

Hira Mushtaq

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Personal

Father's Name: Mushtaq Ahmad
DOB: 12th August, 1987
Marital Status: Single
Nationality: Pakistani
NIC # 17301-8769946-4
Languages: English (highly skilled), Urdu (national language), Pashto (native language),
Special Interests Reading books, Computers, Badminton & Cooking.

Objective

To obtain a challenging opportunity with a team oriented organization which will utilize my demonstrated leadership skills and expertise in Microbiological procedures and diagnostic approaches resulting in appropriate opportunities for professional and personal growth.

Education

2010-2012	MPhil Biotechnology (specialization in Microbiology) cGPA 3.9/4	Centre of Biotechnology and Microbiology, University of Peshawar
2005-2009	BS Hons (Microbiology) cGPA 4/4 <i>{Gold Medalist }</i>	Centre for Biotechnology and Microbiology, University of Peshawar.
2003-2005	FSC (Higher Secondary School Certificate) [Pre-Medical] A+Grade.	Board of Intermediate and Secondary Education, Peshawar – Pakistan
2001-2003	SSC (Secondary School Certificate) [Science Group] A+ Grade. <i>{11th Position In Board}</i>	Board of Intermediate and Secondary Education, Peshawar – Pakistan

Employer **University Of Peshawar (Centre for Biotechnology & Microbiology)**

Designation **Regular Lecturer**

Duration 15th Feb, 2010 – Till Date

Description

- To carry out research, teaching and administration within the Department, especially in the area of Microbiology.
- Developing and implementing new methods of teaching to reflect changes in research.
- Delivering lectures, seminars and tutorials.
- Supporting students through a pastoral/advisory role.
- Undertaking personal research projects and actively contributing to the institution's research profile.

Employer **Rehman Medical Institute, Peshawar**

Designation **Lab Technologist**

Duration 24 August, 2009 - 15 February, 2010

Description

- PCR operation (HBV & HCV) + ELISA
- Specimen processing for culture and sensitivity
- Microscopy + R/E.
- Serological testing (ANF, Rapid syphilis test, Echinococcus test, rapid ICT procedures & Influenza A B ICT tests)
- Rapid tests for PT + APTT + HBA1

Other Practical skills

Molecular biology	DNA/RNA isolation from plant and animal cells. Gel electrophoresis. Plasmid isolation Cloning procedures Karyotyping Spectrophotometer
Others	Microsoft office (Ms Word, Ms Excel and Ms Power Point). Windows installation

Projects	
Project Title	Determining efficacy of therapeutic mouth rinses on oral micro biota (Particularly on dental caries causing alpha- Streptococcus species)
Description	Dental plaque and dental caries causing microorganisms (bacteria) isolated from saliva. Difference is CFU number before and after use of five commercially available therapeutic mouth rinses showed efficacy. Dental caries causing □ □ Streptococcus isolated from patients carrying dental caries and inhibitory activity of therapeutic mouth rinses evaluated.
Project Title	Isolation and Characterization of colicin producing probiotic bacteria to be used against E.coli O157 H7
Description	Antibiotics cannot be used for treatment of hemolytic uremic syndrome; other chemotherapeutic agents can be used to prevent its occurrence. Under the highlight of usefulness of probiotics (colicins) on animals for control of enterohemorrhagic <i>E.coli</i> , specific colicins against <i>E.coli</i> O157:H7 in humans can be used to prevent complications and severity of hemolytic uremic syndrome.
Project title	Isolation and characterization of phosphate solubilizing bacteria from rhizosphere soil of <i>triticum aestivum</i> (wheat)” (short project) Samples from different districts of KPK processed for the difference in microflora content of soil found in <i>triticum aestivum</i> crop land. Comparison was made for the efficient biochemical activities of these microbes and highly effective species were identified.
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Conferences/ Workshops	33 rd PAP National Conference On “ Quality Assurance In Laboratory Practice ” held at PIMS, Islamabad, Nov 6-8, 2009. 8 th National training course on “ Modern techniques in molecular Biotechnology ” at NIBGE, Faisalabad, April 12 –16, 2010. 1 st national conference on “ Biotechnology and Microbiology ” at Bara Gali Campus, University of Peshawar, July 2010. 2 nd national conference on “ Biotechnology and Microbiology ” at Bara Gali Campus, University of Peshawar, July 2012. 20 th master training of teacher “ Learning innovation division, Higher Education Commission ” at HEC Islamabad, January 7-March 2, 2012. International Workshop on “ Radiotracers: Production Technology and Applications ” COMSTECH, Islamabad , October 21-23, 2013.
Publication	Hira Mushtaq, Jehan Bakht and Nafees Bacha. Screening of the novel colicinogenic gram negative rods against pathogenic <i>Escherichia coli</i> O157:H7. <i>Indian Journal of Medical Microbiology</i> , 2014, 13 (256R6)