

**[DR. BUSHRA TABASSUM, PH. D.]**  
**ASSISTANT PROFESSOR**

**CENTRE OF EXCELLENCE IN MOLECULAR BIOLOGY (CEMB),**  
**UNIVERSITY OF THE PUNJAB,**  
**LAHORE, PAKISTAN.**



# PUBLICATIONS

1. Bhatti MU, Riaz HA, **Tabassum B**, Toufiq N, Khan A, Tariq M, Yousaf I, Ahmad I, Khan MSI, Shahid M, Zameer M and Husnain T. 2016. Epigenetics: Quest for no-escape to HIV, a Persistent Pathogen. Accepted for publication in *Pak. J. Phar. Sci.*
2. A. Hameed, I. A. Nasir, **B. Tabassum**, Z. Qamar, M. Zameer, M. Younus, A. Q. Rao, B. Rashid, M. Tariq, G. A. Khan, M. Ali, M. S. Anjum, S. Ahmed, J. A. Bhatti, T. R. Samiullah and T. Husnain. 2016. Biosafety assessment of locally developed transgenic sugarcane. *The J. Anim. Plant Sci.* 26(4):
3. Ramzan M, **Tabassum B**, Khan A, Tariq M, Awan MF, Nasir IA, Husnain T. 2016. Biological control of cotton leaf curl virus disease in *Gossypium hirsutum* by the application of locally isolated bacterial strains under green-house conditions. *Pakistan Journal of Agricultural Sciences.* (accepted for publication).
4. Awais M, Tariq M, Nasir IA, Khan A, **Tabassum B**, Ali A, Mirza JI and Husnain T. 2016. Isolation and characterization of phosphate solubilizing bacteria from the rhizosphere of sugarcane and rice. *Biocatalysis and Agricultural Biotechnology* (accepted for publication).
5. Zameer M, Zahid H, **Tabassum B**, Ali Q, Nasir IA, Saleem M, Butt SJ. 2016. PGPR Potentially Improve Growth of Tomato Plants in Salt-Stressed Environment. *Turkish Journal of Agriculture - Food Science and Technology* (Accepted for publication).
6. **Tabassum B**, Nasir IA, Khan A, Aslam U, Tariq M, Shahid N and Husnain T. 2016. Short hairpin RNA engineering: In planta gene silencing of potato virus Y. *Crop protection.* 86:1-8.
7. Aslam S, Latif MS, Daud M, Rahman Z, **Tabassum B**, Riaz MS, Khan A, Tariq M and Husnain T. 2016. Crimean-Congo hemorrhagic fever: Risk factors and control measures for the infection abatement (Review). *Biomedical Reports* 4: 15-20.
8. M. Ramzan, **B. Tabassum**, I.A. Nasir, A. Khan, M. Tariq, M.F. Awan, N. Shahid, A.Q. Rao, M. Bhatti, N. Toufiq, and T. Husnain. 2015. Identification and application of biocontrol agents against Cotton Leaf Curl Virus Disease in *Gossypium hirsutum* under greenhouse conditions. *Biotechnology & Biotechnological Equipment* dx.doi.org/10.1080/13102818.2016.1148634.
9. Shahid N, Tahir S, Rao AQ, Hassan S, Khan A, Latif A, Khan MA, **Tabassum B**, Shahid AA, Zafar AU & Husnain T. 2015. Escherichia coli expression of NDV fusion protein gene and determination of its antigenic epitopes. *Biologia* 70/12:1553-1564. DOI: 10.1515/biolog-2015-0191.

10. Khan, A., **B. Tabassum**, I. A. Nasir, M. Bilal, M. Tariq and T. Husnain. 2015. Potato virus X from Pakistan: coat protein sequence analysis. *The Journal of Animal & 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. and Husnain, T. 2015. Association mapping of cane weight and tillers per plant in Sugarcane. *Biotechnology & Biotechnological equipment*, 29(4): 617-623.
12. M. F. Awan, M. A. Abbas, A. Muzaffar, A. Ali, **B. Tabassum**, A. Q. Rao, A. Nasir and T. Husnain. (2015). Transformation of Insect and Herbicide Resistance Genes in Cotton (*Gossypium Hirsutum*)". *Journal of Agricultural Science and Technology*, 17: 275-285.
13. Zahida Qamar, Khadija Aaliya, Idrees Ahmad Nasir, Abdul Munim Farooq, **Bushra Tabassum**, Qurban Ali, Arfan Ali, Mudassar Fareed Awan, Muhammad Tariq and Tayyab Husnain. 2015. An overview of genetic transformation of glyphosate resistant gene in *Zea mays*. *Nature and Science*, 13(3):80-90.
14. Maryam Zameer, Sidra Munawar, **Bushra Tabassum**, Qurban Ali, Naila Shahid, Hassan Bin Saadat and Saman Sana. 2015. Appraisal of various floral species biodiversity from Iskandarabad, Pakistan. *Life Science Journal* 2015;12(3s).
15. Mariyam Zameer, **Bushra Tabassum**, Qurban Ali, Muhamad Tariq, Hina Zahid, Idrees Ahmad Nasir, Waheed Akram and Mujtaba Baqir. 2015. Role of PGPR to improve potential growth of tomato under saline condition: An overview. *Life Science Journal* 2015; 12(3s).
16. Zameer M, Mahmood S, Mushtaq Z, **Tabassum B**, Ali Q, et al. (2015). Detection of bacterial load in drinking water samples by 16s rRNA ribotyping and RAPD analysis. *Adv. Life Sci.* 2(3). pp: 135-141.
17. Ali, S., Nasir, I.A., Ali, A., Aslam, U., Farooq, A.M., Tariq, M., **Tabassum, B.**, Qamar, Z., Rao, A.Q. and Husnain, T. 2014. Genetic variability in coat protein gene of Sugarcane mosaic virus in Pakistan and its relationship to other strains. *African Journal of Biotechnology*. 12(39): 3950-3960.
18. Dar, A.I., Saleem, F., Ahmad, M., Tari, M., Khan, A., Ali, A., **Tabassum, B.**, Ali, Q., Khan, G.A., Rashid, B., Nasir, I.A., Husnain, T. 2014. Characterization and efficiency assessment of PGPR for enhancement of rice (*Oryza sativa* L.) yield. 2014. *Advancement in Life Sciences*. 2(1): 38-45.
19. Qamar, Z., Hossain, Md.B., Nasir, I.A., **Tabassum, B.** and Husnain, T. 2014. In vitro development of Cauliflower synthetic seeds and development of plantlets in vivo. *Plant Tissue Cult. & Biotech.* 24(1): 27-36.
20. Nasir, I.A., **Tabassum, B.**, Qamar, Z., Javed, M.A., Tariq, M., Farooq, A.M., Butt, S.J., Qayyum, A. and Husnain, T. (2014). Herbicide-tolerant sugarcane (*Saccharum officinarum* L.) plants: An unconventional way of weed removal. *Turkish journal of Biology*. 38: 439-449.

21. **Tabassum, B.** Sher, Z., Tariq, M., Khan, A., Shahid, N., Bilal, M., Ramzan, M., Iqbal, M.S., Nasir, I.A. and Husnain, T. (2013). Overview of Acquired Virus Resistance in Transgenic Plants. *Experimental Agriculture & Horticulture*. Vol. 2(2): 12-28.
22. Ahmed, S., Nasir, I.A., Yaqub, T., Waseem, M., **Tabassum, B.**, Masood, F., Khan, A., Butt, S.J. and Husnain, T. 2013. Molecular detection, phylogenetic analysis and designing of siRNA against Potato Virus X. *Advancement in Life Sciences*, 1(1): 37-44.
23. Nasir, I.A., Jamal, A., **Tabassum, B.** and Husnain, T. (2013). Regeneration response from old cell suspension cultures of gladiolus. *Experimental Agriculture & Horticulture*. Vol. 2(2): 1-11.
24. Hossain, M.B., Nasir, I.A., **Tabassum, B.** and Husnain, T. (2013). Molecular characterization, cloning and sequencing of coat protein gene of a Pakistani potato leaf roll virus isolate and its phylogenetic analysis. *African Journal of Biotechnology* Vol. 12(11), pp. 1196-1202.
25. Iftikhar, S., Shahid, A.A., Javed, S., Nasir, I.A., **Tabassum, B.** and Haider, M.S. (2013). Essential oils and latices as novel antiviral agent against potato leaf roll virus and analysis of their phytochemical constituents responsible for antiviral activity. *Journal of Agricultural Science*; Vol. 5(7): 167-188.
26. Jamal, A., Nasir, I.A., **Tabassum, B.**, Tariq, M., Farooq, A.M., Qamar, Z., Khan, M.A., Ahmad, N., Shafiq, M., Haider, M. S., M.J. and Husnain, T. (2012) Molecular characterization of capsid protein gene of potato virus X from Pakistan. *African Journal of Biotechnology* Vol. 11(74), pp. 13854-13857.
27. Farooq, A.M., Nasir, I.A., **Tabassum, B.**, Tariq, M., Qamar, Z., Khan, M.A., Ahmad, N., Shafiq, M., Haider, M.S., Javed, M.A. and Husnain, T. 2012. Development and comparative studies of double cross tomato hybrids. *African Journal of Agricultural Research*. 7(37): 5259-5264.
28. **Bushra, T.**, Nasir, I. A. and Husnain, T. (2011). Potato Virus Y mRNA Expression Knockdown Mediated by siRNAs in Cultured Mammalian Cell Line. *Virologica Sinica*. 26 (2):105-113.
29. Nasir, I. A., **Bushra, T.**, Haider, M. S. and Javed, M. A. Husnain, T. (2010). Strategies to control Potato Virus Y under in vitro conditions. *Pakistan J. Phytopath.* 22 (1):63-70.
30. Farooq, A. M., Nasir, I. A., **Bushra, T.**, Javed, M. A and Husnain, T. (2010). Androgenesis induction, Callogenesis, Regeneration and Cytogenetic studies of tomato haploid. *Journal of Agri. Research*. 48 (4):457-470.
31. **Bushra, T.**, Nasir, I. A. Farooq, A. M., Rahman, Z. and Husnain, T. (2010). Viability assessment of in-vitro produced synthetic seeds of cucumber. *African Journal of Biotechnology*. 9 (28):7026-7032.
32. **Tabassum, B.**, Saleem, M. and kausar, T. (2003). Biodegradation of agrowaste by *Trichoderma viride* mutants. *Science (Int.) Lahore*, 15(1); 97-102.

## **Book Chapter**

- **Tabassum, B**, Nasir, I. A., Aslam, U. and Husnain, T. (2012). How RNA Interference Combat Viruses in Plants. P: 113-130. In Functional Genomics (Editors: Meroni, G. and Peterera, F.) Published by InTech JanezaTrdine 9, 51000 Rijeka, Croatia.
- **Tabassum, B**, Nasir, I. A. and Husnain, T. (2016). Bio Techniques: Quest for stress tolerant sugarcane. Accepted for publication in Sugarcane Biotechnology Book published by Taylor & Francis.