

## Proteomics and Functional Genomics

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### Publications:

1. Ateeq, M., Adeel, M.M., Kanwal, A., Tahir ul Qamar, M., Saeed, A., Khaliq, B., Saeed, Q., Atiq, M.N., **Bilal, M.**, Alharbi, M. and Alshammari, A & Akrem, A. (2022). In Silico Analysis and Functional Characterization of Antimicrobial and Insecticidal Vicilin from Moth Bean (*Vigna aconitifolia* (Jacq.) Marechal) Seeds. *Molecules*, 27(10), 3251.
2. Javed, M., **Bilal, M.**, Tabassum, B., Malik, A., Adeyinka, O. S., Tariq, M., & Nasir, I. A. (2022). Purification and functional characterization of lectin from *Chenopodium album*. *Journal of Proteins and Proteomics*, 13(1), 55-62.
3. **Bilal, M.**, Bashir, H., Ameen, R., Sumrin, A., Hussain, M., & Manzoor, S. (2022). Anti HCV activity and expression inhibition of HCC markers by protein extract from *Iberis gibraltarica*. *Brazilian Journal of Biology*, 84.
4. Saleem, T., Sumrin, A., **Bilal, M.**, Bashir, H., & Khawar, M. B. (2022). Tumor-derived extracellular vesicles: Potential tool for cancer prognosis, diagnosis, and therapy. *Saudi Journal of Biological Sciences*.
5. Khaliq, B., Falke, S., Saeed, Q., **Bilal, M.**, Munawar, A., Ali, A., ... & Akrem, A. (2021). *Eruca sativa* seed napin structural insights and thorough functional characterization. *Scientific reports*, 11(1), 1-13.
6. **Bilal, M.**, Tabassum, B., Ali, Q., & Nasir, I. A. (2021). Down regulation of Potato Virus Y (PVY) Coat Protein (CP) expression by *Iberis gibraltarica* protein extract. *Cytology and Genetics*, 55(1), 80-86.
7. Yasin, U., **Bilal, M.**, Bashir, H., Amirzada, M. I., Sumrin, A., & Asad, M. H. H. B. (2020). Preparation and Nanoencapsulation of Lectin from *Lepidium sativum* on Chitosan-Tripolyphosphate Nanoparticle and Their Cytotoxicity against Hepatocellular Carcinoma Cells (HepG2). *BioMed Research International*, 2020.
8. **Bilal, M.**, Nasir, I. A., Tabassum, B., Akrem, A., Ahmad, A., & Ali, Q. (2020). Cytotoxicity and in-vitro antiviral activity of lectin from *crocus vernus* l. Against potato virus Y. *APPLIED ECOLOGY AND ENVIRONMENTAL RESEARCH*, 18(1), 1301-1315.
9. Ramzan, I., Chaudhry, A., Bashir, H., **Bilal, M.**, & Sumrin, A. (2019). Comparative study of alpha amylase producing mutated and unmutated bacillus strains by taking cost effective measures. *Pure and Applied Biology (PAB)*, 8 (2), 1789-1800.
10. **Bilal, M.**, Tabassum, B., Farooq, A. M., Tariq, M., Nasir, I. A., & Hussnain, T. (2019). In-vitro Analysis of *Chenopodium murale* extract for resistance against potato virus Y. *Pure and Applied Biology (PAB)*, 8(2), 1172-1181.

11. 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.
12. 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.
13. Sumrin, A., Moazzam, S., Khan, A. A., Ramzan, I., Batool, Z., Kaleem, S., ... & **Bilal, M.** (2018). Exosomes as Biomarker of Cancer. *Brazilian Archives of Biology and Technology*, 61.
14. 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
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18. 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.
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