

## CURRICULUM VITAE

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### **Dr. Hamid Bashir**

Asistant Professor

### **Member**

Member of proteomics research group CAMB

### **Specialty**

- 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.

### **Mailing Address:**

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## ACADEMIC QUALIFICATION

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2019	Ph.D.(Molecular Biology) University of the Punjab, Lahore, Pakistan. Thesis Title: Molecular Characterization of Human Recombinant Interleukin-1Ra Mutants
2012	M.Phil. (Molecular Biology) University of the Punjab, Lahore Pakistan.
2003	M.Sc. (Chemistry) University of the Punjab, Lahore Pakistan.

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## PROFESSIONAL POSITIONS:

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2020 to present	Assistant Professor
2008- 2020	Research officer/ lecturer Centre for Applied Molecular Biology (CAMB), University of the Punjab, Lahore, Pakistan
2006 – 2008	Assistant Research Officer, CAMB, University of the Punjab Lahore, Pakistan

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## ACHIEVEMENTS:

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### Awards and Distinctions

1. Received incentive award for Research publications 2016.
2. Received incentive award for Research publications 2017.
3. Received incentive award for Research publications 2018.
4. Received incentive award for Research publications 2019.

### 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

#### Academics:

Revised & Prepared Curriculum for BS, M-Phil and PhD  
Students at CAMB, PU, Lahore

Teaching M.Phil & Ph.D courses at CAMB, PU, Lahore

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## STUDENTS SUPERVISION

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M.Phil. Students: Supervised eight M.Phil students & three under supervision

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## PUBLICATIONS IN IMPACT FACTOR JOURNALS

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1. Hussain, Manzoor, Afeefa Chaudhry, and **Hamid Bashir**. "Enhance production of alkaline protease by chemical mutagenesis of *Bacillus* species." *BioCell* 43, no. 5 (2019).
2. Ramzan, Irsa, Afeefa Chaudhry, **Hamid Bashir**, Muhammad Bilal, and Aleena Sumrin. ". Comparative study of alpha amylase producing mutated and unmutated *Ba-cillus* strains by taking cost effective measures." *Pure and Applied Biology (PAB)* 8, no. 2 (2019): 1789-1800.
3. 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.
4. 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.

5. 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.
6. 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
7. **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.
8. 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.
9. 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).
10. 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.
11. Shumaila Moazzam , IrsaRamzan , ZunairaBatoool ,Aleena Ahmad Khan ,Sana Kaleem,**Hamid Bashir**<sup>1</sup>, Muhammad Bilal<sup>1</sup>, Aleena Sumrin<sup>1\*</sup>(2017).Exosomes as Biomarker of Cancer .Brazilian archives of Biology and Technology Accepted
12. 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
13. 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..
14. 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,
15. 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
16. 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.
17. 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.
18. Hussain, Manzoor, Afeefa Chaudhry, and **Hamid Bashir**. "Enhance production of alkaline protease by chemical mutagenesis of *Bacillus* species." *BioCell* 43, no. 5 (2019).
19. Unzila Yasin, Muhammad Bilal, **Hamid Bashir**, Muhammad Imran Amirzada, Aleena Sumrin and Dr Muhammad Hassham Hassan Bin Asad."Preparation and Nanoencapsulation of Lectin from

Lepidium sativum on Chitosan-Tripoly Phosphate Nanoparticle and their Cytotoxicity against Hepatocellular Carcinoma Cells (HepG2)" (2020). BioMed Research International accepted

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#### **WORKSHOP ATTENDED/LECTURES DELIVERED:**

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- I. Organized hands on training workshop on clinical diagnostic by real time PCR, western blot and cell culturing (2016).
- II. Organized One day seminar on advances in nucleic acid technology (2016).
- III. Participate in one day symposium on DNA in crime Research (2017).
- IV. Organized One day symposium on industrial biotech&biorefining (2018).
- V. Organized One day seminar on Bio safety Training for young Researcher (2018).
- VI. Recent innovations in molecular science university of the Punjab Lahore (2019).

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#### **BRIEF INTRODUCTION:**

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**I Dr. Hamid Bashir**, started my career by joining as “Research Officer” in Biopharmaceutical lab of Centre for applied Molecular Biology (CAMB), University of the Punjab Lahore in 2006. I worked on project “production of recombinant interferon”. I learned many Molecular Biology techniques including PCR, ELISA, Gel Electrophoresis, Molecular cloning, Sequencing, Fermentation. SDS-PAGE, Western Blotting and Cell Culturing etc during working on different recombinant therapeutic protein projects like interferon, consensus interferon, insulin, rhG-CSF, Interleukin-6 and published the data in national and international journals. I completed my PhD in Molecular biology from Punjab University-Lahore in 2019. My area of expertise includes Gene cloning and expression study, Fermentation and protein purification via HPLC and FPLC. Currently, besides teaching I also engaged with research and development activities in the proteomics lab of CAMB and 08 M.Phil students completed their thesis while 03 M.Phil are working under my supervision. I am an author of number of publications in the peer reviewed journals.