation of salt tolerant bacterial strains.
34. **Iqra Jabbar (Session 2009-2013).** Effect of nickel on adherence, hydrophobicity, aggregation and biofilm formation of salt tolerant bacterial strains.
35. **Tanzeela Khalil (Session 2009-2013). Co- Supervisor.** Effect of NaOH on the biofilm formation of bacterial strains isolated from Shahtaj sugar mill.
36. **Amina Jalil (Session 2010-2014).** Biofilm formation and PGPB ability of different strains of *Enterobacter* and *Klebsiella* from soils of agricultural fields.
37. **Rimsha Shahid (Session 2010-2014).** Study of cellulose degrading properties of *Bacillus* and *Pseudomonas* sp. Isolated from partially degrading leaves and paper.
38. **Hira Naheed Khan (Session 2011-2015).** Biofilm formation capabilities of bacteria isolated from peptic ulcer under natural and synthetic antimicrobial stress.
39. **Saadia Nasir (Session 2012-2016).** Association of filamentous, non-filamentous cyanobacterial strains for biofilm formation I n batch cultures.
40. **Farwa Hanif ((Session 2012-2016).** Association of *Bacillus subtilis* wild type and *div* mutant strains with *Staphylococcus* strains for biofilm formation.

M.Phil / MS/ MSc. (Hons) THESIS GUIDED (19 completed, 01 work under progress)

BOTANY DEPARTMENT , PUNJAB UNIVERSITY, LAHORE (03 M.Phil +01 M.Sc (Hons)

1. **Ruqia Suliman: (Session 2002-2004).** Effect of bacterial inoculation , carbon source in combination with varying pHs (6,7,8) and temperature on plant growth and soil aggregation. **(M.Phil)**
2. **Rehana Saeed : (Session 2002-2004).** Effect of bacterial inoculation , and different soil compositions on plant growth and soil aggregation. **(M.Phil)**
3. **Aysha Waheed: (Session 2004 -2006).** Effect of NaCl on the proline content of salt tolerant bacteria and plants. **(M.Phil)**
4. **Sana Khalid (Session 2004-2006):** Bacterial biodiversity from different biofilms. **(M.Sc Hons)**

MICROBIAL AND MOLECULAR GENETICS DEPARTMENT, PUNJAB UNIVERSITY, LAHORE

M.Phil students

5. **Sumreen Hayat (Session 2008 -2010).** Effect of *Aloe vera* on growth and cell wall components of biofilm forming bacteria.
6. **Mahwish Akhtar (Session 2009 -2011).** Effect of *Aloe vera* and *Oscillatoria* on bioluminescence of bacteria from Indian mackerel
7. **Hafiz Ghulam Murtaza (Session 2009 -2011).** Effect of biocides on growth, cell wall components and biofilm formation of dental plaque bacteria.
8. **Sabahat Aziz (Session 2010 -2012).** Biofilm Formation and Characterization of exopolysaccharide by *Photobacterium* under cadmium Stress.
9. **Safoora Akhtar ((Session 2011-2015).** Effect of turmeric and varying physiological afctors on biofilm formation of *Bacillus subtilis* and *Staphylococcus* strains.

MS Student

10. **Sabeen Sabri (Session 2008-2010):** Effect of chromium on bacterial biofilm formation in association with cyanobacterial strain (MS)
11. **Sadia Usman (Session 2010-2011):** Lipid profiling of Bacteria from dental unit water Lines.
12. **Noor-ul Saba Ijaz (Session 2010 -2012):.** Effect of Garlic on biofilm adhesion kinetics and detachments.

13. **Ayesha Aziz (Session 2010 -2012).** Biofilm Formation and Characterization of exopolysaccharide by *Photobacterium* under cadmium Stress.
14. **Zarwa Kamran (Session 2010 -2012).** Effects of *Oceanobacillus profundus*, *Bacillus subtilis* and *Halomonas aquamarina* on the growth promotion of *Brassica campestris* and *triticum aestivum*.
15. **Nabiha Mansoor (Session 2011 -2013).** Effect of chlorohexidine on different biofilm formation assays of bacterial isolates from dental plaque.
16. **Saba (Session 2011 -2013).** Characterization and biofilm formation of bacteria from otitis media under different stress conditions.
17. **Werda Zia (2012-2014).** Effect of nickel on the biofilm formation of *Cronobacter sakazakii*.
18. **Maryum Fakhar: (2013-2015).**Effect of crude extract of *Acacia* and *Eucalyptus* on Biofilm forming abilities of bacteria from peptic ulcer.
19. **Amina Jalil (Session 2014-2016).** Comparative study of the effect of tea, coffee, tannic acid and vancomycin on biofilm formation of bacteria isolated from central venous catheters from cardiac patients.

Students in Collaboration

20. MSc student (**Saira Afzal**) from The University of Lahore (**2010- 2011**). Effect of antibiotics on biofilm formation of bioluminescent bacteria
21. **Mohd Yousaf** (2012) .From Solid state Physics, University of the Punjab Lahore. (MPhil student)
22. **Tanzeela Khalil (Session 2009-2013). Co- Supervisor.** Effect of NaOH on the biofilm formation of bacterial strains isolated from Shahtaj sugar mill. (BS student)
23. **Hafza Hussein Sheikh Mohammad. (Session 2012-2016).** *Invitro* study of biofilm forming bacteria isolated from dental plaques. Institute of Molecular biology and biotechnology . from The University of Lahore (MPhil student)

INTERNEES (For Two Months)

24. **Maleeka Zaheer (04-04-2012 – 10- 06-2012).** Worked on biofilms from Biotechnology and Bioinformatics department, UVAS, Lahore.

Ph.D GUIDANCE:

DEGREES AWARDED (06)

1. **Abdul Hamid (Co-Supervisor), 2007.** Screening of chromium resistant bacteria and cyanobacteria for detoxification potential & plant growth stimulation under chromium stresses.
2. **Anas Ahmed Khan: 2009.** A comparative study on production and efficacy of different vaccines against Avian Adenovirus (AAV) associated with Hydropericardium Syndrome
3. **Irum liaqat: 2009.** Isolation and characterization of biocide resistant bacteria from dental unit water line (DUWL) biofilms.
4. **Basharat Ali: 2009.** Plant associated auxin producing bacteria: their genetical studies and impact on plant growth.
5. **Nageen Hussain (Co-supervisor): 2012.** Mutational analysis of CTLA-4 gene and HLA association in SLE patients from Lahore-Pakistan.
6. **Rasheeda Bashir: (Co-supervisor) :2012.** Genetic study of recessive moderate to severe hearing loss in Pakistan.
7. **Ayesha Waheed : 2015.** Compatible solute analysis of salt tolerant bacteria and some crops under NaCl stress.
8. **Zeeshan Wadood: 2016.** Bacterial consortia: their impact on biofilm development and biocorrision.

Thesis Submitted (2016)

1. **Hafiz Ghulam Murtaza :** Effect of biocides on biofilm forming bacteria from dental plaque
2. **Raice Ahmed :** Isolation and Characterization of Biofilm Extracellular Polymeric Substances (EPS)

Thesis Write up Under Progress (02)

3. **Sumreen Hayat:** Biological activities of ginger and turmeric extracts: effects on antibiotics resistant biofilm forming bacteria.

4. **Sidra Tayyaba Akhtar:** Effect of some physical and chemical factors on biofilm forming bacteria from sewage water

Research Work In Progress (04)

1. **Saba** – Role of biofilm forming bacteria in transformation of arsenic.
2. **Nabiha Mansoor** –Isolation and characterization of selenium tolerant microbes with potential of producing biofilms and bioremediation of toxic selenium ions.
3. **Samman Ikram** Isolation and characterization of biofilm forming bacteria isolated from central venous catheters of cardiac patients
4. **Maryum Fakhar** Synopsis submitted
5. **Tabassum Raza** Course work

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:

1. 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 nickel 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 stress 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 plasmid. *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*⁺ 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. Iftikhar, 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*⁺ and *divIVA*⁻ 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 *Launia nudiculus* 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*⁺ and *divIVA*⁻ transformants of *Bacillus subtilis* .*Pakistan Journal of Zoology*, **26(2)**, 149-161. **Impact factor 0. 0.404**
5. Sabri, A.N., and Hasnain, S., 1994. Effect of pH on the cell morphology of *divIVA*⁺ and *divIVA*⁻ transformants of *Bacillus subtilis* .*Pakistan Journal of Zoology*, **26(4)**, 309-320. **Impact factor 0. 0.404**
6. Sabri, A.N., and Hasnain, S., 1996. Starvation effects on the cell morphology of *divIVA*⁺ and *divIVA*⁻ 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*⁺ and *divIVA*⁻ strains of *Bacillus subtilis* .*Pakistan Journal of Zoology*, **28(2)**, 145-150.

Impact factor 0. 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*⁺ and *divIVA*⁻ 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 Sustainable 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*⁺ 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*⁺ and *divIVA*⁻ 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 aeativum* 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 inter-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 26th 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 Commision on biotechnology . poster presentation (Isolation and Characterization of bacteria from waste water Biofilms)
26. **2**Participated in **1**st National Conference on cultural and biological resources ofPakistan, 23-25 August 2006, Baragali Summer Camp, University of Peshawer 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 22-23rd 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" 1st 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 Intervaristy Environmental painting and poster competition, organized by Environmental Protection Society, GCU, Lahore. Held on 26 March, 2009.
46. Participated in 5th International Symposium on biotechnology (ISB-2009) 4th to 7th 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 3rd 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 6th 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. 17th 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 3rd 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 “10th 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.5th September, 2013.

71. Attended and act as a judge in 3rd 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 :Challenges 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. 24-26th November 2014.
76. Attended and Chair a session in 5th International /10th 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 2nd 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.22April, 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 1st 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 1st 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 2nd international conference on “biotechnology for sustainable development”26-28thNovember, 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 2nd 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.

CONFERENCES ,EXHIBITIONS AND SEMINARS ORGANIZED.

1. **Member , Organizing Committee** , Seventh Conference of Botany 12-14 Nov, Botany Department, PU, Lahore, 2000. Organized two session of Poster. And Member editing and Publishing Committee.
2. **Member**, in Organizing 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. **Convener**, Ist symposium of Microbiology and Molecular Genetics on genomics, proteomics , metabolomics: Recent Trends in Biotechnology 22-23rd October, 2007. Organized by Microbiology and Molecular Genetics Department, University of the Punjab
 4. **Member**, organizing Committee in workshop Genetics on Proteomics Workshop: From Sample preparation to data analysis 24-25rd October, 2007. Organized by Microbiology and Molecular Genetics Department, University of the Punjab
 5. **Organized** Seminar on transmission electron microscopy (EFTEM) analysis. By Mr. Klaus Teufel. Nanotechnology consulting company, Germany. Jointly organized by Carl Zeiss SMT-nanotechnology systems division and Microbiology and Molecular Genetics Department, University of the Punjab.
 6. **Organized** Seminar on Microbial resistant paints , Organized by Microbiology and Molecular Genetics Department, University of the Punjab, 17th April 2008. and delivered a lecture on microbial resistant paints.
 7. **Convener**, 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.
 8. **Organized**,a series of seminar on “ Hepatitis,C- The virus, diagnosis, clinical features” by Dr Mudassir Sibtain Sheikh , National Hospital , Lahore. Organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore.
 9. **Convener**, in one day workshop on “pre conference workshop on Molecular Haematology, 9th February, 2010 Organized by Department of Microbiology and Molecular Genetics in collaboration with children Hospital, Lahore at Department of Microbiology and Molecular Genetics
 10. **Convener**, in one day symposium “Current Agrobiotechnology and Transgenic Plants”, 21 June, 2010. Organized by Department of Microbiology and Molecular Genetics in collaboration with Monsanto At PC Hotel.
 11. **Organized**, a seminar on “Conversion of Low Density Lipoprotein to the Small, Dense Pro-Atherogenic Form by Glycation with Methylglyoxal - Super-sticky ‘ultra-bad’ cholesterol.” By Naila Rabbani. Warwick Medical School, Clinical Sciences Research Institute, University of Warwick, University Hospital, Coventry CV2 2DX, U.K. Organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 04 Nov, 2011.
 12. **Organized**,a one day symposium on dengue fever “Strategy to Combat Dengue: Microbiological Approach” By Dr Shahida Hasnain. Director School of Biological Sciences. Punjab University . Lahore. Organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. On 21 September, 2011
 13. **Organized**, one day symposium on Dengue fever. By Dr. Shahla Latif, Assistant Professor Microbiology.Services Institute Of Medical Sciences. Organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. On 21 September, 2011
 14. **Organized**, a seminar on “Granulomatous Diseases Of Nose”. By Dr Shahbaz Mujtaba Ghauri. King Edward Medical University, Lahore. Organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 25 September, 2011.
 15. **Organized**, One day workshop on “Fluorescent Microscopy: Introduction and Applications”. Organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 24th September, 2011
 16. **Organized**, One day workshop on “Immunoflorescent techniques”. Organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 20 October, 2011.
 17. **Organized** “Biophysicochemical basis for technopreneurship” jointly organized by MMG and IBA, University of the Punjab, Lahore, 2-3rd April,2013.
 18. **Organized** on day Hands on training workshop on “Basic Biosafety Measures in research” in collaboration with NAYS. Pakistan 27th September, 2013.
1. Arranged poster competition on “dengue fever Awareness” organized by Dengue committee Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 19 December, 2013.
 2. Organized one day workshop “making sense from sequence” At Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 25 January 2014.
 3. Organized one day workshop “ Endnote bibliography made easy” At Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 20 February 2014.
 4. Arranged and organized a tree plantation ceremony in collaboration with forest department, Government of the Punjab at Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 14 March, 2014.

5. Organized a lecture on Role of forest on biodiversity by Dr Muhammad Akmal Rahim, Forest Conservator, Forest department, Government of the Punjab at Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 14 March, 2014.
6. Organized one day workshop "Scientific writing: guidelines, issues and solutions" At Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 27 March, 2014.
7. Organized two days workshop in collaboration with ORIC University of the Punjab on "CHNS" at At Al Razi Hall Undergraduate studies, University of the Punjab. 3-4 April, 2014.
8. Organized lecture by Prof. Dr, Shahna Urooj Kazmi on "Scientific Manuscript writing and publication" Ambassador American Society of Microbiology. At Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 14 April, 2014.
9. Organized, Work Shop on "Biosafety and risk assessment "organized by Biosafety and Bioresource Committee of Punjab University. At Al Razi Hall Undergraduate studies, University of the Punjab. 19 April, 2014.
10. Organized a lecture on "Forest Ecosystem and Biodiversity" by Dr Muhammad Akmal Rahim, Forest Conservator, in collaboration with Forest department, Government of the Punjab for students Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. of at Changa Manga Forest, 26April, 2014.
11. Organized, one day symposium on "Recent trends in molecular Therapeutic" organized Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. At Al Razi Hall Undergraduate studies, University of the Punjab. 19 August, 2014.
12. Organized, one day symposium on " Emerging issues of multidrug resistance: A threat to the globe" organized Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. At Al Razi Hall Undergraduate studies, University of the Punjab. October 02, 2014.
13. Organized one week **3rd Faculty Training Program at MMG in Collaboration with LID-HEC.** at Department of Microbiology & Molecular Genetics, University of the Punjab, Lahore, in collaboration with Learning Innovative Division HEC Pakistan, was held on November 17-21, 2014.
14. Organized, one day workshop on **Parasitology and immunological aspects** organized Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. At Al Razi Hall Undergraduate studies, University of the Punjab.13-14 February, 2015.
15. Organized, one day workshop on **Vaccinology.** Jointly organized by University of Lahore, PSM and Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. At Al Razi Hall Undergraduate studies, University of the Punjab.24 March, 2015.
16. 10th Biennial International conference of Pakistan Society of Microbiology. "**Exploring microbes for future endeavors:** In collaboration with Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore with PSM, American Society of Microbiology. 25-28 March, 2015.
17. One day workshop on **Eucaryotic cell culture techniques** organized Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. At Al Razi Hall Undergraduate studies, University of the Punjab.28 April, 2015.
18. One day workshop on **Western blotting** organized Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. At Al Razi Hall Undergraduate studies, University of the Punjab.5th May 2015.
19. One day workshop on **Ethical challenges in biomedical research.** Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. At Al Razi Hall Undergraduate studies, University of the Punjab. 23, May 2015.
20. Organized one day seminar on Targeted Cancer Therapy."by Dr. Sairah Alvi .Director Scientific and Medical Affairs , 39 Windsor Drive Oak Brook IL 60523, At Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. April 14th, 2015
21. Organized one day seminar .Targeted therapies and companion diagnostics. Sairah Alvi Consultant Global Medical Affairs. Astellas Chicago USA . At Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. ----- Oct, 2015
22. Organized workshop on Hands-On Training on Usage of Fire Extinguishers. At Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. December 22, 2015.
23. Organized workshop on Graph pad prism. At Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 24 Nov.2015.
24. Organized Poster competition on ecosystem, At Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. 29th May, 2015.

25. One Day Symposium entitled "Diversity In Microbiology: A Crosstalk" Organized by the Department of Microbiology & Molecular Genetics, in collaboration with American Society for Microbiology (ASM), 17th December,2015
26. Free health Camp on lipid metabolism.13-14 April,2015.
27. Organized series of lectures by Prof. Dr. Simon Silver. Department of Microbiology and immunology. University of Illinois, Chicago. 1). Beyond the Fringe: When Science Moves from Innovative to Nonsense. 30,March,2015; 2) Out of Africa: Human Genome Diversity and Migration Over the Last 70,000 Years 31,March,2015; 3)Writing and Publishing a Scientific Manuscript: Radical Changes are now Happening. 01 April,2015; 4) Mega viruses. 02 April,2015.
28. Organized one week facilitation workshop for Haripur University students in conducting Immunology, Molecular Genetics and Virology. Practicals. 5th - 9th January, 2016. At Department of Microbiology and Molecular genetics, University of the Punjab.
29. Organized Free health Camp on lactose intolerance test. 05 January, 2016. At Department of Microbiology and Molecular genetics, University of the Punjab (MMG, PU)
30. Organized one day workshop“ Endnote bibliography made easy” 12 January, 2016. At Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore.
31. Organized a Kashmir day event on 5th February, 2016. At Department of Microbiology and Molecular Genetics, University of the Punjab
32. Organized one day workshop on how close to '*in vivo*' can we get? 2d versus 3d cell culture : 09-10 February, 2016. At department of Microbiology and Molecular Genetics, University of the Punjab. Lahore.
33. Organized one day workshop on Western Blotting, 24 March, 2016. At Department of Microbiology and Molecular genetics, University of the Punjab .
34. Organized a Lecture on Kashmir Issue. speaker Prof. Dr. Massarrat Abid, Director Pakistan Study Centre, 1st March, 2016. At Department of Microbiology and Molecular Genetics, University of the Punjab.
35. Organized a series of work shop on better me 1) Program: A Better Me Session-1 What Do I Need in Life “Workshop-1” By Komal Amer Khawaja. 11 March, 2016, SESSION 2: How do I manage my Life; SESSION 3: What if I stress out. 29 April, 2016; SESSION 4: How do I communicate. At Department of Microbiology and Molecular genetics, University of the Punjab.
36. Organized a International Women’s Day celebrations on Tuesday 28th March, 2016. At Department of Microbiology and Molecular Genetics, University of the Punjab
37. Organized malaria day ““End Malaria for Good” for awareness of malaria and related diseases. 25 April, 2016. Speakers on zika virus. Dr. H. M. Kashif Saleem from Illama Iqbal medical college. Aqsa zaheer, Javaria Hashmi from MMG. At Department of Microbiology and Molecular genetics, University of the Punjab.
38. Organized a World DNA Day in collaboration with NAYS. 25 April, 2016. At Department of Microbiology and Molecular genetics, University of the Punjab.
39. Organized a poster competition on “how we can save earth and how we can become friends of earth” on world earth day, 22 April, 2016. At Department of Microbiology and Molecular Genetics, University of the Punjab.
40. Organized a workshop on blood : connect us all (WHO 2016 theme). May 16-17, 2016. At Department of Microbiology and Molecular genetics, University of the Punjab.
41. Organized World Immunization Day on 28 April, 2016. At Department of Microbiology and Molecular Genetics, University of the Punjab.
42. Organized a workshop on transaminases and its associated factors. 10-11May, 2016. At Department of Microbiology and Molecular Genetics, University of the Punjab.
43. Organized “BSL1 Design, Budget and Working: A Competition” on 16th May, 2016 in collaboration with The “*Biosafety and Bio-resource Committee*”, University of the Punjab and Department of Microbiology and Molecular Genetics.
44. Organized workshop on DNA fingerprinting A tool to explore genetic diversity. 25-26 May, 2016. At Department of Microbiology and Molecular Genetics, University of the Punjab.
45. Organized a World No Tobacco Day is observed around the world every year on May 31, 2016. At Department of Microbiology and Molecular Genetics, University of the Punjab.
46. Organized a seminar on emergency treatment of snake bites on 18th August, 2016. Dr Hafiz Shahid Lateef, Public Health Consultant. At Department of Microbiology and Molecular Genetics, University of the Punjab.

47. Organized With reference to International Longevity Day (1st October), Longevity Day 1st October, Mr. speaker Aftab Ahmad (Founder; Pakistan Aging Research Society) . At Department of Microbiology and Molecular Genetics, University of the Punjab.
48. Organized one day symposium on the awareness of diabetes.14th Nov 2016, At Department of Microbiology and Molecular Genetics, University of the Punjab.
49. Comprehensive lecture on Smog by Prof. Dr. Razi Abbas Shamsi on 15 Nov, 2016. At At Department of Microbiology and Molecular Genetics, University of the Punjab.
50. 4th In-Service Faculty Training Program. On Patent System of Pakistan and Patent Filing (Resource Person: Ms. Shakra Khurshid) and Communication Skills (Resource person: Prof. Dr. Hamid Rafiq Khattak). 22-25 Nov, 2016. At Department of Microbiology and Molecular Genetics, University of the Punjab.
51. Organized a anticorruption week (6th -10th December) as a activity of character building society a) poster competition 10th December, b) Corruption & Its Types speaker Dr Imran Sajid 6th December c) Corruption In Islamic Perspective And Social Life speaker Mr Muhammad Ali (presidentt of youth club, lahore) 7th December d) motivational lectur speaker mr. Qasim Ali Shah on 8th December. At Department of Microbiology and Molecular Genetics, University of the Punjab.

ADMINISTRATIVE EXPERIENCE

LAHORE COLLEGE FOR WOMEN UNIVERSITY, LAHORE.

1. Member admission committee., F.Sc ; M.Sc
2. Stock taking 1998- 1999. Equipment / instruments of department.
3. Member purchase committee.
4. Naming of plants present in College (member committee).
5. Member college time table (Science block).

BOTANY DEPARTMENT, PUNJAB UNIVERSITY , LAHORE.

6. Member admission committee, M.Sc. 2000-2002,M.Phil, Ph.D 2001- 24 June, 2004
B.Sc (Hons) 2001-2002.
7. Involved in framing syllabi for B.Sc (Hons)
8. Stock taking unserviceable / serviceable equipment/furniture 2001
9. Stock taking library, 2002
10. Incharge Ph.D Regular programme (Botany Department) 2002- 24 June, 2004.
11. Leave Record maintenance till 24 June, 2004.
12. Member, Self assessment committee (Quality enhancement cell) Botany Department . till 24 June, 2004.
13. Member, Board of Studies (Botany) From October , 2005- 21 June, 2007.

MICROBIOLOGY AND MOLECULAR GENETICS DEPARTMENT, PUNJAB UNIVERSITY , LAHORE.

14. Member admission committee, Ph.D-2002- to date , B.Sc (Hons) 2002 -todate , M.Sc 2002-to date
15. Coordinator B.Sc (Hons) programme (Till, May, 2011)
16. Member, Board of Studies - 21 June, 2007-2011.
17. Convenor, Board of studies MMG, 2011 -till to date
18. Member, Departmental discipline committee
19. Member, Departmental student advisory committee.
20. Member, Departmental study tour committee.

PUNJAB UNIVERSITY ADMINISTRATION

21. Monitoring duty in B.A / B.Sc Examination, 1st Annual 2001, Controller examination Branch, Punjab University.
22. Monitoring duty in M.Sc Part I Examination, 1st Annual 2003, Controller examination Branch, Punjab University.
23. Member, Board of Faculty of Science, from 16-02-2005-till. 4-4-2006.
24. Member, Board of Faculty of Life Science, from 4-4-2006- till to date .

25. Member Purchase Committee (2004- 31 Dec, 2006), Conventional and Non-conventional vegetable Research Farm.
26. Coordinator Incharge (27-1-2005- till 31 Dec, 2006), Floriculture Research farm, University of the Punjab , Lahore.
27. Secretary, Committee for supervision /finalization of construction of building of Microbiology and Molecular Genetics Department.
28. Member Committee, Floriculture Research farm and Conventional and Non-conventional vegetable Research Farm. (March 2011 – todate) University of the Punjab, Lahore.
29. Secretary, Doctoral programme coordination Committee (Oct, 2010 - 13th June 2012), Punjab University, Lahore.
30. Member, Doctoral programme coordination Committee (14th June 2012 - todate), Punjab University, Lahore.
31. Member Committee, for construction of parking lot and canteen, University of the Punjab, Lahore.
32. Member Committee, Dengue awareness campaign. 12.03.2012
33. Chairperson, Biosafety Bioresource Committee, University of the Punjab. (16.04.2013 –till todate).
34. Member, Member standing committee on plagiarism, University of the Punjab from 22-10-2014- todate.
35. Member, Reception committee in 123rd Convocation. University of the Punjab, Lahore.
36. Member, Purchase Committee, Faculty of Life sciences, University of the Punjab, Lahore.
37. Member, research project evaluation committee, University of the Punjab, Lahore.

MEMBER COMMITTEES OUTSIDE PUNJAB UNIVERSITY

38. Member, National curriculum Revision committee, in the subject of Microbiology. Higher Education commission ,
39. Convenor, National curriculum Revision committee, in the subject of Molecular Biology, Higher Education commission
40. Member, National committee for evaluation /recognition of Natural sciences and multidisciplinary research Journals. Quality assurance division, HEC Since Dec, 2016.
41. Member, Board of studies MMG, Women University Multan.
42. Member scholarship award committee, Punjab aids control program, Government of Punjab.