

OBJECTIVE

To get valuable learning experience and knowhow of the applications of my field in real life and to build my skills through further education

QUALIFICATION

MS-Bioinformatics 2009-2011,

Comsats Institute of Information Technology, Islamabad, Pakistan,

CGPA 3.48/4.00

PROFESSIONAL EXPERIENCE

Eight weeks internship in Bioinformatics lab, at CEMB (National Center Of Excellence And Molecular Biology), University of Punjab, Lahore, Pakistan, from April to May, 2008

PUBLICATIONS:

- Saadia Arshad, Asia Mumtaz, Freed Ahmad, Sadia Liaquat, Shahid Nadeem, Shahid Mehboob, Muhammad Afzal "Mi-DISCOVERER: A bioinformatics tool for the detection of mi-RNA in human genome" Bioinformation, (2010) Vol.05, No.6
- Muhammad Afzal, Ahmed Salman Mirza, Saadia Arshad, Salah u Din, Shahid Nadeem and Shahid Mahboob "Regenerating Human Mitochondrial Genome from a Programmed Microchip" European Journal of Scientific Research, (2010) Vol.46, No.2 pp.266-274

AWARDS

1st Position in Poster Competition on "DNA Day Celebration" at Department of Zoology, Government College University, Faisalabad, Pakistan at 25th April, 2007

PROJECTS

- "Comparative Analysis and Identification of Co-Expressed Genes in Related and Distant Species"
- Mi-DISCOVERER: Software for mi-RNA Detection in Human Genome along with the tool development in JAVA, Database management in MS Access.

BIOINFORMATICS SKILLS

- Molecular biology: analysis of DNA sequences
- Molecular genetics: databases and sequences analysis
- Molecular graphics: (Raswin)
- Molecular Visualization Software: (Rasmol, Cn3D, SwissPdbviewer)
- Use of Biological Data Banks: (NCBI, PDB, EXPASY, Swiss-Prot)
- Alignment Tools: (BLAST, Clustal package, Multalign)
- Sequences analysis programs: (BLAST, CLUSTALW, LALIGN)
- Protein folding: Relationship between structure and function, Proteins interactions
- Modeling and Simulation Tools: NetLogo, StarLogo, NWB, Gephi
- Statistical Tools: SPSS

Computer skills:

- Proficient in computer language C++ and HTML
- To a lesser degree in (object oriented) Perl and Java
- Proficient in database development and maintenance, RDBMS (Oracle, MySQL, MS- access)
- Windows 2000/XP, Linux

ACTIVITIES

- 1st International Conference on "Biotechnology & Informatics" at BUITMS, Quetta, Pakistan from 10th to 12th April, 2006
- 28th Pakistan Congress of Zoology (International) at Government College University, Faisalabad, Pakistan from March 18th to 20th, 2008
- 9th Biennial PSBMB Conference on "Advances in Biochemistry and Molecular Biology" at PMAS Arid Agriculture University, Rawalpindi, Pakistan from December 17th to 20th, 2008
- 29th Pakistan Congress of Zoology (International) at University of Sindh, Jamshoro, Pakistan from February 24th to 26th, 2009
- International Conference on "Frontiers of Information Technology" at COMSATS Institute of Information Technology, Abbotabad, Pakistan, from December 16th to 18th, 2009
- Merit Certificate with a distinction on "Parents Day Participation" at PAF Degree College Rafiqi, Shorkot Cantt, Pakistan, 1996