

Hamid bashir

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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

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| Enrolled in PhD 2012 | 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

- Organized hands on training workshop on clinical diagnostic by real time PCR, western blot and cell culturing (2016)

Awards and Distinctions

- Received incentive award of Rs. 16000/- for research Publications in 2017.
- Received incentive award of Rs. 21000/- for research Publications in 2018.

Research Projects

Completed

- Mutagenesis of *bacillus subtilis* for the high yield Production of alpha amylase by taking cost effective measures funded by University of the Punjab, Lahore (Rs.125,000/-)

PUBLICATIONS

1. Usman, Sana, Zara Naz, Komal Saleem, **Hamid Bashir**, Muhammad Bilal, and Aleena Sumrin. "The countermeasure for Zika virus: a hard nut to be cracked." *Future Virology* 13, no. 5 (2018): 361-369.
2. Khan, Faidad, Mohsin Ahmad Khan, Nadeem Ahmed, Muhammad Islam Khan, **Hamid Bashir**, Saad Tahir, and Ahmad Usman Zafar. "Molecular Characterization of Pneumococcal Surface Protein A (PspA), Serotype Distribution and Antibiotic Susceptibility of Streptococcus pneumoniae Strains Isolated from Pakistan." *Infectious diseases and therapy* 7, no. 2 (2018): 277-289.
3. Naz, Zara, Sana Usman, Komal Saleem, Sara Ahmed, **Hamid Bashir**, Muhammad Bilal, and Aleena Sumrin. "Alpha-fetoprotein: A fabulous biomarker in hepatocellular, gastric and rectal cancer diagnosis." *Biomedical Research* 29, no. 12 (2018): 2478-2483.
4. Shahzadi Javeed, Maha Almas, Muhammad Shahid, Aleena Sumrin, **Hamid Bashir**, Muhammad Bilal, Zafar Saleem, Ghulam Zahra Jahangir, Samia Afzal, Muhammad Idrees, Iram Amin: *Review Nrf2: A MASTER REGULATOR OF CELLULAR DEFENSE MECHANISM AND A NOVEL THERAPEUTIC FACTOR*. Pakistan Journal of Biotechnology 01/2017; 14(1):121-126
5. **Bashir, Hamid**, Nadeem Ahmed, Mohsin Ahmad Khan, Ahmad Usman Zafar, Saad Tahir, Hina Kanwal, Faidad Khan, Zia ur Rahman, and Tayyab Husnain. "Evaluating the autoinduction expression

system and one-step purification for high-level expression and purification of gallbladder-derived rhIL-1Ra." *Biotechnology and applied biochemistry* 64, no. 1 (2017): 20-26.

6. Ahmed, Nadeem, Rabbia Abbas, Mohsin Ahmad Khan, **Hamid Bashir**, Saad Tahir, and Ahmad Usman Zafar. "Enhancing recombinant interleukin-6 production yield by fermentation optimization, two-step denaturing, and one-step purification." *Biotechnology and applied biochemistry* 65, no. 3 (2018): 490-496.
7. Khan, Khushbukhat, Muhammad Adeel Aslam, Fatima Tuz Zahra, **Hamid Bashir**, Muhammad Bilal, and Aleena Sumrin. "Potential biomarkers for the diagnosis of respiratory tract infection and lungs cancer." *Cell Mol Biol (Noisy le Grand)* 63, no. 11 (2017).
8. Wahid, Braira, **Hamid Bashir**, Muhammad Bilal, Khansa Wahid, and Aleena Sumrin. "Developing a deeper insight into reproductive biomarkers." *Clinical and experimental reproductive medicine* 44, no. 4 (2017): 159-170.
9. Shumaila Moazzam , IrsaRamzan , ZunairaBatoool ,Aleena Ahmad Khan ,Sana Kaleem,**Hamid Bashir**¹, Muhammad Bilal¹, Aleena Sumrin^{1*}(2017).Exosomes as Biomarker of Cancer .Brazilian archives of Biology and Technology Accepted
10. Javed Z, Ullah M, Ashfaq MA, Shah AH, Shahzad M, Bilal M, Sumrin A, **Bashir H**, Siddiqi MH, Sadia H (2016). Role of MicroRNA in Endometrial Carcinoma. *Adv. Life Sci.* 4(1): 08-13
11. Bashir, Hamid, Nadeem Ahmed, Mohsin Ahmad Khan, Ahmad Usman Zafar, Saad Tahir, Muhammad Islam Khan, Faidad Khan, and Tayyab Husnain. "Simple procedure applying lactose induction and one-step purification for high-yield production of rhCIFN." *Biotechnology and applied biochemistry* 63, no. 5 (2016): 708-714..
12. Kausar Malik*, **Hamid Bashir**, Muhammad Bilal, Husnain Qamar, Zaid Mehmood , In vitro evaluation of synergistic antimicrobial activity of *Trachyspermum ammi* and *Syzygium aromaticum*. *International Journal of Biosciences*, (2016) Vol. 9, No. 4, p. 221-228,
13. Wardah Safdar, Maria Aftab, Beenish Saddique, Irsa Akhtar, **Hamid Bashir**, Muhammad Bilal, Aleena Sumrin*, Methodological development of cytokine as a biomarker. *International Journal of Biosciences*, (2016) Vol. 9, No. 6, p. 55-65
14. Ahmed, Nadeem, **Hamid Bashir**, Ahmad Usman Zafar, Mohsin Ahmad Khan, Saad Tahir, Faidad Khan, Muhammad Islam Khan, Muhammad Akram, and Tayyab Husnain. "Optimization of conditions for high-level expression and purification of human recombinant consensus interferon (rh-cIFN) and its characterization." *Biotechnology and applied biochemistry* 62, no. 5 (2015): 699-708.
15. Ahmed, Nadeem, Ahmad Usman Zafar, Mohsin Ahmad Khan, Saad Tahir, Muhammad Islam Khan, **Hamid Bashir**, Faidad Khan, Samreen Sarwar, Sadaf Ilyas, and Tayyab Husnain. "Matrix-assisted refolding and purification of placenta-derived recombinant human interleukin-6 produced in *Escherichia coli*." *Biotechnology and applied biochemistry* 61, no. 5 (2014): 541-548.