

CURRICULUM VITAE

Name Zia-ur-Rahman

Date of Birth November 3, 1953

Designation Assistant Professor

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Education Ph.D (Molecular Biology), National Centre of Excellence in Molecular Biology, University of the Punjab,

Research and teaching experience

1. **1986-1989).**
Worked with the group studying **metal binding proteins** using yeast as model organism.
2. **(1989-1993).**
Worked with the group trying to find out molecular basis of **chickpea blight** and interactions between Chickpea and *Ascochyta rabiei*, I have tried to establish the role chickpea components for the induction of toxin production by the pathogen *Ascochyta rabiei* comparing resistant and susceptible cultivars of Chickpea.
3. **(1993-1995).**
Worked with the **Production group** of the Centre busy to provide different molecular biological tools to the researchers. I used to synthesize oligonucleotide (Primers for DNA amplification, linkers, adapters etc.)
4. **(1995-2002)**
Worked with and lead **forensic group** to establish conditions for DNA fingerprinting (Human, Bacterial and Plant). Conditions for genotyping and human identification were established in the lab. Helped Punjab Police to resolve a parentage case, Blood samples were processed for genotyping STR loci and DNA test report was generated in September, 2001 and Lahore High Court decided the case in the light of the reported results in October, 2001 first time in the history of Pakistan. Supervised and guided seven M. Phil. Students to complete their research assignment in the field of DNA Fingerprinting.
5. **(2003-2005)**
Worked with the **Biopharmaceutical group**, tried to get native gene for human

erythropoietin but in vein. Gene was designed with appropriate cloning strategy for Erythropoietin and Interferon alpha 2b.

6. **January, 2006 – to October, 2009.**

worked with **Bioinformatic group** of the Centre. Bioinformatics tools for the annotation of raw genetic information are learnt. Major objectives addressed are development of epitope vaccines against economically important threats to life. Basic work to organize human MHC binding peptides data has been done for future research. Other fields of working titles are related to gene optimization for better expression in target organisms and changes in physio-chemical properties of proteins in response to genetic mutation.

- **Current Project:**

November, 2009 to todate:

Leading **Forensic Services Lab** of the Centre as DNA Technical Incharge. One Ph.D and two M. Phil Students are working under supervision.

Publications:

1. Nasir, I. A., Jahangir, G. A., Qamar, Z., Rahman, Z. and Husnain, T. (2011). Maintaining the regeneration potential of sugarcane callus for longer span. African Journal of Agricultural Research. 6(1):113-119.
2. Bushra, T., **Nasir, I. A.** Farooq, A. M., Rahman, Z. and Husnain, T. (2010). Viability assessment of in-vitro produced synthetic seeds of cucumber. African Journal of Biotechnology. 9 (28):7026-7032.
3. Faraz Malik, Mahmood A. Kayani, M. Ansar, Obaid Ullah, Muhammad Shafeeq, Shahid Chohan, Yassir Abbas, Saqib Shazad, Ali Raza, Rahat Rehman, Faizan Raiz, Qurat-ul-ain, Muhammad Hassan Siddiqi, Allah Rakha, Zia ur Rahman, Zahoor Ahmed, (2008). Development of 19-plex Y STR system and polymorphism studies in Pakistani population. Journal of Xi'an Jiaotong University, 20 (4).
4. Saqib Shahzad, S. Yassir Abbas, Abdul Qayyum Rao, M. Hashim Raza, ObaidUllah, **Ziaur Rahman** , A. Ali Shahid, Zahoor Ahmed, and S. Riazuddin (2004). Population Studies of STR Markers Loci D3S1358, D5S818, D7S820,

D18S51 and FGA (FIBRA) in Sindhi and NWFP Populations of Pakistan for Forensic Use. **ARCH. MED. SAD. KRYM. Vol. LIV:** 215-222

5. S. Yassir Abbas, Saqib Shahzad, Abdul Qayyum Rao, M. Hashim Raza, F. Arshad, M. Shafique, **Ziaur Rahman**, A. Ali Shahid, Zahoor Ahmed, and S. Riazuddin. (2003). Development of STR Multiplex System (D5S818, D7S820 And D18S51) for Forensic Casework. **Pak. J. Zoology. (Proceedings of 23 rd Pakistan Congress of Zoology), Vol. 23:** 167-174.
6. Aslam, N., **Rahman, Z** . and Riazuddin, S. (2002). Optimization of PCR Conditions to amplify Short Tandem Repeats (STR) of Human Genomic DNA. **International J. of Agriculture & Biology. Vol. 4(1) :** 4-7.
7. Aslam, N., **Rahman, Z** and Raizuddin,S. (2002). Allelic and Genotypic Frequency distribution and three STRloci (vWA, D3S1358 and D16S539) in Pakistani Population. **International J. of Agriculture & Biology Vol. 4(1) :** 8-11.
8. **Rahman, Z**, Afroze, T, and Weir, S.B. (2001). DNA Typing results from two urban Sub-Populations of Pakistan. **J. of Forensic Sciences USA. Vol. 46(1):** 111-115.
9. **Rahman, Z** ., Shahid, A. A. and Riazuddin, S. (1994). Plant Fungus Interaction Chickpea Blight. **Pak. J. Agric. Res. Vol. 15:** 1, 294-96.
10. Khan M. I., Yasmin, R., Fahmy, M. A., Haq R., Shakoori, A. R. and **Rahman Z** . (1989). Studies on cell survival and metal binding protein(s) in yeast. **Pak. J. Zool. Vol. 20:** 275-81
11. **Rahman Z** ., Ali, N. and Khan K. M. (1980). Increase in Wheat yield by Triacontanol: An Alfalfa (Medicago Sativa) Constituent. **Pak. J. Agri. Sci. Vol. XVII:** 15-18.

Honours & Awards:

1. International Hand-on Training course on DNA Fingerprinting held at Centre for DNA Fingerprinting & Diagnostics (CDFD), Hyderabad, India from 6 - 19th November 1997.
2. One-year training course at Institute of Experimental Medicine, CNR, Rome, Italy from September 1998 to August 1999. Major emphasize during this period was on DNA profiling & Genetic Linkage analysis using PCR amplification of the target DNA and visualizing the amplified product by DNA Sequencer (Genetic Analyzer-310).
3. Helped Punjab Police to resolve a parentage case, Blood samples were processed for genotyping STR loci and DNA test report was generated in September, 2001 and Lahore High Court decided the case in the light of the reported results in October, 2001 first time in the history of Pakistan.
4. Supervised Eleven M. Phil. Students.