

Hamid bashir

Research Officer

Centre for Applied Molecular Biology

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OBJECTIVE

To work in a team-oriented R&D environment leveraging my expertise in molecular biology and to seek challenging assignment and responsibility, with an opportunity for growth and career advancement as successful achievements.

POSTAL ADDRESS

Office: Centre for Applied Molecular Biology, 87-West Canal Bank, Thokar Niaz Baig, Lahore-53700, Pakistan

EDUCATION

Enrolled in PhD 2012-2017	Molecular Biology University of the Punjab Lahore Pakistan.
M.Phil 2010-2012	Molecular biology University of the Punjab Lahore Pakistan.

AREAS OF INTEREST

- Gene cloning ,expression studies
- Fermentation studies *E. coli*, pichia pastors
- DNA Sequencing and Genotyping
- Human Recombinant Proteins expression
- Human Recombinant Proteins purification
- In vitro studies

SCIENTIFIC AND RESEARCH EXPERIENCE

- Two years working experience in siza internanatiol (pvt) LTD as a **Quality Control Chemist** with additional duties in R&D from 2003 to 2006.
- I joined Centre for Applied Molecular Biology as Research Officer in 2006. Group wise scientific and research activities are

BIOPHARMACEUTICAL LAB (2006- to dtae)

My scientific and research activities in Biopharmaceutical Lab as a group member are

- Cloning of the human gene.
- Expression studies, fermentation and purification of different human recombinant proteins.
- Recombinant protein purification using AKTA Explorer and AKTA Pilot purification systems.
- Optimizing reaction conditions for PEGylation of human recombinant proteins and purification of mono PEGylated proteins at lab scale.
- Different quality control tests for recombinant proteins.

INSTRUMENTATION SKILLS AND MOLECULAR BIOLOGY TECHNIQUES

Good command on following scientific equipments and molecular biology techniques

- Gene cloning and expression studies
- Fermentation (*E.coli*, pichia pastors)
- AKTA PILOT Purification System
- AKTA Explorer Purification System
- High Performance Liquid Chromatography (HPLC)
- Gas Chromatograph (GC)
- UV-Vis Spectrophotometer
- PCR
- Conductivity Meters and pH Meters
- Karl Fischer Moisture Analyzer
- Peptide Mapping
- SDS-PAGE
- Agarose Gel Electrophoresis
- Iso-electric Focusing
- Western Blotting
- Sequencing PCR
- Genotyping and DNA Fragment Analysis
- DNA/RNA extraction both using commercial kits as well as manual methods

BIOINFORMATICSSKILLS

Good command on different bioinformatics tools used for DNA sequencing analysis and DNA fragment analysis and primer designing such as

- Sequencing Analysis
- GeneMapper
- Chromas
- Primer3

WORKSHOPS, TRAININGS AND CONFERENCES

- Participated in a conference on “DNA Day & NAYS Emerging Ideas Conference” organized by National Academy of Young Scientists (NAYS) and Centre of Excellence in Molecular Biology with sponsorship of The Emerging Nations Science Foundation (ENSF) on 25th April 2013.

PUBLICATIONS

- Ahmed, N., **H. Bashir**, A. U. Zafar, M. A. Khan, S. Tahir, F. Khan, M. I. Khan, **M. Akram** and T. Husnain (2015). "**Optimization of conditions for high-level expression and purification of human recombinant consensus interferon (rh-cIFN) and its characterization.**" *Biotechnol Appl Biochem*.
- Ahmed, N., Zafar, A. U., Khan, M. A., Tahir, S., Khan, M. I., **Bashir, H.**, ... & Husnain, T. (2014). **Matrix-assisted refolding and purification of placenta-derived recombinant human interleukin-6 produced in Escherichia coli.***Biotechnology and applied biochemistry*, 61(5), 541-548.