

Curriculum Vitae

Dr. Qurban Ali



Personal Profile

Father's Name: Muhammad Shafi

Postal Address:

Nai Abadi Kot Ameer Baz Khan, Street Aziz Gujar Wali, Teh. & Distt. Kasur, Pakistan

Cell: +92 (0) 321-9621929, +92 (0) 300-7579756

Email: saim1692@gmail.com, qurbanali.pbg@pu.edu.pk

Skype ID qurban.ali733

Official Address:

Department of Plant Breeding and Genetics, Faculty of Agricultural Sciences, University of the Punjab Lahore

HEC Approved Supervisor: Yes

Cumulative Impact Factor: 350

Awards: Research Productivity as eminent Researcher of the year awards for consecutive five years 2019, 2020, 2021 from University of Lahore, Lahore, Pakistan and 2022, 2023 from University of the Punjab Lahore, Pakistan

Working Experience

Position	Institute/University	Period (m/dd/yyyy)	
		From	To
Assistant Professor	Department of Plant Breeding and Genetics, Faculty of Agricultural Sciences, University of the Punjab Lahore	30-05-2022	-
Associate Professor	Institute of Molecular Biology and Biotechnology, University of Lahore, Lahore	02/01/2022	30-05-2022
Assistant Professor	Institute of Molecular Biology and Biotechnology, University of Lahore, Lahore	09/11/2017	01/31/2022
Post-Doctoral Research Associate	Centre of Excellence in Molecular Biology, University of the Punjab, Lahore Pakistan	06/24/2015	12/31/2017
Assistant Professor	Centre of Excellence in Molecular Biology, University of the Punjab, Lahore Pakistan	06/19/2014	06/23/2015
Research Associate	Centre of Excellence in Molecular Biology, University of the Punjab, Lahore Pakistan	02/01/2013	06/18/2014
National Internship Program	EDOR Faisalabad	06/06/2009	06/05/2010
B.Sc. (Hons.) Internship	Sugarcane Research Institute, Ayub Agriculture Research Institute, Faisalabad, Pakistan	Feb-2007	June-2007

Educational Background

Name of Examination Passed	Institution/Board/ University	Date of obtaining Certificate/ Degree	Major Subject
SSC	Board of Intermediate & Secondary Education, Lahore	06/30/2000	Science
HSSC	Board of Intermediate & Secondary Education, Lahore	08/31/2002	Pre-Medical
B.Sc. (Hons.)	University of Agriculture Faisalabad	07/09/2007	Plant Genetics
M.Sc. (Hons.)	University of Agriculture Faisalabad	09/03/2009	Plant Genetics

PhD	University of Agriculture Faisalabad	05/23/2014	Plant Genetics
-----	--------------------------------------	------------	----------------

✚ **PhD Research title**

Genetic evaluation of maize (Zea mays L.) accessions for grain and fodder yield.

✚ **M.Sc. (Hons.) Research title**

Estimation of genetic variability and trait association in chickpea (Cicer arietinum L.) genotypes.

Expertises

- ✚ Web site designing and development
- ✚ Illumina Sequencing
- ✚ Sangar sequencing
- ✚ Metaproteomics data analysis
- ✚ Flourscent Microscopy
- ✚ Microarray
- ✚ DNA/RNA Extraction
- ✚ cDNA Synthesis
- ✚ Q-PCR,
- ✚ RT-PCR
- ✚ qRT-PCR data analysis
- ✚ Cloning
- ✚ Transformation in *E. coli*, *Pichia* and Plants (Gene gun & *Agrobacterium* method)
- ✚ Protein Purification
- ✚ Western Blotting
- ✚ X-ray crystallography
- ✚ Confocal Microscopy
- ✚ Flow Cytometry
- ✚ Analytical biochemical assay (HPLC, GC)
- ✚ spectroscopy

Statistical Approach

Analysis of variance techniques, Least significant difference tests, Genetic components analysis, simple correlation, Genotypic correlation, phenotypic correlation, environmental correlation, regression analysis, path coefficient analysis, principle component analysis, biplot analysis, line × tester analysis, diallel analysis, combining ability analysis. I have expertise in biostatistics and well trained in using Microsoft Excel, SPSS-16.0, Minitab-16.1, Genstat-12, Tassel-5, Network-5.0.0, Structure-2.3.4, PopGene.S2, Ultra Edit, TBtools-II, MEGA11 and Statistix-8.1 software applications

Computer skills

- ✚ Windows
- ✚ Microsoft Office (Word, Excel, PowerPoint)
- ✚ Internet (Web site designing and development)
- ✚ All kinds of general purpose Hardware & Software

Linguistic approach

- ✚ English (Good in Reading, Writing, Speaking, Listening)
- ✚ Urdu (Good in Reading, Speaking, Listening)
- ✚ Punjabi (Good in Speaking, Listening)

Citation indices up to 2025 February

<u>Citation indices</u>	All	Since 2020
<u>Citations</u>	7329	5097
<u>h-index</u>	45	35
<u>i10-index</u>	184	138

Students supervised

1. M.Phil: 45
2. PhD: 2

* = Indicated as corresponding author of publication

Some important Publications

1. Anjum, Sumreen, Mubeen Sarwar, Adnan Mukhtar, Tanveer Hussain, Mehwish Liaquat, Alia Batool, Muhammad Waqar Alam, **Qurban Ali***, and M. Irfan Ashraf. (2025). *Impact of rhizobacterial inoculation in plant growth medium to mitigate lead stress in Tomato (Solanum lycopersicum L.)*. *Scientific Reports* 15, no. 1: 707. <https://doi.org/10.1038/s41598-024-84648-x> (**Impact Factor = 3.84, HEC = W category**); Nature Publishing Group, London
2. Khalid, Namra, Muhammad Umer Khan, Raima Rehman, Shamsa Kanwal, Tazeen Zahid, Muhammad Usman Ghani, Ayesha Iftikhar, **Qurban Ali***, and Muhammad Arshad Javed (2025). *Unraveling the genetic connections for mitochondrial DNA control region and breast cancer susceptibility*. *Sci Rep* 15, 4821 (2025). <https://doi.org/10.1038/s41598-025-89115-9> **Impact Factor = 3.84, HEC = W category**); Nature Publishing Group, London
3. Ibrahim, Saooda, Muhammad Umer Khan, Saadia Noreen, Safia Firdous, Iqra Khurram, Raima Rehman, Muhammad Arshad Javed, and **Qurban Ali***. (2025). *Advancing brain tumor therapy: unveiling the potential of PROTACs for targeted protein degradation.* *Cytotechnology* 77, no. 2 (2025): 54. <https://doi.org/10.1007/s10616-025-00716-8> (**Impact Factor = 2.0, HEC = W category**); Nature Publishing Group, London
4. Arshad, Samreen, Muhammad Luqman Qadir, Nazim Hussain, **Qurban Ali***, Shiming Han, and Daoud Ali. (2025). *Advances in CRISPR/Cas9 technology: shaping the future of photosynthetic microorganisms for biofuel production*. *Functional Plant Biology* 52, no. 2 (2025). FP24255 <https://doi.org/10.1071/FP24255> (**Impact Factor = 2.60, HEC = W category**); CSIRO Publishing Group, Australia
5. Rasheed, Muhammad Umar, Aiman Malik, Muhammad Zeshan Haider, Adnan Sami, Muhammad Shafiq, **Qurban Ali**, Muhammad Arshad Javed, and Ansar Ali. (2025). *NPRI-like genes in Theobroma cacao: Evolutionary insights and potential in enhancing resistance to Phytophthora megakarya*. *PLoS one* 20, no. 2: e0318506. <https://doi.org/10.1371/journal.pone.0318506> (**Impact Factor = 2.90, HEC = W category**); Plos Publishing Group, USA
6. Muhammad Akram Shahzad Khokhar, Malik Ihsan Ullah Khan, Arif Malik, Haleema Saadia, Gul Zaib, **Qurban Ali**, (2025). *Exploring phytochemical interventions targeting Cyclin-D, MELK, and LUZP in triple-negative breast cancer: in-vitro and in-silico approach*. *Modern Phytomorphology*, 19: 336 – 350. (**Impact Factor = 0.03, HEC = X category**) <https://doi.org/10.5281/zenodo.200121>
7. Muhammad Akram Shahzad Khokhar, Malik Ihsan Ullah Khan, Arif Malik, Haleema Saadia, Gul Zaib, **Qurban Ali**, (2025). *Molecular insights into phytochemical-protein interactions: A paradigm shift in breast cancer therapy*. *Modern Phytomorphology*, 19: 336 – 350. (**Impact Factor = 0.03, HEC = X category**) <https://doi.org/10.5281/zenodo.200121>
8. ***Qurban Ali**, Sami, A., Haider, M.Z. Muhammad Ashfaq, Muhammad Arshad Javed. *Antioxidant production promotes defense mechanism and different gene expression level in Zea mays under abiotic stress*. *Sci Rep* 14, 7114 (2024). <https://doi.org/10.1038/s41598-024-57939-6> (**Impact Factor = 4.996, HEC = W category**); Nature Publishing Group, London
9. Bhatti MHT, Han S, Sami A, Haider MZ, Shafiq M, Ali M, Ahmad S, **Qurban Ali***, Sabir IA, Manzoor MI. (2024). *Genome-wide analysis of XTH gene family in cucumber (Cucumis sativus) against different insecticides to enhance defense mechanism*. *Plant Stress*, Volume 13, 2024, 100538. <https://doi.org/10.1016/j.stress.2024.100538>. (**Impact Factor = 6.8, HEC = X category**)

10. Arsalan Ahmad, Shiming Han, Adnan Sami, Muhammad Zeshan Haider, ***Qurban Ali**, Muhammad Shafiq, Daoud Ali, Javaid Iqbal, Muhammad Aamir Manzoor, Irfan Ali Sabir, Yuexia Wang. *Genome-wide identification of Cytochrome P450 gene in Fall Armyworm (*Spodoptera frugiperda*) in response to insecticide resistance*, *Plant Stress*, Volume 14, (2024), 100579. <https://doi.org/10.1016/j.stress.2024.100579> (Impact Factor = 6.8, HEC = X category)
11. Awan MF, Ali S, Sarwar MF, Shafiq M, Arif U, **Qurban Ali***, et al. (2024) *Over expression of modified Isomaltulose Synthase Gene II (ImSyGII) under single and double promoters drive unprecedented sugar contents in sugarcane*. *PLoS ONE* 19(11): e0311797. <https://doi.org/10.1371/journal.pone.0311797> (Impact Factor = 3.2, HEC = W category)
12. Naeem, S., Wang, Y., Han, S. MZ Haider, A Sami, M Shafiq **Qurban Ali*** et al. *Genome-wide analysis and identification of Carotenoid Cleavage Oxygenase (CCO) gene family in coffee (coffee arabica) under abiotic stress*. *BMC Genom Data* 25, 71 (2024). <https://doi.org/10.1186/s12863-024-01248-4> (Impact Factor = 1.9, HEC = X category); Nature Publishing Group, London
13. Amjad, M., Wang, Y., Han, S. S. MZ Haider, A Sami, Batool, A. M Shafiq **Qurban Ali*** et al. (2024). *Genome wide identification of phenylalanine ammonia-lyase (PAL) gene family in Cucumis sativus (cucumber) against abiotic stress*. *BMC Genom Data* 25, 76 (2024). <https://doi.org/10.1186/s12863-024-01259-1> (Impact Factor = 1.9, HEC = X category); Nature Publishing Group, London
14. Ishfaq Q, Sami A, Zeshan Haider M, Ahmad A, Shafiq M, **Qurban Ali***, Batool A, Haider MS, Ali D, Alarifi S, Islam MS and Manzoor MA (2024). *Genome wide identification of the NPR1 gene family in plant defense mechanisms against biotic stress in chili (*Capsicum annum L.*)*. *Front. Microbiol.* 15:1437553. <https://doi.org/10.3389/fmicb.2024.1437553> (Impact Factor = 4.0, HEC = W category)
15. Khan, M.U., Zahid, T., Sabar, M.F. Masoo, T. **Qurban Ali***, Han S. Ahmad, A.. *Ethnogenetic analysis reveals the Bronze Age genetic affiliation of Yashkuns with West Eurasians*. *Sci Rep* 14, 31414 (2024). <https://doi.org/10.1038/s41598-024-83136-6> (Impact Factor = 4.996, HEC = W category); Nature Publishing Group, London
16. Kalsoom, A., Altaf, A., Sarwar, M. T. Maqbool, MAB Ashraf, H Sattar, G. Shabbir, **Qurban Ali***, MA Arshad. *GC-MS analysis, molecular docking, and apoptotic-based cytotoxic effect of Caladium lindenii Madison extracts toward the HeLa cervical cancer cell line*. *Sci Rep* 14, 18438 (2024). <https://doi.org/10.1038/s41598-024-69582-2> (Impact Factor = 4.996, HEC = W category); Nature Publishing Group, London
17. Suddal, T., Awan, M.F., Ali, S. Sarwar MS, Iqbal S, **Qurban Ali***, et al. *Target prediction of potential candidate miRNAs from *Oryza sativa* to silence the *Pyricularia oryzae* genome in rice blast*. *Sci Rep* 14, 21813 (2024). <https://doi.org/10.1038/s41598-024-72608-4> (Impact Factor = 4.996, HEC = W category); Nature Publishing Group, London
18. Khan, M.U., Sakhawat, A., Rehman, R. Wali AH, Ghani MU, Areeba A, Javed MA, **Qurban Ali*** et al. *Identification of novel natural compounds against CFTR p.Gly628Arg pathogenic variant*. *AMB Expr* 14, 99 (2024). <https://doi.org/10.1186/s13568-024-01762-9> (Impact Factor = 3.50, HEC = W category); Nature Publishing Group, London
19. Sardar, S., Rahman, A.U., Khan, B. MA Khan, MK Iqbal, M Hasnain, NZ Khan MA Javed, **Qurban Ali***. *Vaccinium macrocarpon Based Fe-Doped Zno Nanoparticles as an Alternate Against Resistant *Uropathogens**. *BioNanoSci.* (2024). <https://doi.org/10.1007/s12668-024-01576-w> (Impact Factor = 3.00, HEC = W category); Nature Publishing Group, London
20. Isha Zafar, Munazzah Malik, Mian Muhammad Mubasher, Muhammad Tariq, **Qurban Ali***, Ajaz Ahmad, Muhammad Bilal, Shiming Han. *Identification of therapeutic targets for polycystic ovary syndrome using network pharmacology and computer simulations*. *Farmacia*, 72:893-903. <https://doi.org/10.31925/farmacia.2024.4.18> (Impact Factor = 1.50, HEC = W category)
21. Anwar, Saba, Jin-Liang Peng, Kashif Rafiq Zahid, Yu-Ming Zhou, Qurban Ali, and Chong-Rong Qiu. 2024. *Cystic Fibrosis: Understanding Cystic Fibrosis Transmembrane Regulator Mutation Classification and Modulator Therapies" Advances in Respiratory Medicine* 92, no. 4: 263-277. <https://doi.org/10.3390/arm92040026> (Impact Factor = 1.80, HEC = X category)
22. Islam, S., Hussain, E.A., Shujaat, S. MU Khan, **Qurban Ali***, Saif ul Malook, Daoud Ali. *Antibacterial potential of Propolis: molecular docking, simulation and toxicity analysis*. *AMB*

- Expr* **14**, 81 (2024). <https://doi.org/10.1186/s13568-024-01741-0> (Impact Factor = 3.50, HEC = W category); Nature Publishing Group, London
23. Akram, A., Sakhawat, A., Ghani, M.U. Umar MU, Rehman R, *Qurban Ali, et al. *Silibinins and curcumin as promising ligands against mutant cystic fibrosis transmembrane regulator protein*. *AMB Expr* **14**, 84 (2024). <https://doi.org/10.1186/s13568-024-01742-z> (Impact Factor = 3.50, HEC = W category); Nature Publishing Group, London
 24. Tahir, U., Zameer, M., Fruk, S. Y., Ghauri, B. A., Javed, M. A., *Qurban Ali., F, Ali, Ali, D. (2024). *Isolation, and Characterization of Petroleum Oil-Degrading Bacteria from Petroleum Contaminated Soil*. *Geomicrobiology Journal*, 1–8. <https://doi.org/10.1080/01490451.2024.2372291> (Impact Factor = 2.2, HEC = X category)
 25. Tabassum, N., Shafiq, M., Fatima, S. Tahir, S. Tabassum, B. *Qurban Ali, Muhammad Arshad Javed *Genome-wide in-silico analysis of ethylene biosynthesis gene family in Musa acuminata L. and their response under nutrient stress*. *Sci Rep* **14**, 558 (2024). <https://doi.org/10.1038/s41598-023-51075-3> (Impact Factor = 4.996, HEC = W category); Nature Publishing Group, London
 26. Jadoon, S., *Qurban Ali, Sami, A. et al. *DNA damage in inhabitants exposed to heavy metals near Hudiana drain, Lahore, Pakistan*. *Sci Rep* **14**, 8408 (2024). <https://doi.org/10.1038/s41598-024-58655-x> (Impact Factor = 4.996, HEC = W category); Nature Publishing Group, London
 27. Sarwar, Muhammad Farhan, Mudassar Fareed Awan, Sajed Ali, Ajaz Ahmad, Saif ul Malook, and Qurban Ali. "In-silico characterization of LSDV132 protein divulged its BCL-2-like nature." *Heliyon* (2024): e27657. <https://doi.org/10.1016/j.heliyon.2024.e27657> (Impact Factor = 4.0, HEC = W category)
 28. Anjum, S., Sarwar, M., *Qurban Ali et al. *Assessment of bioremediation potential of Calotropis procera and Nerium oleander for sustainable management of vehicular released metals in roadside soils*. *Sci Rep* **14**, 8920 (2024). <https://doi.org/10.1038/s41598-024-58897-9> (Impact Factor = 4.996, HEC = W category); Nature Publishing Group, London
 29. Hussain, M., Javed, M.M., Sami, A. Shafiq, M., *Qurban Ali, et al. *Genome-wide analysis of plant specific YABBY transcription factor gene family in carrot (Dacus carota) and its comparison with Arabidopsis*. *BMC Genom Data* **25**, 26 (2024). <https://doi.org/10.1186/s12863-024-01210-4> (Impact Factor = 2.90, HEC = W category)
 30. Maqsood, Q., Sumrin, A., *Qurban Ali. et al. In-silico analysis of ribosome inactivating protein (RIP) of the Cucurbitaceae family. *AMB Expr* **14**, 61 (2024). <https://doi.org/10.1186/s13568-024-01718-z> (Impact Factor = 3.70, HEC = X category)
 31. Fatima Arshad , Awais Altaf , Madeeha Shahzad Lodhi , Arif Malik , Huma Sattar , Sara Zahid , Muhammad Imran Naseer , Toriki S. Abojamel , Absarul Haque , *Qurban Ali. *Evaluating the Therapeutic Efficacy of Swertia Chirayita in Liver Cancer Management*. *Journal of Biological Regulators and Homeostatic Agents*. 2024, 38(2): 1385-1408 <https://doi.org/10.23812/j.biol.regul.homeost.agents.20243802.110> (Impact Factor = 3.20, HEC = X category)
 32. Hafiz Muhammad Rehman , Wardah Shoaib , Muhammad Naveed Khan , Numan Yousaf , Fareeha Bashir , Hamid Bashir , *Qurban Ali , Shiming Han. *A Comprehensive In Silico Study of the NDB-IL-24 Fusion Protein for Tumor Targeting: A Promising Anti-Cancer Therapeutic Candidate*. *Journal of Biological Regulators and Homeostatic Agents*. 2024, 38(4): 3449-3461 <https://doi.org/10.23812/j.biol.regul.homeost.agents.20243804.274> (Impact Factor = 3.20, HEC = X category)
 33. Saima Jamil , Amin Ullah , Sadia Butt , Jamshaid Ahmad , Muhammad Ajmal Khan , Zafar Abbas Shah , Sajjad Ahmad , Ajaz Ahmad , Sher Ali , *Qurban Ali. *Genetic Variability of Untypable Hepatitis C Virus Isolates Based on 5'-Untranslated Region*. *Journal of Biological Regulators and Homeostatic Agents*. 2024, 38(1): 585-593 <https://doi.org/10.23812/j.biol.regul.homeost.agents.20243801.48> (Impact Factor = 3.20, HEC = X category)
 34. Shan, M.A., Khan, M.U., Ishtiaq, W. Rehman R. Khan, S. Javed, MA. Qurban Ali*. *In silico analysis of the Val66Met mutation in BDNF protein: implications for psychological stress*. *AMB Expr* **14**, 11 (2024). <https://doi.org/10.1186/s13568-024-01664-w> (Impact Factor = 3.70, HEC = X category)

35. Sami, A., Han, S., Haider, M.Z. *et al.* *Genetics aspect of vitamin C (Ascorbic Acid) biosynthesis and signaling pathways in fruits and vegetables crops.* *Funct Integr Genomics* **24**, 73 (2024). <https://doi.org/10.1007/s10142-024-01352-9> (Impact Factor = 3.90, HEC = W category)
36. Khatoon, N., Alam, Z., Hussain, I. Rameen K., *Qurban Ali, *et al.* *Comprehensive analysis of Seriphidium kurramense: GC/MS profiling, antibacterial and antibiofilm activities, molecular docking study and in-silico ADME profiling.* *Discov Appl Sci* **6**, 107 (2024). <https://doi.org/10.1007/s42452-024-05761-0> (Impact Factor = 2.80, HEC = X category)
37. Iftikhar, A., Farooq, R., Akhtar, M. Khalid, H., Hussain, N. *Qurban Ali, Malook, SU. Ali D. *Ecological and sustainable implications of phosphorous-solubilizing microorganisms in soil.* *Discov Appl Sci* **6**, 33 (2024). <https://doi.org/10.1007/s42452-024-05683-x> (Impact Factor = 2.60, HEC = X category)
38. Peng Jin-liang, Kashif Rafiq Zahid, Zhou Yu-ming, Qurban Ali, Qiu Chong-Rong, (2024). *Nanotechnology to Treat Sepsis.* *Genetics and Molecular Research.* 23 (2): gmr34059. (Impact Factor = 0.60 HEC = X category)
39. Haider MZ, Sami A, Shafiq M, Anwar W, Ali S, *Qurban Ali, Muhammad S, Manzoor I, Shahid MA, Ali D and Alarifi S (2023) *Genome-wide identification and in-silico expression analysis of carotenoid cleavage oxygenases gene family in Oryza sativa (rice) in response to abiotic stress.* *Front. Plant Sci.* 14:1269995.doi: <https://doi.org/10.3389/fpls.2023.1269995> (Impact Factor = 5.60, HEC = W category)
40. Batool, F., Hassan, S., Azam, S. Zunaira Sher, *Qurban Ali, Bushra Rashid. *Transformation and expressional studies of GaZnF gene to improve drought tolerance in Gossypium hirsutum.* *Sci Rep* **13**, 5064 (2023). <https://doi.org/10.1038/s41598-023-32383-0> (Impact Factor = 4.996, HEC = W category); Nature Publishing Group, London
41. Jalil, Sanaullah, Qurban Ali, Asad Ullah Khan, Muhammad Mudassir Nazir, Sharafat Ali, Faisal Zulfiqar, Muhammad Arshad Javed, and Xiaoli Jin. *Molecular and biochemical characterization of rice developed through conventional integration of nDart1-0 transposon gene.* *Sci Rep* **13**, 8139 (2023). <https://doi.org/10.1038/s41598-023-35095-7> (Impact Factor = 4.996, HEC = W category); Nature Publishing Group, London
42. Iqbal, Adnan, Sibgha Aslam, Sidra Akhtar, *Qurban Ali, Abdul Qayyum Rao, and Tayyab Husnain. *Over-expression of GhACTIN1 under the control of GhSCFP promoter improves cotton fiber and yield.* *Sci Rep* **13**, 18377 (2023). <https://doi.org/10.1038/s41598-023-45782-0> (Impact Factor = 4.996, HEC = W category); Nature Publishing Group, London
43. Mariyam, Muhammad Shafiq, Saleha Sadiq, *Qurban Ali, Muhammad Saleem Haider, Umer Habib, Daoud Ali, and Muhammad Adnan Shahid. *Identification and characterization of Glycolate oxidase gene family in garden lettuce (Lactuca sativa cv. 'Salinas') and its response under various biotic, abiotic, and developmental stresses.* *Sci Rep* **13**, 19686 (2023). <https://doi.org/10.1038/s41598-023-47180-y> (Impact Factor = 4.996, HEC = W category); Nature Publishing Group, London
44. Zahid, Sara, Arif Malik, Suleyman Waqar, Fatima Zahid, Nusrat Tariq, Ali Imran Khawaja, Waqas Safir, Faisal Gulzar, Javeid Iqbal, and *Qurban Ali. *Countenance and implication of B-sitosterol, B-amyryn and epiafzelechin in nickel exposed Rat: in-silico and in-vivo approach.* *Sci Rep* **13**, 21351 (2023). <https://doi.org/10.1038/s41598-023-48772-4> (Impact Factor = 4.996, HEC = W category); Nature Publishing Group, London
45. Khurram, Iqra, Muhammad Umer Khan, Saooda Ibrahim, Ayman Saleem, Zaman Khan, Muhammad Mubeen, Arooj Khawar, and *Qurban Ali. *Efficacy of cell-free DNA as a diagnostic biomarker in breast cancer patients.* *Sci Rep* **13**, 15347 (2023). <https://doi.org/10.1038/s41598-023-42726-6> (Impact Factor = 4.996, HEC = W category); Nature Publishing Group, London
46. Inayat, Shamaila, Sajid Rashid Ahmad, Sana Javaid Awan, Muhammad Nawshad, and *Qurban Ali. *In vivo and in vitro toxicity profile of tetrabutylammonium bromide and alcohol-based deep eutectic solvents.* *Sci Rep* **13**, 1777 (2023). <https://doi.org/10.1038/s41598-023-28928-y> (Impact Factor = 4.996, HEC = W category); Nature Publishing Group, London
47. Kiran, Asia, Awais Altaf, Muhammad Sarwar, Arif Malik, Tahir Maqbool, and *Qurban Ali. *Phytochemical profiling and cytotoxic potential of Arnebia nobilis root extracts against hepatocellular carcinoma using in-vitro and in-silico approaches.* *Sci Rep* **13**, 11376 (2023).

- <https://doi.org/10.1038/s41598-023-38517-8> (Impact Factor = 4.996, HEC = W category); Nature Publishing Group, London
48. Farid, N.; Ullah, A.; Khan, S.; Butt, S.; Khan, A.Z.; Afsheen, Z.; El-Serehy, H.A.; Yasmin, H.; Ayaz, T.; ***Qurban Ali**. *Algae and Hydrophytes as Potential Plants for Bioremediation of Heavy Metals from Industrial Wastewater*. *Water* 2023, 15, 2142. <https://doi.org/10.3390/w15122142> (Impact Factor = 3.40, HEC = W category).
 49. Said Hassan, Bashir Ahmad, Muhammad Waseem Khan, Zafar Abbass Shah, Amin Ullah, Sana Ullah, Dilfaraz Khan, Muhammad Rizwan, Ajaz Ahmad, ***Qurban Ali**, Prashant Kaushik, and Semih Yilmaz. *Cytotoxic Activity of Phytoconstituents Isolated from *Monotheca buxifolia* against Hepatocellular Carcinoma Cell Line HepG2: In Vitro and Molecular Docking Studies*. *ACS Omega* 2023 8 (37), 33572-33579. <https://doi.org/10.1021/acsomega.3c03705> (Impact Factor = 4.10, HEC = W category)
 50. Muhammad Aown Sammar Raza, Adnan Noor Shah, Muhammad Asghar Shahid, Muhammad Nawaz, Muhammad Arif Ibrahim, Rashid Iqbal, Muhammad Usman Aslam, Sezai Ercisli, and **Qurban Ali**. *Nano-Biochar Enhances Wheat Crop Productivity by Vindicating the Effects of Drought: In Relation to Physiological and Phenological Stages*. *ACS Omega* 2023 8 (41), 37808-37819. <https://doi.org/10.1021/acsomega.3c01629> (Impact Factor = 4.10, HEC = W category)
 51. Md. Abir Ul Islam, Juthy Abedin Nupur, Muhammad Shafiq, ***Qurban Ali**, Adnan Sami and Muhammad Adnan Shahid. *In silico and computational analysis of zinc finger motif-associated homeodomain (ZF-HD) family genes in chilli (*Capsicum annuum* L)*. *BMC Genomics* 24, 603 (2023). <https://doi.org/10.1186/s12864-023-09682-x> (Impact Factor = 4.40, HEC = W category)
 52. Jalil, Sanaullah, Muhammad Mudassir Nazir, Qurban Ali, Faisal Zulfiqar, Anam Moosa, Muhammad Ahsan Altaf, Abbu Zaid, Muhammad Nafees, Jean Wan Hong Yong, and Xiaoli Jin. *Zinc and nano zinc mediated alleviation of heavy metals and metalloids in plants: an overview*. *Functional Plant Biology* (2023). *Functional Plant Biology* 50(11) 870-888 <https://doi.org/10.1071/FP23021> (Impact Factor = 3.0, HEC = W category)
 53. Khan, Sara, Amin Ullah, Tehreem Ayaz, Aamir Aziz, Komal Aman, Mudassir Habib, Semih Yilmaz, Arshad Farid, Humaira Yasmin, and ***Qurban Ali**. *Phycoremediation of industrial wastewater using *Vaucheria debaryana* and *Cladophora glomerata**. *Environ Monit Assess* 195, 825 (2023). <https://doi.org/10.1007/s10661-023-11357-9> (Impact Factor = 3.0, HEC = W category)
 54. Tahir, Usaal, Mariam Zameer, Qurban Ali, Ayesha Rafique, Syeda Maham Ali, Muhammad Umer Arif, Imtiaz Nawaz, Saif ul Malook, and Daoud Ali. *Toxicity assessment of heavy metal (Pb) and its bioremediation by potential bacterial isolates*. *Environ Monit Assess* 195, 1047 (2023). <https://doi.org/10.1007/s10661-023-11632-9> (Impact Factor = 3.0, HEC = W category)
 55. Iqbal, Adnan, Sibgha Aslam, Mukhtar Ahmed, Fahad Khan, Qurban Ali, and Shiming Han. 2023. *Role of Actin Dynamics and GhACTIN1 Gene in Cotton Fiber Development: A Prototypical Cell for Study*. *Genes* 14, no. 8: 1642. <https://doi.org/10.3390/genes14081642> (Impact Factor = 3.5, HEC = W category)
 56. Maheen, Nimra, Muhammad Shafiq, Saleha Sadiq, Muhammad Farooq, Qurban Ali, Umer Habib, Muhammad Adnan Shahid, Asjad Ali, and Fawad Ali. 2023. *Genome Identification and Characterization of WRKY Transcription Factor Gene Family in Mandarin (*Citrus reticulata*)*. *Agriculture* 13, no. 6: 1182. <https://doi.org/10.3390/agriculture13061182> (Impact Factor = 3.6, HEC = W category)
 57. Ullah, Amin, Irshad Ur Rehman, Katharina Ommmer, Nadeem Ahmed, Margarete Odenthal, Xiaojie Yu, Jamshaid Ahmad, Tariq Nadeem, Qurban Ali, and Bashir Ahmad. 2023. *Circulating miRNA-192 and miR-29a as Disease Progression Biomarkers in Hepatitis C Patients with a Prevalence of HCV Genotype 3*. *Genes* 14, no. 5: 1056. <https://doi.org/10.3390/genes14051056> (Impact Factor = 3.5, HEC = W category)
 58. Mazhar, Hafiz Sabah-Ud-Din, Muhammad Shafiq, Haider Ali, Muhammad Ashfaq, Alia Anwar, Javaria Tabassum, **Qurban Ali**, Ghulam Jilani, Muhammad Awais, Ravi Sahu, and et al. 2023. *Genome-Wide Identification, and In-Silico Expression Analysis of YABBY Gene Family in Response to Biotic and Abiotic Stresses in Potato (*Solanum tuberosum*)*. *Genes* 14, no. 4: 824. <https://doi.org/10.3390/genes14040824> (Impact Factor = 3.5, HEC = W category)
 59. Safdar, Sahar, Saba Shamim, Maryam Khan, Ali Imran, Mudassar Ali Khan, Qurban Ali, and Shiming Han. 2023. *Probing Antibacterial and Anticancer Potential of *Selenicereus**

- undatus, Pistacia vera L. and Olea europaea L. against Uropathogens, MCF-7 and A2780 Cancer Cells. Molecules* 28, no. 24: 8148. <https://doi.org/10.3390/molecules28248148> (Impact Factor = 4.60, HEC = W category)
60. Sakhawat, Azra, Muhammad Umer Khan, Raima Rehman, Samiullah Khan, Muhammad Adnan Shan, Alia Batool, Muhammad Arshad Javed, and *Qurban Ali. *Natural compound targeting BDNF V66M variant: insights from in silico docking and molecular analysis. AMB Expr* 13, 134 (2023). <https://doi.org/10.1186/s13568-023-01640-w> (Impact Factor = 3.7, HEC = X category)
61. Akram, Maham, Mohsin Ahmad Khan, Nadeem Ahmed, Rashid Bhatti, Rabbia Pervaiz, Kausar Malik, Saad Tahir, Rabia Abbas, Fareeha Ashraf, and *Qurban Ali. *Cloning and expression of an anti-cancerous cytokine: human IL-29 gene in Chlamydomonas reinhardtii. AMB Expr* 13, 23 (2023). <https://doi.org/10.1186/s13568-023-01530-1> (Impact Factor = 3.70, HEC = X category)
62. Nazim Hussain, Areej Shahbaz, Muhammad Usama Saeed, Ajaz Ahmad, Saif ul Malook, *Qurban Ali. *A Reverse Vaccinology Approach towards a Peptide-Based Vaccine against the Newly Emerged Langya Henipavirus. Journal of Biological Regulators and Homeostatic Agents.* 2023, 37(9): 4773-4783 <https://doi.org/10.23812/j.biol.regul.homeost.agents.20233709.465> (Impact Factor = 3.20, HEC = X category)
63. Muhammad Usama Saeed, Hamid Bashir, Nazim Hussain, Amjad Nawaz, Muhammad Adnan Ali, Ajaz Ahmad, Saiful Malook, *Qurban Ali. *Developing a Subunit Vaccine against SARS-CoV-2 Using Bioinformatics Insights on Cytotoxic T-Lymphocytes (CTLs) Epitopes. Journal of Biological Regulators and Homeostatic Agents.* 2023, 37(10): 5729-5743 <https://doi.org/10.23812/j.biol.regul.homeost.agents.20233710.550> (Impact Factor = 3.20, HEC = X category)
64. Muhsin Ali, Muhammad Ajmal Khan, Humaira Yasmin, Bakhtawar Khan, Aftab Amin, Ajaz Ahmad, Awais Farid, Amin Ullah, Sadia Butt, *Qurban Ali. *In Vivo and in Vitro Evaluation of Achyranthes Bidentata Leaf Extract as a Potential Antidiabetic Agent. Journal of Biological Regulators and Homeostatic Agents.* 2023, 37(10): 5213-5232 <https://doi.org/10.23812/j.biol.regul.homeost.agents.20233710.505> (Impact Factor = 3.20, HEC = X category)
65. Sherzada, Shahid, Muhammad Nauman Sharif, Qurban Ali, Saeed Akram Khan, Tawaf Ali Shah, Mohamed AM El-Tabakh, Tariq Aziz et al. *Relative expression levels of growth hormone gene and growth rate in Indian major carp species. Acta Biochimica Polonica* 70, no. 4 (2023): 943-949. https://doi.org/10.18388/abp.2020_6864 (Impact Factor = 2.349, HEC = X category)
66. Zameer, M., A. Rafique, S. Alyas, S. Y. Farrukh, U. Tahir, N. Zahra, *Qurban Ali et al. (2023) *Computational analysis and protein structure modeling of zinc-and iron-dependent alcohol dehydrogenases for bioethanol yield in thermophiles. Applied Ecology & Environmental Research* 21(2):925-941. DOI: http://dx.doi.org/10.15666/aeer/2102_925941 (Impact Factor = 0.721, HEC = X category) ALÖKI Kft., Budapest, Hungary
67. Adnan Iqbal, Muhammad Azam Ali, Shafique Ahmed, Samina Hassan, Naila Shahid, Saira Azam, Abdul Qayyum Rao, *Qurban Ali and Ahmad Ali Shahid 2022. *Engineered resistance and risk assessment associated with insecticidal and weeds resistant transgenic cotton using wister rat model. Scientific Reports.* 12, 2518. (2022). <https://doi.org/10.1038/s41598-022-06568-y> (IF = 4.996).
68. Mubeen Sarwar, Sumreen Anjum, Muhammad Waqar Alam, Qurban Ali*, C.M Ayyub, Muhammad Saleem Haider, M. Irfan Ashraf, Wajid Mahboob. 2022. *Triacontanol regulates morphological traits and enzymatic activities of salinity affected hot pepper plants. Scientific Reports.* 12, 3736 (2022). (IF = 4.996).
69. Awan, M.F., Ali, S., Iqbal, M.S. *Qurban Ali, et al. *Enhancement of healthful novel sugar contents in genetically engineered sugarcane juice integrated with molecularly characterized ThSyGII (CEMB-SIG2). Sci Rep* 12, 18621 (2022). <https://doi.org/10.1038/s41598-022-23130-y> (IF = 4.996).
70. Sharif, M.N., Iqbal, M.S., Alam, R. Fareed MF, Tariq, M, *Qurban Ali, Nasir IA, 2022. *Silencing of multiple target genes via ingestion of dsRNA and PMRi affects development and survival in Helicoverpa armigera. Sci Rep* 12, 10405 (2022). <https://doi.org/10.1038/s41598-022-14667-z> (IF = 4.996).

71. Islam, M.A.U.; Nupur, J.A.; Khalid, M.H.B.; Din, A.M.U.; Shafiq, M.; Alshegaihi, R.M.; ***Qurban Ali** Ali, Q.; Kamran, Z.; Manzoor, M.; Haider, M.S.; Shahid, M.A.; Manghwar, H. Genome-Wide Identification and In Silico *Analysis of ZF-HD Transcription Factor Genes in Zea mays L. Genes* **2022**, *13*, 2112. doi: [10.3390/genes13112112](https://doi.org/10.3390/genes13112112) (IF = 4.141).
72. Khalid, A., Nadeem, T., Khan, M.A. ***Qurban Ali**, et al. In vitro evaluation of immunomodulatory, anti-diabetic, and anti-cancer molecular mechanisms of *Tribulus terrestris* extracts. *Sci Rep* **12**, 22478 (2022). <https://doi.org/10.1038/s41598-022-26742-6> (IF = 4.996).
73. Akram, A.M., Hassan, M., Chaudhary, A. ***Qurban Ali**, et al. Identification and in silico analysis of novel alteration Arg420Gly in KIT proto oncogene among acute myeloid leukemia patients. *Sci Rep* **12**, 19252 (2022). <https://doi.org/10.1038/s41598-022-23934-y> (IF = 4.996).
74. Zafar, M.M., Mustafa, G., Shoukat, F. Idrees, A. Ai, A. Sharif, F. Shakeel, A. Mo, H. Youlu, Y. **Qurban Ali**, Razzaq A. Ren, M. and Li, F. (2022). *Heterologous expression of cry3Bb1 and cry3 genes for enhanced resistance against insect pests in cotton*. *Sci Rep* **12**, 10878 (2022). <https://doi.org/10.1038/s41598-022-13295-x> (IF = 4.996)
75. Ali Inayat M-Allano, Zaib-un-Nisa, Binish Khaliq, Naila Ali, ***Qurban Ali**, Chen Chao and Zhu Yanming. *Cloning and in silico characterization of an abiotic stress-inducible u-box domain-containing protein gene GsPUB8 from Glycine soja*. *Sci Rep* **12**, 17146. (2022). <https://doi.org/10.1038/s41598-022-21583-9> (IF = 4.996).
76. Hanif Ullah, Kashif Bashir, Muhammad Idrees, Amin Ullah, Neelma Hassan, Sara Khan, Bilal Nasir, Tariq Nadeem, Hina Ahsan, Muhammad Islam Khan, ***Qurban Ali**, Sher Muhammad, Muhammad Afzal. (2022) *Phylogenetic analysis and antimicrobial susceptibility profile of uropathogens*. *PLoS ONE* **17**(1): e0262952. <https://doi.org/10.1371/journal.pone.0262952> (IF = 3.752).
77. Amin Ullah, Xiaojie Yu, Margarete Odenthal, Sonja Meemboor, Bashir Ahmad, Irshad ur Rehman, Jamshaid Ahmad, Qurban Ali, Tariq Nadeem (2022). Circulating microRNA-122 in HCV cirrhotic patients with high frequency of genotype 3. *Plos one*, **17**(5), e0268526. <https://doi.org/10.1371/journal.pone.02668526> (IF = 3.752).
78. Zahida Qamar, Idrees Ahmad Nasir, ***Qurban Ali**, Abdul Qayyum Rao, Ayesha Latif, Saima Anwar, Mounir AbouHaidar, Kathleen Hefferon, Ahmad Ali Shahid. 2021. *Novel approaches to circumvent the devastating effects of pests on sugarcane*. *Scientific Reports*. **11**, 12428 (2021). <https://doi.org/10.1038/s41598-021-91985-8> (IF = 4.996).
79. Muhammad Nadeem Hafeez*, Mohsin Ahmad Khan, Bilal Sarwar, Sameera Hassan, **Qurban Ali***, Tayyab Husnain & Bushra Rashid. *Mutant Gossypium Universal Stress Protein-2 (GUSP-2) gene confers resistance to various abiotic stresses in E. coli BL-21 and CIM-496-Gossypium hirsutum*. *Scientific Reports*. **11**:20466. <https://doi.org/10.1038/s41598-021-99900-x> (IF = 4.996).
80. Binish Khaliq, Sven Falke, Qamar Saeed , Muhammad Bilal, Aisha Munawar, Arslan Ali, Gunnar Baermann, Habib-ur-Rehman Athar, Seema Mahmood, Christian Betzel, **Qurban Ali*** and Ahmed Akrem. 2021. *Eruca sativa seed napin structural insights and thorough functional characterization*. *Scientific Reports*. **11**:02174. <https://doi.org/10.1038/s41598-021-02174-6> (IF = 4.996).
81. Ullah, Amin, Irshad Ur Rehman, Jamshaid Ahmad, Margaret Odenthal, Saad Ahmad, Tariq Nadeem, **Qurban Ali*** et al. *Phylogenetic analysis of the 5' untranslated region of HCV from cirrhotic patients in Khyber Pakhtunkhwa, Pakistan*. *Scientific Reports* **11**, no. 1 (2021): 1-9. <https://doi.org/10.1038/s41598-021-94063-1> (IF = 4.996).
82. Sarwar, M., Anjum, S., ***Qurban Ali** M Waqar Alam, M Saleem Haider and Wajid Mehboob. *Triacontanol modulates salt stress tolerance in cucumber by altering the physiological and biochemical status of plant cells*. *Sci Rep* **11**, 24504 (2021). <https://doi.org/10.1038/s41598-021-04174-y> (IF = 4.996).
83. Jahangir, G.Z., Naz, S., Saleem, M.Z., Khan, M.I., Younas, A., Qamar, Z., & ***Qurban Ali**. (2021). *Molecular characterization and expression studies of Eucalyptus globulus stress-responsive gene DHN-10*. *Biologia plantarum*, **65**, Article 316-322. <https://doi.org/10.32615/bp.2019.107> (IF = 1.747).

84. Zhou, X., K. Shafique, M. Sajid, ***Qurban Ali**, E. Khalili, M. A. Javed, M. S. Haider, G. Zhou, and G. Zhu. *Era-like GTP protein gene expression in rice*. *Brazilian Journal of Biology* 82 (2021): e250700. <https://doi.org/10.1590/1519-6984.250700>
85. Asma Chaudhary, Afia Muhammad Akram, Qurat-ul-Ain Ahmad, Zawar Hussain, Sarwat Zahra, Qandeel Minahal, Sana Azhar, Shuichi Karita, Sikandar Hayat and ***Qurban Ali** 2021. *Optimized biotransformation of acid-treated water melon peel hydrolyzate into ethanol*. *Brazilian Journal of Biology*. 82: e253009. (IF = 1.651).
86. Muzammal Mateen Azhar, ***Qurban Ali**, Arif Malik, Elham Khalili, Muhammad Arshad Javed, and Muhammad Saleem Haidar. 2021. *Optimization of Ethanol Production from Enzymatically Saccharified Biomass of Acid-Pretreated Rice Straw*. *PHILIPP AGRIC SCIENTIST*, Vol. 104 No. 3, 257 – 274, (IF = 0.251).
87. Muhammad Bilal, Bushra Tabassum, ***Qurban Ali** & Idrees Ahmad Nasir *Down Regulation of Potato Virus Y (PVY) Coat Protein (CP) Expression by Iberis gibraltaria Protein Extract*, *Cytol Genet.*, 2021, vol. 55, no. 1, pp. 80–86. DOI: 10.3103/S0095452721010102 (IF = 0.573).
88. Arfan Ali, Xiaodan Wang, ***Qurban Ali**, Muhammad Shahzad Iqbal, Idrees Ahmad Nasir and Dianqiu Lyu. 2020. *Salt tolerance of potato genetically engineered with the Atriplex canescens BADH gene*. *Biologia Plantarum*, 64(1): 271-279. (IF = 1.747). HEC Recognized: Yes
89. M.N. Sharif, M.S. Iqbal, R. Alam, B. Tabassum, M.F. Awan, **Qurban Ali** and I.A. Nasir. 2020. *Knock down of molt regulating gene for development control of Helicoverpa armigera*. *Genet. Mol. Res.* 19 (2): gmr16039979. (IF = 0.78). HEC Recognized: Yes
90. M.S. Iqbal, B. Tabassum, M.F. Awan, M Tariq, **Qurban Ali**, M.N. Sharif and I.A. Nasir. 2020. *Genetic variability of sugarcane genotypes for red rot disease*. *Genet. Mol. Res.* 19 (1): gmr16039978. (IF = 0.78). HEC Recognized: Yes
91. Muhammad Umair Majid, Zunaira Sher, Bushra Rashid, **Qurban Ali***, Muhammad Bilal Sarwar, Sameera Hassan and Tayyab Husnain. 2020. *Cotton leaf curl virus (CLCuV) infection association with leaf epicuticular wax load and whitefly population on different cotton varieties*. *Cytology and Genetics*. 54(5):472-486. (IF = 0.579).
92. Muhammad Bilal, Bushra Tabassum, **Qurban Ali**, Idrees Ahmad Nasir. *Down regulation of Potato Virus Y (PVY) Coat Protein (CP) expression by Iberis gibraltaria protein extract*. *Cytology and Genetics*. 55(1), 80-86. (IF = 0.579).
93. ***Qurban Ali** and Arif Malik. 2021. *Genetic response of growth phases for drought and heat tolerance in cereal crop plants*. *Genetika*. 53(1), 419-456. (IF = 0.761). HEC Recognized: Yes
94. ***Qurban Ali**, Muzammal Mateen Azhar, Arif Malik, Shahbaz Ahmad, Muhammad Zafar Saleem and Muhammad Waseem. 2020. *Mechanism of salt stress tolerance in plants: role of cation/H+ antiporters*. *Agrivita-Journal of Agricultural Science*. 42(3):593-606. HEC Recognized: Yes (IF = 0.6).
95. ***Qurban Ali**, Malik S, Malik A, Hafeez M N, Salman S. *Role of Modern Technologies in Tissue Engineering*. *Arch Neurosci*. 2020;7(1):e90394. <https://doi.org/10.5812/ans.90394> HEC Recognized: Yes (IF = 0.4).
96. Majid M U, Tahir M S, ***Qurban Ali**, Rao A Q, Rashid B, et al. *Nature and History of Ebola Virus: An Overview*. *Arch Neurosci*. 2016;3(3):e35027. <https://doi.org/10.5812/archneurosci.35027>. HEC Recognized: Yes (IF = 0.4).
97. Khan, M.S., Hayat, S., Malik, A., ***Qurban Ali**, Ishtiaq, A., & Akhtar, M.N. (2020). *Length-Weight relationships of Cyprinus carpio from the Indus River at Chashma Lake, District Mianwali, Punjab, Pakistan*. *Journal of Wildlife and Biodiversity*, 4(4), 72–80. <https://doi.org/10.22120/jwb.2020.121663.1119> (IF = 0.6).
98. Razzaq A, Shamsi S, Ali A, **Qurban Ali***, Sajjad M, Malik A and Ashraf M (2019) *Microbial Proteases Applications*. *Front. Bioeng. Biotechnol.* 7:110. doi: 10.3389/fbioe.2019.00110. (IF = 6.064).

99. Muhammad Awais, Muhammad Tariq, **Qurban Ali***, Arfan Ali, Muhammad Shazad Iqbal, Bushra Tabassum, Irdees Ahmad Nasir and Tayyab Husnain. **2019. Isolation, characterization and association of Phosphate Solubilizing Bacteria from sugarcane Rhizosphere.** 53(1): 86-95. Cytology and Genetics. (IF = 0.573).
100. Zaheer Ahmad Nazar, Hafiz Muhammad Walayat Ali Khan, ***Qurban Ali** and Idrees Ahmad Nasir. **2019. Identification of novel QTLs controlling Sugarcane Smut resistance and yield traits.** Genetika. 51(3):878-894. (IF = 0.761).
101. Muhammad Fahad Khan, ***Qurban Ali**, Muhammad Tariq, Shafique Ahmed, Zahida Qamar and Idrees Ahmad Nasir. **2019. Genetic Modification of *Saccharum officinarum* for Herbicide Tolerance.** 53(3): 239-249. Cytology and Genetics. (IF = 0.761).
102. Arfan Ali, Xiaodan Wang, ***Qurban Ali**, Muhammad Shahzad Iqbal, Idrees Ahmad Nasir and Dianqiu Lyu. 2019. **Fine screening for resistance to cold-induced sweetening in a wild potato population.** Applied Ecology and Environmental Research, 17(4):7333-7344. (IF = 0.721).
103. Akhtar Mahmood, ***Qurban Ali**, Shahbaz Ahmad, Said Salman, Muhammad Saleem Haider and Idrees Ahmad Nasir, 2019. **Genetic potential and association among morpho-physiological traits of petunia inbred lines.** Applied Ecology and Environmental Research, 17(4):7311-7332. (IF = 0.721).
104. Shahbaz Ahmad, Waqar Alam, Mubeen Sarwar, Tahir Shafeeq, Muhammad Kashif Zahoor, Muhammad Ashfaq, Muhammad Asif and Qurban Ali, 2019. **Study of morphological and qualitative plant traits against the infestation of *Chilo infuscatellus* L. (pyralidae lepidoptera).** Applied Ecology and Environmental Research, 17(3):7357-7365. (IF = 0.721).
105. Muhammad Nadeem Hafeez and **Qurban Ali**. 2019. **Enhancing drought tolerance in cotton through manipulating stress resistance genes.** Applied Ecology and Environmental Research, 17(3):7003-7025. (IF = 0.721).
106. Mahmood, Tariq, Hafiz Saad Bin Mustafa, Muhammad Aftab, **Qurban Ali**, and Arif Malik. **Super canola: Newly developed high yielding, lodging and drought tolerant double zero cultivar of rapeseed (*Brassica napus* L.).** *Genet. Mol. Res* 18 (2019): 1603995. (IF = 0.6).
107. Naeem, Muhammad, Shoaib Hassan, S. Masud, ***Qurban Ali**, Ammar Danyal Naeem, and Zara Naeem. **Comparative analysis of genomic DNA extraction protocols: Maxi-preparation of quality DNA for genetic evaluation and phylogenetic studies."** *Genetics and Molecular Research* 19, no. 1 (2020): gmr-20-7227. (IF = 0.6).
108. Hayat, Sikandar, Muhammad Naeem, Arif Malik, ***Qurban Ali**, Muhammad Khalid, Samrah Masud, and Arif Mahmood Bhutta. **Hepatitis B and C prevalence and its associated risk factors among school going children in urban and rural areas of District Muzaffar Garh.** 19, no. 1 (2020): gmr-20-7013. (IF = 0.6).
109. Ahmad Ashraf, Muhammad Sajid Rashid, ***Qurban Ali**, Arif Malik. **Genetic advance and heritability analysis for seedling growth traits in *Zea mays* under heavy metal stress.** *Genetics and Molecular Research* 19 (2020) gmr-20-16046 (IF = 0.6).
110. Hamza Khan, Muhammad Sajid Rashid, ***Qurban Ali**, Arif Malik. **Genetic Evaluation of *Brassica juncea* and *Sinapis alba* seedling traits under multi stress conditions.** *Genetics and Molecular Research* 19 (2020): gmr-20-16047 (IF = 0.6).
111. Ahmad, U., M. Kramat, Muhammad Nadeem Hafeez, and ***Qurban Ali**. **Targeted Delivery of Insulin by *Psyllium* Plant (*Plantago ispaghula*) based hydrogels/membranes.** *Genetics and Molecular Research* 19 (2020): gmr-20-8754. (IF = 0.6).
112. Tanzeel-ur-Rehman, ***Qurban Ali**, and Arif Malik. **Genetic variability for salt tolerance in maize seedlings."** *Genetics and Molecular Research* 19, no. 1 (2020): gmr16039977. (IF = 0.6).
113. Sharif, M., F. Ansari, A. Malik, ***Qurban Ali**, Z. Hasan, and N. U. H. Khan. **"Fourier-Transform Infrared Spectroscopy, Antioxidant, Phytochemical and Antibacterial Screening of N-Hexane Extracts of *Punica granatum*, A Medicinal Plant.** *Genet. Mol. Res* 19 (2020): gmr-20-19067. (IF = 0.6)

114. Mahmood, A., A. J. Sami, and ***Qurban Ali**. **Molecular Characterization of Tuf Gene and Antibiotic Susceptibility Patterns of Streptococcus Species in Local Population of Lahore, Pakistan.** *Genetics and Molecular Research* 19, no. 3 (2020): gmr-20-16998 (**IF = 0.6**).
115. Afzal, K., M. S. Rashid, ***Qurban Ali**, and A. Malik. **Genetic Advances and Heritability for Different Seedling Traits of Wheat and Maize under Heavy Metal and Salt Stress.** *Genetics and Molecular Research* 19, no. 3 (2020): gmr-20-16048 (**IF = 0.6**).
116. Tahir, M., M. Rashid, ***Qurban Ali**, and A. Malik. **Evaluation of Genetic Variability in Wheat and Maize under Heavy Metal and Drought Stress.** *Genetics and Molecular Research* 19 (2020): gmr-20-16049 (**IF = 0.6**).
117. Khalil, M., M. Rashid, ***Qurban Ali**, and A. Malik. **Genetic evaluation for effects of Salt and Drought Stress on growth traits of Zea mays Seedlings.** *Genetics and Molecular Research* 19 (2020): gmr-20-16050 (**IF = 0.6**).
118. Hayat, Sikandar, Arif Malik, **Qurban Ali***, Abir Ishtiaq, and Mujahid Niaz Akhtar. **"Length-Weight relationships of Cyprinus carpio from the Indus River at Chashma Lake, District Mianwali, Punjab, Pakistan."** *Journal of Wildlife and Biodiversity* 4, no. 4 (2020): 72-80. (**IF = 0.8**).
119. Iqbal, M., B. Tabassum, M. F. Awan, M. Tariq, ***Qurban Ali**, M. N. Sharif, and I. A. Nasir. **"Genetic variability of sugarcane genotypes for red rot."** *Genet. Mol. Res* 19 (2020). gmr-20-7573 (**IF = 0.6**).
120. Sharif, M. N., M. S. Iqbal, R. Alam, B. Tabassum, M. F. Awan, ***Qurban Ali**, and I. A. Nasir. **"Knock down of molt regulating gene for development control of Helicoverpa armigera."** (2020). gmr-20-7925. (**IF = 0.6**)
121. Naila Kanwal, Fawad Ali, ***Qurban Ali** and Hafeez Ahmad Sadaqat, 2019. **Phenotypic tendency of achene yield and oil contents in sunflower hybrids.** *Acta Agriculturae Scandinavica. Section B. Soil and Plant Science*, 69(6):1-16 (**IF = 1.694**).
122. Ghulam Zahara Jahangir, Qurat-Ul-Ain Arshad, Afzaal Shah, Madeha Sadiq, Shagufta Naz and ***Qurban Ali**, 2019. **Bio-fertilizing efficiency of phosphate solubilizing bacteria in natural environment: a trial field study on stress tolerant potato.** Accepted in *Applied Ecology and Environmental Research*, 17(5):10845-10859. (**IF = 0.721**).
123. Razzaq A, Shamsi S, Ali A, ***Qurban Ali**, Sajjad M, Malik A and Ashraf M (2019) **Microbial Proteases Applications.** *Front. Bioeng. Biotechnol.* 7:110. doi: 10.3389/fbioe.2019.00110 (**IF = 6.894**).
124. Moon Sajid, Bushra Rashid, ***Qurban Ali** and Tayyab Husnain, 2018. **Mechanism of Heat Sensing and Response in plants. Is it all about Ca²⁺ ions?** *Biologia Palntarum*, 62 (3): 409-420. doi.org/10.1007/s10535-018-0795-2. (**IF = 1.747**).
125. Hafiz Saad Bin Mustafa, Ejaz-ul-Hasan, Tariq Mahmood, Muhammad Aftab and **Qurban Ali***, 2018. **Enhancing food security in arid areas of Pakistan through newly developed canola quality, short duration and drought tolerant mustard (*brassica juncea* L.) lines.** *GENETIKA*. 50(1):21-31. (**IF = 0.761**).
126. Imran, Aman, Hafiza Yasara Qamar, A. L. I. ***Qurban Ali**, Hafsa Naeem, R. I. A. Z. Mariam, A. M. I. N. Saima, Naila Kanwal, A. L. I. Fawad, Muhammad Farooq Sabar, and Idrees Ahmad Nasir. "Role of molecular biology in cancer treatment: a review article." *Iranian journal of public health* 46, no. 11 (2017): 1475. (**IF = 1.3**)
127. Tahira Babi, Hafiz Saad Bin Mustafa, Tariq Mahmood, Amir Hameed and **Qurban Ali**, **Multivariate analysis for adaptability and yield stability of rapeseed (*Brassica napus* L.) strains in different agro-climatic zones.** *GENETIKA*. 50(2): 369-378. (**IF = 0.761**).
128. Nadeem, Tariq, Mohsin Ahmad Khan, Bushra Ijaz, Nadeem Ahmed, Zia Ur Rahman, Muhammad Shahzad Latif, ***Qurban Ali**, and Muhammad Adeel Rana. **"Glycosylation of recombinant anticancer therapeutics in different expression systems with emerging technologies."** *Cancer research* 78, no. 11 (2018): 2787-2798. <https://doi.org/10.1158/0008-5472.CAN-18-0032>. (**IF = 13.701**).
129. Iqbal MS, Jabbar B, Sharif MN, **Qurban Ali**, Husnain T, and Nasir IA (2017) **In silico MCMV Silencing Concludes Potential Host-Derived miRNAs in Maize.** *Front. Plant Sci.* 8:372. doi: 10.3389/fpls.2017.00372. (**IF = 6.627**).

130. Fawad Ali, Muhammad Ahsan, **Qurban Ali*** and Naila Kanwal. 2017. **Multivariate analysis of *Zea mays* yield traits against drought stress.** *Front. Plant Sci.* 8:1379. doi: 10.3389/fpls.2017.01379. (IF = 6.627).
131. Zulfiqar, Hafiza Fizzah, Aneeqa Javed, Bakht Afroze, ***Qurban Ali**, Khadija Akbar, Tariq Nadeem, Muhammad Adeel Rana, Zaheer Ahmad Nazar, Idrees Ahmad Nasir, and Tayyab Husnain. "**HIV diagnosis and treatment through advanced technologies.**" *Frontiers in public health* 5 (2017): 32. <https://doi.org/10.3389/fpubh.2017.00032>. (IF = 6.461).
132. Iqra Rehman, Beenish Aftab, Muhammad Bilal Sarwar, Bushra Rashid, **Qurban ALI***, Sameera Hassan, Muhammad Azam Ali, Idrees Ahmad Nasir, Muhammad Saleem Haider And Tayyab Husnain, 2017. **Gene expression in response to cotton leaf curl virus infection in *Gossypium hirsutum* under variable environmental conditions.** *GENETIKA*. Vol. 49 Issue 3, p1115-1126. (IF = 0.761).
133. Ibrahim Bala Salisu, Ahmad Ali Shahid, Amina Yaqoob, **Qurban Ali***, Kamran Shehzad Bajwa, Abdul Qayyum Rao and Tayyab Husnain. **Molecular approaches for high throughput detection and quantification of genetically modified crops: A review.** *Front. Plant Sci.* 8:1670. doi: 10.3389/fpls.2017.01670. (IF = 6.627).
134. Awais, Muhammad, Muhammad Tariq, Arfan Ali, Qurban Ali, Anwar Khan, Bushra Tabassum, Idrees Ahmad Nasir, and Tayyab Husnain. **Isolation, characterization and inter-relationship of phosphate solubilizing bacteria from the rhizosphere of sugarcane and rice.** *Biocatalysis and Agricultural Biotechnology* 11 (2017): 312-321. (IF = 3.4)
135. Muhammad Umair MAJID, Mudassar Fareed AWAN, Kanza FATIMA, Muhammad Sufyan TAHIR, **Qurban Ali***, Bushra RASHID, Abdul Qayyum RAO, Idrees Ahmad NASIR, Tayyab HUSNAIN. **Genetic resources of chilli pepper (*Capsicum annum* L.) against *Phytophthora capsici* and their induction through various biotic and abiotic factors: a review.** *Cytology and Genetics*, 51(4): 296-304. (IF = 0.579).
136. Zahida Qamar, Idrees Ahmad Nasir, Saman Riaz, **Qurban Ali*** and Tayyab Husnain. 2017. **Molecular cloning, transformation and evaluation of different transgenic sugarcane lines for GTGene and Cry1Ac gene.** *Cytology and Genetics*, 51(5): 401-412. (IF = 0.579).
137. Muhammad Umair MAJID, Mudassar Fareed AWAN, Kanza FATIMA, Muhammad Sufyan TAHIR, **Qurban Ali***, Bushra RASHID, Abdul Qayyum RAO, Idrees Ahmad NASIR, Tayyab HUSNAIN. **Phytophthora capsici on chilli pepper (*Capsicum annum* L.) and its management through genetic and bio-control: a review.** *Zemdirbyste-Agriculture*, 103(4): 419-430. (IF = 1.083).
138. Khadija Aaliya, Zahida Qamar, Idrees Ahmad Nasir, ***Qurban Ali**, Abdul Munim Farooq and Tayyab Husnain. 2016. **Transformation, evaluation of GTGene and multivariate genetic analysis for morpho-physiological and yield attributing traits in *Zea mays*.** *Genetika*. 48(1):423-433. (IF = 0.761).
139. Saif-ul-Malook, **Qurban Ali**, Muhammad Ahsan, Muhammad Khalid Shabaz, Muhammad Waseem, and Amar Mumtaz 2016. **Combining ability analysis for evaluation of Maize Hybrids under drought stress.** *Journal of National Science Foundation Sri Lanka*, 44(2): 123-130. (IF = 0.42).
140. Abbas H. G., A. Mahmood and ***Qurban Ali** (2016): **Zero tillage: a potential technology to improve cotton yield.** *GENETIKA*, 48(2): 761-776. (IF = 0.761).
141. **Qurban Ali***, Ahsan M, Malook S, Kanwal N, Ali F, Ali A, Ahmed W, Ishfaq M, Saleem M. **Screening for drought tolerance: comparison of maize hybrids under water deficit condition** (2016). *Adv. Life Sci.* 3(2): 51-58. (IF = 0.9)
142. Shahid Javed Butt, Servet Varis, Idrees Ahmad Nasir, Suman Sheraz, Azka Shahid and **Qurban Ali**. 2015. **Micro Propagation in Advanced Vegetable Production: A Review.** *Advancements in Life Sciences*. 2(2): 48-57. HEC Recognized: Yes (IF = 0.9)
143. Qureshi, Amna, Kalsoom Zaigham, Muhammad Shahzad Iqbal, and Qurban Ali. "Detection of Endothelin 2 (Et-2) as a novel biomarker of renal dysfunction in patients of liver Cirrhosis with Ascites." *Advancements in Life Sciences* 3, no. 4 (2016): 112-118. HEC Recognized: Yes (IF = 0.9)

144. Shan, Muhammad Adnan, Fazeelat Tahira, Muhammad Shafique, Manzoor Hussain, Rukhsana Perveen, Muhammad Shahzad, Farhana Ehsan Shahzad, M.S., Rahman, Z., **Qurban Ali**. and Iqbal, M. **Estimation of different biochemical intensities in drinking water from eastern region of Lahore city.** *Advancements in Life Sciences* 2, no. 3 (2015): 131-134. HEC Recognized: Yes (**IF = 0.9**)
145. Ali A, Iqbal M, **Qurban Ali***, Razzaq A, Nasir IA. (2016). **Gene Profiling for Invertase Activity: Assessment of Potato Varieties for Resistance towards Cold Induced Sweetening.** *Adv. Life Sci.* 3(2): 63-70. HEC Recognized: Yes (**IF = 0.9**)
146. Agung Nugroho Puspito, Abdul Qayyum Rao, Muhammad Nadeem Hafeez, Muhammad Shahzad Iqbal, Kamran Shehzad Bajwa, **Qurban Ali***, Bushra Rashid, Muhammad Adil Abbas, Ayesha Latif, Ahmad Ali Shahid, Idrees Ahmad Nasir, and Tayyab Husnain. **Transformation and evaluation of Cry1Ac+Cry2A and GTGene in *Gossypium hirsutum* L.** *Frontiers in Plant Sciences* 6:943. doi: 10.3389/fpls.2015.00943. (**IF = 6.627**).
147. Fawad Ali, Naila Kanwal, Muhammmad Ahsan, **Qurban Ali**, Irshad Bibi, and Nabeel Khan Niazi, “**Multivariate Analysis of Grain Yield and Its Attributing Traits in Different Maize Hybrids Grown under Heat and Drought Stress,**” *Scientifica*, vol. 2015, Article ID 563869, 6 pages, 2015. doi:10.1155/2015/563869. (**IF = 2.3**)
148. **Qurban Ali**, Arfan Ali, Muhammad Ahsan, Sajed Ali, Nazar Hussain Khan, Sher Muhammad, Hafiz Ghazanfar Abbas, Idrees Ahmad Nasir and Tayyab Husnain. 2014. **Line × Tester analysis for morpho-physiological traits of *Zea mays* L seedlings.** *Advancements in Life Sciences.* 1(4): 242-253. HEC Recognized: Yes (**IF = 0.9**)
149. Tariq M, **Qurban Ali**, Khan A, Khan GA, Rashid B, Rahi MS, Ali, A, Nasir IA, Husnain T. (2014). **Yield potential study of *Capsicum annuum* L. under the application of PGPR.** *Adv. life sci.*, 1(4) pp: 202-207. HEC Recognized: Yes (**IF = 0.9**)
150. Zameer M, Mahmood S, Mushtaq Z, Tabasum B, **Qurban Ali**, Mahmood N, Jamil N and Munir S. (2015). **Detection of bacterial load in drinking water samples by 16s rRNA ribotyping and RAPD analysis.** *Adv. Life Sci.* 2(3). pp: 135-141. HEC Recognized: Yes (**IF = 0.9**)
151. Abid Ilyas Dar, Fahad Saleem, Mumtaz Ahmad, Muhammad Tariq, Anwar Khan, Arfan Ali, Bushra Tabassum, **Qurban Ali**, Ghazanfar Ali Khan, Bushra Rashid, Idrees Ahmad Nasir and Tayyab Husnain. 2014. **Characterization and efficiency assessment of PGPR for enhancement of rice (*Oryza sativa* L.) yield.** *Adv. life sci.*, 2(1) pp: 38-45. HEC Recognized: Yes (**IF = 0.9**)
152. Sabbir MZ, Arshad M, Hussain B, Naveed I, Ali S, Abbasi A and **Qurban Ali**, (2014). **Genotypic response of chickpea (*Cicer arietinum* L.) for resistance against gram pod borer (*Helicoverpa armigera* (Hubner)).** *Adv. life sci.*, 2(1): 23-30. HEC Recognized: Yes (**IF = 0.9**)
153. **Qurban Ali**, Muhammad Ahsan, Muhammad Aslam, Nazar Hussain Khan, Mubashir Munzoor, Hafiz Saad Bin Mustafa and Sher Muhammad. 2013. **Genetic variability, heterosis and heterobeltiosis studies for morphological traits of maize (*Zea mays* L.) seedlings.** *Advancements in Life Sciences.* 1(1):52-63. HEC Recognized: Yes (**IF = 0.9**)
154. Sher Muhammad, Muhammad Shahbaz, Muhammad Iqbal, Arfan Sarwar Wahla, **Qurban Ali**, Muhammad Tasdiq Hussain Shahid, Muhammad Shafiq Tariq. 2013. **Prevalence of different foliar and tuber diseases on different varieties of potato.** *Advancements in Life Sciences.* 1(1):64-70. (**IF = 0.9**)
155. **Qurban Ali** & Muhammad Ahsan, (2015). **Correlation analysis for various grain contributing traits of *Zea mays*.** *African Journal of Agricultural Research*, 10(23), 2350-2354. (**IF=0.263**)
156. Fawad Ali, Muhammmad Ahsan, Nasir Ahmed Saeed, Mudassir Ahmed, **Qurban Ali**, Naila Kanwal, Muhammad Massub Tehseen, Usman Ijaz, Irshad Bibi and Nabeel Khan Niazi. 2014. **Establishment and Optimization of Callus-to-Plant Regeneration System using Mature and Immature Embryos of Maize (*Zea mays*).** *International Journal of Agriculture & Biology.* 16(1): 111-117. (**IF = 0.902**)
157. ***Qurban Ali**, Muhammad Ahsan, Muhammad Hammad Nadeem Tahir, Ihsan Khaliq, Muhammad Kashif, Mehboob Elahi, Nazar Hussain Khan, Jehanzab Farooq, Muhammad

- Tahir Naveed, Fawad Ali, Usman Saeed and Muhammad Anwar. 2012. **An Overview of QTL and Genomics assisted improvement of drought tolerance in maize (*Zea mays* L.)**. African Journal of Biotechnology. Vol. 11(65): 12839-12848. (IF= **0.573**)
158. ***Qurban Ali**, Mehboob Elahi, Muhammad Ahsan, Muhammad Hammad Nadeem Tahir, Ihsan Khaliq, Muhammad Kashif, Amir Latif, Usman Saeed, Muhammad Shahbaz, Nazar Hussain Khan, Tanvir Ahmed, Babar Hussain, Uzma Shahzadi, Muhammad Ejaz, 2012. **Genetic analysis of Morpho-Physiological and quality traits in chickpea genotypes (*Cicer arietinum* L.)**. African journal of Agriculture Research, Vol. 7(23):3403-3412. (IF= **0.263**).
159. Jehanzeb Farooq, Ihsan Khaliq, Muhammad Amjad Ali, Muhammad Kashif, Aziz-ur Rehman, Muhammad Naveed, **Qurban Ali**, Wajad Nazeer and Amjad Farooq, 2011. **Inheritance pattern of yield attributes in spring wheat at grain filling stage under different temperature regimes**. AJCS 5(13):1745-1753. (IF= **1.632**).
160. Jehanzeb Farooq, Ihsan Khaliq, Muhammad Kashif, **Qurban Ali**, and Shahzadi Mahpara. 2011. **Genetic analysis for relative cell injury percentage and some yield contributing traits in wheat under normal and heat Stress conditions**. Chilean Journal of Agricultural Research, volume 71(4): 511-520. (IF= **1.677**).

References

1. **Dr. Idrees Ahmad Nasir**
Professor
Head Seed Biotechnology Lab,
Centre of Excellence in Molecular Biology,
University of the Punjab Lahore, Pakistan
Phone No: +92 (0) 321-7440016
E-mail: dr.idrees@gmail.com
2. **Dr. Muhammad Ashfaq**
Professor
Department of Plant Breeding and Genetics,
University of the Punjab Lahore, Pakistan
Phone No: +92 321 6462690
E-mail: ashfaq.iags@pu.edu.pk
3. **Dr. Ajaz Ahmad**
Professor
Department of Clinical Pharmacy
College of Pharmacy, King Saud University
Riyadh, Saudi Arabia
Email: ajukash@gmail.com