

DR. MEHBOOB AHMED

PERSONAL INFORMATION

Father's Name: Ahmed Khan
Date of Birth: 15 April 1979
Place of Birth: Bhowanj, Gujrat, Pakistan
NIC No.: 34203-1320943-7
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Marital Status: Married having son (Muhammad Abdul Rehman)
Addresses:

Present Address

Assistant Professor
Department of Microbiology & Molecular Genetics
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EDUCATIONAL BACKGROUND

Examination	Year	Subjects	Institution
Metric (SSC)	1994	Science	Federal Board, Islamabad
Intermediate (FSc)	1996	Pre-Medical	Federal Board, Islamabad
Bachelors (BSc)	1998	Bot, Zool, Chem	Punjab University, Lahore
B.Ed	2003	Bio, Chem	AIOU, Islamabad
Masters (MSc)	2000	Botany	Punjab University, Lahore
PhD	2011	Microbiology & Molecular Genetics	Punjab University, Lahore

RESEARCH PROJECTS

PhD Thesis Title: *Cyanobacterial Secondary Metabolites: Their Impact on Plant Growth and Fertility Status of Soil.*

MSc Thesis Title: *Isolation and Characterization of Root Associated Bacteria Exhibiting Antimicrobial Activity.*

WORKING EXPERIENCES

- Worked as a Teacher in a Pakistan Overseas Academy, Kharian for more than three years.
- Part-time Lecturer at Department of Microbiology and Molecular Genetics, University of the Punjab since 2006. Courses taught:

○ Waste Water Treatment	MS / M.Phil / PhD
○ Laboratory Techniques	MS / M.Phil / PhD
○ Virology	BS Hons
○ Bioinformatics	BS Hons / MSc / PhD
○ Biostatistics	BS Hons / MSc
○ Recombinant DNA Technology	BS Hons
○ Probiotics	BS Hons
- Higher Education Scholarship under 5000 Indigenous Scholarship programme, Batch-II. (2005)
- Higher Education Scholarship (IRSIP) for seven months international studies in Netherlands, Department of Marine Microbiology, CEME, NIOO-KNAW, Netherlands. (2008)
- Member American Society for Microbiology (ASM), USA.
- Worked as Research Scholar at Department of Microbiology and Molecular Genetics, University of the Punjab.
- Worked as Lecturer at Department of Microbiology and Molecular Genetics, University of the Punjab.
- Working as Assistant Professor at Department of Microbiology and Molecular Genetics, University of the Punjab.
- HEC approved PhD supervisor for Life Sciences.
(<http://sc.hec.gov.pk/aphds/submit.asp?supid=4077>)

WORKSHOPS AND CONFRENCES ORGANIZED

1. 7th Plant Science Conference, Botany Department, Punjab University (14-16 November, 2000)
2. 1st Symposium on Genomics, Proteomics, Metabolomics: Recent trends in Biotechnology, Department of Microbiology and Molecular Genetics, Punjab University (22-23 October, 2007)
3. Proteomics Workshop: From Sample Preparation to Data Analysis, Department of Microbiology and Molecular Genetics, Punjab University (24-25 October, 2007)
4. Seminar on “Microbial Resistant Paints”, organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, in collaboration with Higher Education Commission of Pakistan (17 April, 2008)

5. Symposium on Modern Biotechnology: *A Resource for Sustainable Development*, Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. (04 July, 2009)
6. Workshop on Molecular Hematology, Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan (09 February, 2010)
7. Symposium on Current Agro Biotechnology and Transgenic Plants, Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. (21 June, 2010)
8. Workshop on "Fluorescent Microscopy: Introduction and Applications" University of the Punjab, Lahore (24 September, 2011)

WORKSHOPS AND CONFERENCES ATTENDED

1. 7th Plant Science Conference, Botany Department, Punjab University (14-16 November, 2000)
2. 26th Zoological Congress, Zoology Department, Punjab University (04-06 April, 2006)
3. BC-HEC Radioimmunoassay Workshop, Sheikh Zayed Hospital, Lahore (15-18 May, 2006)
4. Participated in the HEC-BC Workshop on "Logframe and Proposal Writing" at Awari Hotel Lahore, on 27 May, 2006.
5. Two weeks workshop on Biostatistics & Research Methodology, King Edward Medical University, Lahore (2006)
6. 1st International Conference on Assessing Quality in Higher Education, IQTM, University of the Punjab, Lahore (11-13 December, 2006)
7. US-Pakistan International Workshop on Molecular biology: A tool for the future, Department of Microbiology, Jinnah University for Women, Karachi, Pakistan (23-24 March, 2007)
8. Oral Presentation in 1st Symposium on Genomics, Proteomics, Metabolomics: Recent trends in Biotechnology, Department of Microbiology and Molecular Genetics, Punjab University (22-23 October, 2007)
9. Proteomics Workshop: From Sample Preparation to Data Analysis, Department of Microbiology and Molecular Genetics, Punjab University (24-25 October, 2007)
10. Seminar on "Commercialization of Biotechnology Products", Lahore chambers of Commerce and Industry, National Commission On Biotechnology, Islamabad (30 October, 2007)
11. Seminar on "Transmission Electron Microscopy (EFTEM) analysis", by Mr. Klaus Teufel, Nanotechnology Consulting Company, Germany jointly organized by Carl Zeiss SMT- Nanotechnology system Division and Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore (October, 2007)
12. The Sixth Princess Chulabhorn International Science Congress (PC-VI), Bangkok, Thailand (25-29 November, 2007)

13. Collegium Ramazzini Satellite Workshop on "Occupational and Environmental Health in the Asia/Pacific Region", Chulabhorn Research Institute, Lak Si, Bangkok, Thailand. (30 November – 01 December, 2007)
14. International Conference on Recent Advances In Agriculture Biotechnology, Islamabad, Pakistan (18-19 March, 2008)
15. Seminar on Waste Disposal “Laboratory Waste Management ”, organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, in collaboration with Shalimar Hospital, Lahore (01 February, 2008)
16. Seminar on “Microbial Resistant Paints”, organized by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, in collaboration with Higher Education Commission of Pakistan (17 April, 2008)
17. National Bio-Forum 2008, Centre of Excellence in Molecular Biology (CEMB) Punjab University, Lahore, Pakistan (25-28 March, 2008)
18. NIOO days- Lunteren, Netherlands (17-18, September, 2008)
19. Symposia “Plants - insects - microbes: An ecological dance for three”, WICC, Wageningen, The Netherlands (November, 2008)
20. ASLO Aquatic Sciences Meeting, By American Society of Limnology and Oceanography, Nice, France (25-30 January, 2009)
21. International Symposium on “Future Trends in Molecular Biological Research & its Applications in Agriculture and Health”, Centre of Excellence in Molecular Biology (CEMB) Punjab University, Lahore, Pakistan (25-28 March, 2009)
22. International Workshop on Membrane Technology for Waste Water Reclamation and Reuse, National University for Science and Technology, Islamabad (13-14 May, 2009)
23. Conference on “*Development and Commercialization of Biotechnology Products*”, By National Commission on Biotechnology, Islamabad at National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad (19-20 June, 2009)
24. Symposium on Modern Biotechnology: *A Resource for Sustainable Development*, Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. (04 July, 2009)
25. 9th International Phycological Congress By International Phycological Society, Tokyo, Japan (02-08 August, 2009)
26. International Thematic Workshop on Advances in Bioinoculant/Biopesticide Production, Formulation and Application, By COMSTECH-HEC and COMSATS Institute for Information Technology, COMSTECH Secretariat, Islamabad (20-22 October, 2009)
27. Workshop on Molecular Hematology, Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan (09 February, 2010)
28. Biotechnology Lahore Cluster Meeting, FC College (Chartered University), Lahore (15 March, 2010)
29. Conference on “Bioinformatics: Opening New Frontiers In Molecular Biology Research”, Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore (14-15 May, 2010)
30. Training Session of Journals Management Information System, Institute of Quality and Technology Management, University of the Punjab, Lahore (May, 2010)

31. Symposium on Current Agro Biotechnology and Transgenic Plants, Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore. (21 June, 2010)
32. National Conference on "Animal Forensics: DNA Fingerprinting", Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore (21-22 September, 2010)
33. "National Biotechnology Exhibition and Seminars 2010", Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences, Lahore (20-21 October, 2010)
34. 6th International Conference on Plant Tissue Culture & Biotechnology, Department of Botany, University of Dhaka, Dhaka, Bangladesh (3-5 December, 2010)
35. 11th National Meeting of Plant Scientists (NMPS) and 2nd International Conference of Plant Scientists (ICPS-2011) by Pakistan Botanical Society, GC University, Lahore, (22-24 February, 2011)
36. Workshop on "Computational Resources for Protein Modeling" by Institute of Biochemistry and Biotechnology and Higher Education Commission, University of the Punjab, Lahore (14-18 March, 2011)
37. International Workshop on Frontiers in Molecular Biology & Biotechnology, By COMSTECH, COMSTECH Secretariat, Islamabad. (28-30 March, 2011)
38. 1st National Phycological Conference, GC University, Lahore, (30-31 March, 2011)
39. Seminar on "Organizational Intelligence" held in the Al-Raazi Hall, Punjab University Centre for Undergraduate Studies (13 June, 2011)
40. Deliver Lecture on "A Glimpse on the Exciting World of Cyanobacteria" in Queen Mary College, Lahore (16 June, 2011)
41. International Workshop on Frontiers in Green Technology, By COMSTECH, COMSTECH Secretariat, Islamabad. (28-30 June, 2011)
42. Attended Faculty Orientation Programme 2011, Institute of Administrative Sciences, University of the Punjab, Lahore (05 - 08 July, 2011)
43. International Conference on "Prospects and Challenges to Sustainable Agriculture", University of Azad Jammu & Kashmir, Rawalakot, AJKU. (14 - 16 July, 2011)
44. Conference on "IV International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2011)" Malaga, Spain (14 – 16 September, 2011)
45. Workshop on "Fluorescent Microscopy: Introduction and Applications" University of the Punjab, Lahore (24 September, 2011).
46. 6th Asian Pacific Phycological Forum (APPF 2011), Yeosu, Korea. (9-14, October 2011)
47. Five days In Service Faculty Training Program by Department of Microbiology & Molecular Genetics (MMG), University of the Punjab, Lahore and Learning Innovation Division (LID), Higher Education Commission (HEC) Pakistan (18 – 22 October, 2011)
48. Computational Biology and Bioinformatics Workshop (C2BW), organized by the Department of Biology, School of Science and Engineering, LUMS, Lahore (09 – 13 January, 2012).

PUBLICATIONS

1. Ahmed, M., Stal, L. J. and Hasnain, S. 2010. Association of Non-Heterocystous Cyanobacteria with Crop Plants. *Plant and Soil*, 336: 363–375. (doi:10.1007/s11104-010-0488-x) **(Impact factor: 2.773)**.
2. Ahmed, M., Stal, L. J. and Hasnain, S. 2011. DTAF: An Efficient Probe to Study Cyanobacterial-Plant Interaction Using Confocal Laser Scanning Microscopy (CLSM). *Journal of Industrial Microbiology & Biotechnology*, 38: 249-255. (doi:10.1007/s10295-010-0820-8) **(Impact factor: 2.416)**.
3. Ahmed, M., Stal, L. J. and Hasnain, S. 2010. Production of Indole-3-Acetic Acid by the Cyanobacterium *Arthrospira platensis* Strain MMG-9. *Journal of Microbiology and Biotechnology*, 20(9): 1259–1265. (doi:10.4014/jmb.1004.04033) **(Impact factor: 1.224)**.
4. Ismail-Ben Ali, A., El Bour, M., Ktari, L., Bolhuis, H., Ahmed, M., Boudabbous, A. and Stal, L.J. 2011. *Jania rubens* associated bacteria: molecular identification and antimicrobial activity. *Journal of Applied Phycology* (doi:10.1007/s10811-011-9758-0) **(Impact factor: 1.798)**.

SKILLS

Computer (Microsoft Office 2000, 2003, 2007, Inpage Urdu, Windows, SPSS, EndNote)
Languages (Urdu, English, Punjabi)

TECHNIQUES

Basic and advance techniques in recombinant DNA technology (PCR, Cloning, Sequencing etc)
Basic and advance microscopy (Light, Fluorescent, Confocal laser scanning etc)
Bioinformatics

LANGUAGES

Urdu English Punjabi

COUNTRIES VISITED

Thailand	Netherlands	Germany	Belgium
France	Monaco	Japan	Bangladesh
Spain	Dubai	South Korea	

RESEARCH INTERESTS

Isolation, Characterization and Culturing of Cyanobacteria:
Cyanobacterial Secondary Metabolites:
Exopolysaccharides from Cyanobacteria:
Nitrogen Fixation:
Cyanobacteria-Plant Symbiosis:
Molecular Studies:
Bioinformatics

REFERENCES

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PROF. DR. LUCAS J. STAL

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