Dr. MUHAMMAD TARIQ MANZOOR

Assistant Professor

RESEARCH PUBLICATIONS

PAPERS PUBLISHED

Aamir Manzoor, Irfan Ali Sabir, Iftikhar Hussain Shah, Muhammad Azam, Muhammad Usman, M. Sanaullah Malik, Abdul Rehman, Asad Rehman, Ghulam Murtaza, Muhammad Khalid, Gulbeena Saleem, **Muhammad Tariq Manzoor***, Cheng Song "Vanadium in Soil-Plant Systems: Uptake Mechanisms, Ecotoxicological Impacts, and Microbial Remediation Strategies" Land Degradation & Development volume 22,2025, Doi:https://:10.1002/idr.70401[IF: 3.7; HJRS: W]

Arsalan Ahmad,**Muhammad Tariq Manzoor**,Muhammad Shafiq, Muhammad Mudasar,MuskanAmjad,Sajid Ali,MubeenSarwar,Muhammad Shafiq Sh ahid.,"ANovel Method to Classify and Study Chickpea Chlorotic Dwarf Virus (CpCDV) Strains Based on Evolutionary Diversity and Cis-Regulatory Elements (CRE)" Journal of Phytopathology, 2025; 173:e70156 1 of 14 https://doi.org/10.1111/jph.70156. [IF:1.6; HJRS: W].

Sajid Ali., Adnan Zahid, Ammara Fatima, Muhammad Bilal Chatha, **Muhammad Tariq Manzoor**,Memoona Aziz,Aamir Shehzad,Ahmad Raza,Nauman Shafqat,(2025). "Influence of Intercropping Systems on Growth Traits and Yield Components of Chickpea,Linseed,and Wheat"Plant Bulletin Vol.4,(2)2025-210-225.ISSN:2959-3379.

Sumreen Anjum, Mubeen Sarwar , QurbanAli, Muhammad Waqar Alam, **MuhammadTariq Manzoor**, Adnan Mukhtar.,"Assessment of bioremediation potential of Calotropis procera and Nerium oleander for sustainable management of vehicular released metals in roadside soils" ScientificReports volume 14,Article number: 8920 (2024) https://doi.org /10.1038/s41598-024-58897-9.

Jannat Akram, Naeem N , **Muhammad Tariq Manzoor**, Qurban Ali , Marwat Ua , Zia T., "Role Of Modern Biotechnology In Improving Crop Protection" Bulletin Of Biological And Allied Sciences Research ISSN: 2521-0092 Www.Bbasr.Org DOI: Https://Doi.Org/10.54112/Bbasr.V2025i1.100 Bull. Biol. All. Sci. Res., Volume, 10: 100. [IF: NIL; HJRS: Y]

Iqra Shakeel,Muhammad Khurshed,**Muhammad Tariq Manzoor**,Sajid Ali,Adnan Akhtar,Waheed Anwar,Zain Mushtaq,Muhammad Taqi Abbas"Biochar improves tomatoes growth challenged with khokhran virus infection'' Biological and Clinical Sciences Research Journal eISSN: 2708-2261; p, ISSN: 2958-4728 www.bcsrj.com DOI: https://doi.org/10.54112/bcsrj.v2024i1.810 Biol. Clin. Sci. Res. J., Volume, 2024: 810.

Tabarak,M.,Jannat,A.,Riffat,S.,Muhammad,S.,Bushra,T., **Muhammad Tariq Manzoor,**Muhammd,AJ.,Samia,A.,BaderUnNisa,Muhammad,HS.,Bilal, J.,AbdElZaher,M.A.M.,Baber,A., "Genome-wide identification of CCO gene family in cucumber (Cucumis sativus) and its comparative analysis with A. thaliana". BMC Plant Biology journal, Nov 29, 2023. https://doi.org/10.1186/s12870-023-04647-4 (Impact Factor = 5.26).

Mehr-ul-Nisa,Muhammad,S.,Mujahid M., Muhammad B.,**Muhammad Tariq Manzoor**,MuhammadA.,Malik,MA.,Muhammad,R.,Muhammad,ZH.,Adnan,S.,Muhammad,SH., "Genome-wide Analysis of Plant Specific YABBY Transcription Factor Gene Family in Watermelon (Citrullus lanatus) and Arabidopsis". 21-10-2023. Appl. Res Plant Sci. Vol. 5(1), 63-78, 2024 https://doi.org/10.38211/joarps.2024.05.179 (HEC Y).

Iqbal,MJ.,Zia,M.,IlyasM.,Hameed,U,Hans,WH.,NomatterC,**Muhammad Tariq Manzoor**,Haider,MS.,Judith K. Brown,*(2023). "Sentinel plot surveillance of cotton leaf curl disease in Pakistan- a case study at the cultivated cotton-wild host plant interface".Virus Research journal,2023333 https://doi.org/10.1016/j.virusres.2023.199144 (Impact Factor = 6.286).

Fatima, S., Cheema, K., Shafiq, M **Muhammad Tariq Manzoor**, Ali, Qurban, Haider, MS., & Shahid, M. (2023). "The Genome-wide bioinformatics analysis of 1-aminocyclopropane-1-carboxylate synthase (acs), 1-aminocyclopropane-1-carboxylate oxidase (aco) and ethylene overproducer 1 (eto1) gene family of fragaria vesca (woodland strawberry)". Bulletin of Biological and Allied SciencesResearch, 2023(1),38.https://doi.org/10.54112/bbasr.v2023i1.38.

Rabia M., Khan M.,Manzoor M.,*Shafiq M.,Bilal M., **Muhammad Tariq Manzoor**,Ali M., Mazhar HS., Hashmi M., Anees M.,Rizwan M.,Haider MS.,(2023). "Genome-Wide Analysis of the Ethylene-Insensitive3-Like Gene Family in Cucumber (Cucumis sativus) ". Journal of Applied Research in Plant Science.Vol. 4(2),702-710, 2023, https://doi.org/10.38211/joarps.2023.04.02.178.

Muhammad Tariq Manzoor, Sajid Ali, Ammara Fatima, Muhammad Rizwan Tariq, Qurban Ali, Muhammad Shafiq, M.A. Iqbal, Adnan Zahid and Adil Hussain. 2022. Analyzing local spinach plant diversity using the RPOC1 and matK DNA barcode technique. Pakistan Journal of Agricultural Sciences 59:1029-1034. https://doi.org/10.21162/PAKJAS/22.48 **(Impact Factor = 0.856, HEC = X category).**

Muhammad Atif, Farman Ahmad,**Muhammad Tariq Manzoor**, Gilani K, Qurban Ali, Mubeen Sarwar M, Sambreen Anjum, Muhammad Waqar Alam,Adil Hussain,Nida Rafaqat (2022). Diversity, mutation and phylogenetic analysis of pepper leaf curl lahore virus and pepper leaf curl bangladesh virus infecting chilli crop. Biol. Clin. Sci. Res. J 2022: 112. doi: https://doi.org/10.54112/bcsrj.v2022i1.112

Muhammad Atif, Farman Ahmad,**Muhammad Tariq Manzoor**, Gilani K, Qurban Ali, Mubeen Sarwar M, Sambreen Anjum, Muhammad Waqar Alam,Adil Hussain, Haider MS (2022). Comparative evolutionary and recombination analysis of chickpea chlorotic dwarf virus (CPCDV)

infecting malvaceous and fabaceous plants. Biol. Clin. Sci. Res. J 2022: 117. doi: https://doi.org/10.54112/bcsrj.v2022i1.117

Muhammad Atif, Farman Ahmad,**Muhammad Tariq Manzoor**, Gilani K, Qurban Ali, Mubeen Sarwar M, Sambreen Anjum, Muhammad Waqar Alam,Adil Hussain (2022). Application of bioinformatics tools to check mutation and evolution potential of chickpea cholorotic dwarf virus (CpCDV) infecting cotton and host plants. Biol. Clin. Sci. Res. J 2022: 116. doi: https://doi.org/10.54112/bcsrj.v2022i1.116

Muhammad Atif, Farman Ahmad,**Muhammad Tariq Manzoor**, Gilani K, Qurban Ali, Mubeen Sarwar, Sambreen Anjum, Muhammad Waqar Alam,Adil Hussain (2022). Comparative genomic, missing and evolutionary analysis of chickpea chlorotic dwarf virus (CPCDV) infecting food crops and wild host plants. Biol. Clin. Sci. Res. J 2022: 115. doi: https://doi.org/10.54112/bcsrj.v2022i1.115

Muhammad Atif, Farman Ahmad,**Muhammad Tariq Manzoor**, Gilani K, Qurban Ali, Mubeen Sarwar M, Sambreen Anjum, Muhammad Waqar Alam,Adil Hussain, Rafaqat N (2022). Comparative evolutionary study of chickpea chlorotic dwarf virus (CPCDV) infecting cotton and chickpea. Biol. Clin. Sci. Res. J 2022: 113. doi: https://doi.org/10.54112/bcsrj.v2022i1.113

Muhammad Atif, Farman Ahmad,**Muhammad Tariq Manzoor**, Gilani K, Qurban Ali, Mubeen Sarwar M, Sambreen Anjum, Muhammad Waqar Alam,Adil Hussain, Rafaqat N (2022). Diversity, mutation and recombination analysis of chilli infecting potyviruses form Southeast Asia and China. Biol. Clin. Sci. Res. J 2022: 111. doi: https://doi.org/10.54112/bcsrj.v2022i1.111

Javed, A., Muhammd, S., Qurban Ali, & **Muhammad Tariq Manzoor**, (2022). An overview of leaf rust resistance genes in Triticum aestivum. Bulletin of Biological and Allied Sciences Research, 7(1), 26. https://doi.org/10.54112/bbasr.v2022i1.26 (HEC = No).

Ishtiaq, M., Atif, **Muhammad Tariq Manzoor**, Mubeen Sarwar, & Nida Rafaqat, (2019). Analysis of different allelopathic plant extracts and fungal metabolites on rice to control rice grain discoloration. Bulletin of Biological and Allied Sciences Research, 2019(1), 28. https://doi.org/10.54112/bbasr.v2019i1.28(HEC = No).

Muhammad Atif, U Bashir, **Muhammad Tariq Manzoor**, N Rafaqat, MW Alam, M Sarwar, S Anjum, TA Chohan, A Hasnain (2022). Diversity, mutation and recombination analysis of chilli infecting geminiviruses from the Indian Subcontinent. *Intl J Biosciences* 20(5): 23-36.

Nida Rafaqat,**Muhammad Tariq Manzoor** , Muhammad Ashfaq , Muhammad Ali , Muhammad Sajjad , Muhammad Sabir& Ayesha Bibi.(2021) Morphological and Biochemical Characterization of Xanthomonas oryzae pv oryzae isolates from Punjab, Pakistan. Biologia (Lahore) Pkissn 0006 – 3096 (Print) June, 2021, 67 (I), Online ISSN 2313 – 206X (On-Line).

Muhammad Rizwan Afzal, **Muhammad Tariq Manzoor**, Sajid Ali, Ammara Fatima , Sadia Nawaz , Muhammad Rizwan Tariq , Moazzam Anees , Muhammad Atif , Nida Rafaqat and Ahmad Ali Shahid.(2021). Gene Expression Evaluation of Multigenic Cotton (Gossypium hirsutum) against Cotton Leaf Curl Virus. International Journal Of Agriculture & Biology ISSN Print: 1560–8530; ISSN Online: 1814–9596 21–0025/2021/26–1–169–176 DOI: 10.17957/IJAB/15.1821

Muhammad Atif, **Muhammad Tariq Manzoor,** Uzma Bashir, Nida Rafaqat and Muhammad Saleem Haider.(2020) Diversity, mutation and recombination analysis of Chickpea chlorotic dwarf virus infecting lentil.Mycopath.

Muhammad Shafiq,Mukhtar Ahmad,Ayesha Nisar,**Muhammad Tariq Manzoor**,Arslan Abid,Sehrish Mushtaq,Adeel Riaz,Muhammad Ilyas,Waseem Sarwar,Muhammad Shah Nawaz ul Rehman,Saleem Haider,Ayesha Younus,Muhammad Mubin (2019).Molecular characterization and phylogenetic analysis of tomato leaf curl Palampur

virus, a bipartite begomovirus, associated with Cucumis sativus L. in Pakistan, Biotech (2019) 9:204.

Muhammad Shafiq, Saima Arif, Ayesha Bibi, Muhammad Ali, Muhammad Saleem Haider, Muhammad Ashfaq, Shahbaz Ahmad, **Muhammad Tariq Manzoor**, Muhammad Shahzad, Asma Tanveer and Aleem Ahmad (2016). Detection and Geographical Distribution of Wolbachia Endosymbiont in the Natural Populations of Cotton Leafhopper, (*Amrasca devastans*) in Pakistan. Pakistan Entomologist.

Ayesha Bibi, Muhammad Shafiq, Saima Arif, Asma Tanveer, **Muhammad Tariq Manzoor**, and Muhammad Saleem Haider. (2016). First report of the molecular characterization of the endosymbiont *Candidatus protiera aleyrodidarum* from cotton whiteflies collected from Pakistan. International Journal of Agriculture & Biology, Vol. 18 No. 2: 282-285. (Impact Factor: 0.902).

Muhammad Tariq Manzoor. Muhammad Ilyas. Muhammad Shafiq. Muhammad Saleem Haider. Rob W Briddon. (2014). Identification of a new strain of Chickpea chlorotic dwarf virus (a Mastrevirus) in leaf curl diseased cotton plants, archive of virology, 2014. (Impact factor: 2.390).

Muhammad Tariq Manzoor. Amna Shoaib, Rukhsana Bajwa. (2009). Nickel and Copper removal by chemically treated biomass of Rhizopus arrhizus. Pakistan Journal of Phytopathology, Vol. 21 No 1: 45-48.

Muhammad Tariq Manzoor. Amna shoaib. Rukhsana Bajwa. (2012). Mycoremediation of Copper and Nickel. African Journal of Microbiology Research, Vol 6 No 2: 236-244.

Amna shoaib,**Muhammad Tariq Manzoor**. Rukhsana Bajwa. (2011). Biosorption of heavy metals by pretreated biomass of *Aspergillus niger*. Pakistan Journal of Botany, Vol. 43 (1): 419-425.

BOOK CHAPTER PUBLISHED

Sajid Ali., Adnan Zahid, Ammara Fatima, Mukhtar Ahmad, **Muhammad Tariq Manzoor**, Asma A., Ahmad R. and Nauman S.,(2023).

"Harnessing Soil Potential: Innovation in Strategic Tillage and ManagementNewPerspectives"http://dx.doi.org/10.5772/intechopen.113036

Jannat Akram, Muhammad Z. H., Muhammad Shafiq, Adnan S., **Muhammad Tariq Manzoor**., Sajid Ali, Muhammad Saleem Haider, Muhammad Adnan S., and Riffat S.,2024 "Cell Signaling Response Under Plants Stress" https://link.springer.com/chapter/10.1007/978-981-97-1699-9_20.

BOOKS PUBLISHED

Muhammad Tariq Manzoor, Amna Shoaib, and**,** Rukhsana Bajwa R**. (2011)**. Biosorption of electroplating heavy metals by fungi. VDM Verlag Dr. Muller GmbH & Co. KG Dudweiler Landstr. 99, 66123 Saarbrucken, Germany, **ISBN**: 978-3-639-35883-4.

Waheed Anwar, Ayesha Bibi, and **Muhammad Tariq Manzoor,(2011)**. Production of Alpha Amylase from *Aspergillus niger*. **ISBN:** 978-3-639-38016-3, paperback, 52 Pages. **Publisher:** VDM Verlag Dr. Muller GmbH & Co. KG Dudweiler Landstr.99,66123 Saarbrucken, Germany.

ABSTRACTS PUBLISHED

Muhammad Tariq Manzoor, Muhammad Shafiq, Moazzam Anees, Dr Shahbaz Ahmad, Sajid Ali, Muhammad Saleem Haider. Chickpea Chlorotic Dwarf Virus Coat Protein Gene Expressive Effects Against Host Species.

Muhammad Tariq Manzoor, Muhammad Shafiq, Muhammad Saleem Haider, Ayesha Bibi.Dissecting plant Diversity in a local Punjab flora using the matK DNA barcode

Muhammad Tariq Manzoor, Muhammad Ilyas, Muhammad Shafiq, Muhammad Saleem Haider, Ayesha Bibi, Sehrish Mushtaq. Infectivity analysis of strain F of chickpea chlorotic dwarf virus (mastrevirus) isolated from cotton in Nicotiana benthamiana plants

Waheed Anwar, Salik Nawaz khan,Ayesha bibi, **Muhammad Tariq Manzoor**, Muhammad Ilyas, Muhammad Shafiq, Muhammad Saleem Haider, Ayesha Bibi, Sehrish Mushtaq. Effects of humic acid and foliar NPK in potato fields. Proc: