

CURRICULUM VITAE

Dr. Hamid Bashir

Assistant Professor

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Dr. Hamid Bashir, is presently working as assistant Professor in the Centre for Applied Molecular Biology (CAMB), University of the Punjab, Lahore. He started his career by joining as “Research Officer” in Biopharmaceutical lab of Centre for applied Molecular Biology (CAMB), University of the Punjab Lahore in 2006. As a team member he worked on the project “production of recombinant interferon” and also on other different recombinant therapeutic protein production projects like interferon, consensus interferon, insulin, rhG-CSF, Interleukin-6. He completed his PhD in Molecular biology from Center of Excellence in Molecular Biology (CEMB), University of the Punjab, Lahore. Currently, besides teaching he also engaged with research and development activities in the proteomics lab of CAMB. In his lab, he is supervising M.Phil and Ph.D students involved in working on various therapeutic proteins. His area of expertise includes Gene cloning and expression studies, Fermentation, Protein purification, their characterization and activity studies against different cell lines.

He has published various articles in journals of international repute with an approximate impact factor of 40, an h-index of 7, an i10 index of 5, and ~118 citations.. He also has various extramural & intramural research grants on his credit and has an active collaboration with the UCP& COMSATS University Islamabad. Until now, 13 M.Phil research scholars have completed their degrees under his supervision.

PUBLICATIONS

1. Expression, Purification and Cytotoxicity Evaluation of Recombinant Azurin –BR2 Fusion Protein PLOS ONE accepted
2. PEGylated Protamine Letrozole Nanoparticles: A Promising Strategy to Combat MCF-7 Human Breast Cancer Cells BioMed Research International accepted
3. Saleem, Tayyaba, Aleena Sumrin, Muhammad Bilal, **Hamid Bashir**, and Muhammad Babar Khawar. "Tumor-derived extracellular vesicles: Potential tool for cancer prognosis, diagnosis, and therapy." *Saudi Journal of Biological Sciences* (2022).

4. Bilal, M., H. Bashir, R. Ameen, A. Sumrin, M. Hussain, and S. Manzoor. "Anti HCV activity and expression inhibition of HCC markers by protein extract from *Iberis gibraltarica*." *Brazilian Journal of Biology* 84 (2022).
5. Moeed, Abdul, Arwa Khalid, Sajid Bashir, **Hamid Bashir**, Yasser MSA Al Kahraman, Tariq Ismail, and Muhammad I. Amirzada. "Verapamil hydrochloride nanoparticles formulated with chitosan and sodium alginate by an ionic gelation method." *Tropical Journal of Pharmaceutical Research* 20, no. 6 (2021): 1105-1111.
6. Yasin, Unzila, Muhammad Bilal, **Hamid Bashir**, Muhammad Imran Amirzada, Aleena Sumrin, and Muhammad Hassam Hassan Bin Asad. "Preparation and Nanoencapsulation of Lectin from *Lepidium sativum* on Chitosan-Tripolyphosphate Nanoparticle and Their Cytotoxicity against Hepatocellular Carcinoma Cells (HepG2)." *BioMed Research International* 2020 (2020).
7. Hussain, Manzoor, Afeefa Chaudhry, and **Hamid Bashir**. "Enhance production of alkaline protease by chemical mutagenesis of *Bacillus* species." *BioCell* 43, no. 5 (2019).
8. 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.
9. 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.
10. 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.
11. 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.
12. Hafiza R F C, Ramisha K, Sami U, Muhammad B, **Hamid B**. Immunogenicity of Recombinant Therapeutic Interferon Alpha. *Res & Rev Health Care Open Acc J* 1(3)- 2018. RRHOAJ. MS.ID.000112.
13. 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
14. **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.
15. 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.
16. 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).
17. 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.
18. 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

19. 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
20. 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..
21. 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,
22. 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
23. 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.
24. 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.

RESEARCH GRANTS

- Mutagenesis of *bacillus subtilis* for the high yield Production of alpha amylase by taking cost effective measures funded by University of the Punjab, Lahore
- Development and molecular characterization fusion protein funded by University of the Punjab, Lahore
- Development of potent tumor targeting peptide-cytokines recombinant fusion proteins an alternative cancer therapy:” funded by HEC under the award of NRPU/2021-22.

STUDENTS SUPERVISED/CO-SUPERVISED

- 1) Exosomes Mediated Delivery of Human Recombinant Interlukin-24 for cancer therapy by Ms fardah Farooq (2020-2022).
- 2) Cloning and expression of Pseudomonas Aeruginosa A zurin-BR2 Peptide Fusion Gene in *Escherichia coli* by Ms. Huda Shuaib (2018-2020).
- 3) Cloning and Expression of Human Recombinant Interleukin-24-LK6 Peptide Fusion Gene in *Escherichia coli* by Ms Onaiza Samreen(2018-2020).
- 4) Evaluation of Mosquito Larvicidal and Cytocidal Potential of Parasporin-2 from *Bacillus thuringiensis* through Molecular Docking by Ms Najaf Iftikhar (2018-2020).
- 5) Periplasmic Expression of Human Recombinant Interleukin-24 Gene in *E. coli* by Ms Iram Kafait (2017-2019).
- 6) Isolation and Characterization of Parasporin Protein from *Bacillusthuringiensis* and its Cytotoxicity against HepG2 Cells by Ms Afeefa Chaudhry (2017-2019).
- 7) Chitosan nanoparticles preparation of lectin protein of *Lepidium sativum* and its cytotoxicity against HepG2 cells by Ms UNZILA YASIN (2017-2019).
- 8) Cloning, Expression studies and Purification of Human Interlukin24 (IL-24) Gene by Ms Sara Shaukat Ali (2016-2018).
- 9) Anti cancerous studies of lection from garden cress (*Lepidium sativum*) against hepatocellular

carcinoma HepG2 cells by Ms Beenish tariq (2016-2018).

10) Isolation and Identification of Bacillus species from starchy area of Lahore and evaluation of their alpha-amylase activity through random mutation by Ms Irsa ramzan (2015-2017)

11) Cloning and Expression Studies of Alpha-Amylase from Bacillus Subtilis 168 by Ms Maria aftab (2015-2017).

ACHIEVEMENTS:

Awards and Distinctions

- Award, National Performance Evaluation award of the Year 2016 from worthy Vice Chancellor, University of the Punjab, Lahore Pakistan.
- Award, National Incentive awards of publications for the Year 2016 from worthy Vice Chancellor, University of the Punjab, Lahore Pakistan
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