

CURRICULUM VITAE

MUHAMMAD BILAL

(Research Officer)

Centre for Applied Molecular Biology (CAMB)

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QUALIFICATION:

Ph.D: Molecular Biology (Continued..), University of the Punjab Lahore.

M.Phil: Molecular Biology (University of the Punjab Lahore).

Thesis Title: Molecular Mapping of sugarcane yield and diseases through SSR markers.

MSc. Analytical Chemistry, (B. Z. University Multan)

Thesis Title: Development and validation of an HPLC method for the determination of dexamethasone, dexamethasone sodium phosphate and chloramphenicol in presence of each other in pharmaceutical preparations.

RESEARCH EXPERIENCE:

12 years research experience:

Research during M.Sc (HPLC),

Research Experience at CEMB/CAMB.

M.Phil Research: (PCR, Electrophoresis, Bioinformatics tools)

Areas of expertise are gene cloning and expression studies, PCR, RT-PCR, Fermentation, DNA/RNA/Protein isolation and purification, Protein purification method development, Lyophilization, Western Blotting, Spectroscopy, Chromatography (FPLC, HPLC), Isoelectric focusing, Manufacturing and Quality Control of bio-molecules like Insulin, G-CSF and Interferon, SSR markers studies in plants, Cell Culturing & gene expression studies.

Workshops:

2nd International training workshop on DNA Microarray for gene expression and training workshop on biosafety in biomedical research. (Dated: 7-11 March 2011: Venue; CEMB Lahore, Pakistan).

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. 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.
3. 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
4. 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).
5. 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.
6. Shumaila Moazzam , IrsaRamzan , ZunairaBatoool ,Aleena Ahmad Khan ,Sana Kaleem, Hamid Bashir¹, **Muhammad Bilal**¹, Aleena Sumrin^{1*} (2017). Exosomes as Biomarker of Cancer .Brazilian archives of Biology and Technology Accepted
7. 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.
8. 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.
9. 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.
10. Khan, A., Tabassum, B., Nasir, I. A., **Bilal, M.**, Tariq, M., & Husnain, T. (2015). POTATO VIRUS X FROM PAKISTAN: COAT PROTEIN SEQUENCE ANALYSIS. *JAPS, Journal of Animal and Plant Sciences*, 25(4), 1016-1021.
11. **Bilal, M.**, Saeed, M., Nasir, I. A., Tabassum, B., Zameer, M., Khan, A., Tariq, M., Javed, M. A., & Husnain, T. (2015). Association mapping of cane weight and tillers per plant in sugarcane. *Biotechnology & Biotechnological Equipment*, 29(4), 1-7.

12. Tabassum, B., Sher, Z., Tariq, M., Khan, A., Shahid, N., **Bilal, M.**, Ramzan, M., Iqbal, M. S., Nasir, I. A., & Husnain, T. (2013). Overview of Acquired Virus Resistance in Transgenic Plants. *Experimental Agriculture & Horticulture*, 2(2), 12-28.
13. Khan, S., Attaullah, S., Ayaz, S., Khan, S. N., Shams, S., Ali, I., **Bilal, M.**, & Siraj, S. (2011). Molecular Epidemiology of HCV among the health care workers of Khyber Pakhtunkhwa. *Virology J*, 8(1), 105.
14. Iqbal, M. S., Shad, M. A., Ashraf, M. W., **Bilal, M.**, & Saeed, M. (2006). Development and validation of an HPLC method for the determination of dexamethasone, dexamethasone sodium phosphate and chloramphenicol in presence of each other in pharmaceutical preparations. *Chromatographia*, 64(3-4), 219-222.