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Chairman



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Professional Information/Experience

- Worked as **Trainee Research Fellow** (Plant Breeding & Genetics) in the Nuclear Institute for Agriculture and Biology (NIAB) since August 19, 2004 to August 18, 2007.
- Worked as **Farm Manager** for the evaluation of new exotic vegetable/cereals varieties/germplasm under the private seed organization at Gujranwala from February 2, 2003 to August 15, 2004 and conducted trials on farmer's field.
- Worked in PAEC Agribusiness Project for seed production of Wheat and Cotton at NIAB farm.
- As student researcher conducted research in partial fulfillment of the requirement of the degree of MSc (Hons) Plant Breeding & Genetics entitled: "*Association of grain yield with various morphological traits in Bread Wheat (Triticum aestivum L.)*"
- Worked as a **Trainee Researcher** in Plant Science Department McGill University, Canada February 17, 2010 to August 10, 2010.
- Delivered seminars in different forums.
- Worked as a **Visiting Scientist** at USDA (Dale Bumpers National Rice Research Center) USA, Arkansas from 11, August 2010 to 19, November, 2010.
- Worked as **Visiting Scientist** in Rice Research and Extension Center, University of Arkansas USA from 14 August, 2010 to 1 November, 2010 in Hybrid Rice Breeding Programme.
- Ph.D thesis entitled, "***Genetics of Rice (Oryza sativa L.) Under Normal and Water Stress Conditions***".
- **Assistant Professor** since 5-10-2011 to 9-03-2020 in the Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan
- **Associate Professor** since 10-03-2020 to 26-11-2024 in the Faculty of Agricultural Sciences, University of the Punjab, Lahore, Pakistan
- Currently working as **Professor** since 27-11-2024 to date in the Faculty of Agricultural Sciences, University of the Punjab, Lahore, Pakistan
- Worked as a Guest editor for the year 2022-23 (Genes MDPI Journal) in the special issue "**Plant Breeding: Challenges, Opportunities and Future Perspectives**".

Education:

Ph.D (PBG) Plant Breeding & Genetics, University of Agriculture, Faisalabad, 2011

M.Sc (Hons) Plant Breeding & Genetics, University of Agriculture, Faisalabad. 2002

B.Sc (Hons.) Plant Breeding & Genetics, University of Agriculture, Faisalabad, 2000

F.Sc (Premedical) Gujranwala Board in 1996.

Matriculation (Science) Gujranwala Board in 1992

Project Awarded:

- 1) Screening of diverse germplasm for the genetic studies of drought tolerance in rice (*Oryza sativa* L) (Rs: 500000) 2012. (Funded by HEC)
- 2) Genetic variability analysis of basmati and exotic rice germplasm lines by using various genotypic and phenotypic traits (Rs: 150000) 2012. (Funded by University of the Punjab)
- 3) Breeding for micronutrients improvement in rice (*Oryza sativa* L) for better human health (Rs: 150000) 2013. (Funded by University of the Punjab)
- 4) Breeding for homozygous resistant populations against rice grain discoloration disease (Rs: 150000) 2014. (Funded by University of the Punjab)
- 5) Screening of potential DNA resistant markers associated with rice grain discoloration disease (Rs: 150000) 2015-16. (Funded by University of the Punjab)
- 6) Screening, improvement and development of high yielding rice varieties using SSR markers (Rs: 150000) 2016-17. (Funded by University of the Punjab)
- 7) Assessment of post-harvest quality in broccoli by silencing ethylene triple response factor (ETR) using floret specific promoter (Rs: 150000) 2016-17. (Funded by University of the Punjab)
- 8) Morphological and pathogenic characterization of discolored resistant rice (Rs: 150000) 2017-18. (Funded by University of the Punjab)
- 9) Abiotic Stress Tolerance in Rice (Rs: 150000) 2019-20. (Funded by University of the Punjab)
- 10) Identification and characterization of pathogen causing grain discoloration in rice (Rs:200000) 2020-21. (Funded by University of the Punjab)
- 11) Heat tolerance genes identification and physiological mechanism analysis from Honglian type hybrid rice source and new hybrid rice variety creations. (4253200) 2021 funded by Pakistan Science Foundation (PSF) and Collaboration with Wuhan University China.
- 12) Association mapping of yield and other physio-morphological traits in rice (*Oryza sativa* L.) (Rs: 400000) 2021-22. (Funded by University of the Punjab)
- 13) Genome-wide association study of yield and yield related traits in rice (*Oryza Sativa* L.) using SNPs markers (Rs: 250000 for the year 2022-23 funded by University of the Punjab).
- 14) Evaluation of Honglian type hybrid rice varieties in Pakistan with yield and quality parameters (Rs: 250000 for the year 2022-23 funded by University of the Punjab).

Impact Factor Research Publications

Paper published in the year 2024

Qurban Ali, Adnan Sami, Muhammad Zeshan Haider, Muhammad Ashfaq and Muhammad Arshad Javed (2024). Antioxidant production promotes defense mechanism and different gene expression level in *Zea mays* under abiotic stress.

Scientific Reports. 14:7114. <https://doi.org/10.1038/s41598-024-57939-6>. (IF= 3.8) **W category**

Saima Jadoon, QurbanAli, Adnan Sami, Muhammad Zeeshan Haider, Muhammad Ashfaq, Muhammad Arshad Javed and Mudassar Ali Khan. (2024). DNA damage in inhabitants exposed to heavy metals near Hudiara drain, Lahore, Pakistan. Scientific Reports.14:8408. <https://doi.org/10.1038/s41598-024-58655-x>. (IF= 3.8) **W category**

Javaria Majeed, Shabnum Shaheen, Muhammad Waheed, Moneeza Abbas, Nadia Ghani, Muhammad Ashfaq, Abeer Hashem, Ajay Kumar and Elsayed Fathi Abd-Allah. (2024). Morpho-anatomical studies of family lamiaceae species of district Lahore, Punjab: a revision to flora of Pakistan. BMC Plant Biology. 24:694 <https://doi.org/10.1186/s12870-024-05358-0>. (IF= 4.3) **W category**

Ayesha Farooq, Farah Khan, Muhammad Ashfaq and Shabnum Shaheen. (2024). SCREENING OF PAKISTANI RICE (ORYZAE SATIVA L.) CULTIVARS AGAINST BURKHOLDERIA GLUMAE. Tianjin Daxue Xuebao (Ziran Kexue yu Gongcheng Jishu Ban)/ Journal of Tianjin University Science and Technology. 57 (04):455-465. DOI: 10.5281/zenodo.11045173. **X category**

Paper published in the year 2023

Ashfaq, M.; Zhu, R.; Ali, M.; Xu, Z.; Rasheed, A.; Jamil, M.; Shakir, A.; Wu, X. Adaptation and High Yield Performance of Honglian Type Hybrid Rice in Pakistan with Desirable Agricultural Traits. Agriculture 2023, 13, 242. <https://doi.org/10.3390/agriculture13020242> (IF= 3.49) **W category**

Mazhar, H.S.-U.-D.; Shafiq, M.; Ali, H.; Ashfaq, M.; Anwar, A.; Tabassum, J.; Ali, Q.; Jilani, G.; Awais, M.; Sahu, R.; et al. Genome-Wide Identification, and In-Silico Expression Analysis of YABBY Gene Family in Response to Biotic and Abiotic Stresses in Potato (Solanum tuberosum). Genes 2023, 14, 824. <https://doi.org/10.3390/genes14040824> **W Category (IF: 4.12)**

Ashfaq, M.; Rasheed, A.; Zhu, R.; Ali, M.; Javed, M.A.; Anwar, A.; Tabassum, J.; Shaheen, S.; Wu, X. Genome-Wide Association Mapping for Yield and Yield-Related Traits in Rice (Oryza Sativa L.) Using SNPs Markers. Genes 2023, 14, 1089. <https://doi.org/10.3390/genes14051089> **W Category (IF:4.12)**

Shaheen, S.; Harun, N.; Ijaz, R.; Mukhtar, N.; Ashfaq, M.; Bibi, F.; Ali, M.; Abbas, Z.; Khalid, Z. Sustainability Issues in Conservation of Traditional Medicinal Herbs and Their Associated Knowledge: A Case Study of District Lahore, Punjab, Pakistan. Sustainability 2023, 15, 7343. <https://doi.org/10.3390/su15097343>. **W Category (IF:4.47)**

CHATTHA, M.B. Qurban ALI, Muhammad N. SUBHANI, Muhammad ASHFAQ, Shahbaz AHMAD, Zahid IQBAL, Muhammad IJAZ, Muhammad A. AYUB, Muhammad R. ANWAR, Maha ALJABRI, Muhammad U. HASSAN, Sameer H. QARI. 2023. Foliar applied zinc on different growth stages to improves the growth, yield, quality and kernel bio yield, quality and kernel bio-fortification of fine rice. Notulae Botanicae Horti Agrobotanici Cluj-Napoca Volume 51, Issue 2, Article number 13221. DOI:10.15835/nbha51213221. **X Category (IF=1.69)**

Shehbaz Sharif*, Muhammad Ali, **Muhammad Ashfaq** and Habib ur Rehman. (2023). Comparative efficacy of some granular insecticides against maize stem borer, Chilo partellus

(Swinhoe) under high efficiency irrigation system. Pakistan Journal of Agricultural Sciences. 60(4): 637-642. **X Category (IF=0.618)**.

Paper published in the year 2022

Bakhat, H.F., Arshad, S. Natasha, Abbas, S. Shah, G.M. Fahad, S. Hammad, H.M. Sajjad., **Ashfaq, M.** and M. Shahid. (2022). Genotypic Differences Among the Rice Genotypes to Arsenic Stress Cultivated Under Two Water Regimes: With an Inference to Human Health. *J Plant Growth Regul* **41**, 558–568 (2022). <https://doi.org/10.1007/s00344-021-10321-6>. **(2.78) W**

Shaheen, S., J.S. Rad, M. Ali, Z. Shamim, B. Rasool, **M. Ashfaq**, H. Mukhtar, N. Harun, U. Hanif and R. Siddique. (2022). Light and scanning electron microscopy-based foliar morpho-anatomical comparison of selected family Rosaceae members distributed in District Lahore, Punjab, Pakistan. *Microsc Res Tech.* 2022 Apr; 85(4):1597-1610. doi: 10.1002/jemt.24021. Epub 2021 Dec 9. PMID: 34888979. **(2.94) W**

Muhammad Ashfaq,* Abdul Rasheed, Muhammad Ali, Muhammad Sajjad, Bilal Rasool, Shabnum Shaheen, Muhammad Shafiq, Muhammad Arshad Javed, Alia Anwar, Muhammad Saleem Haider, and Urooj Mubashar. (2022). Identifying and characterizing the main causal pathogen responsible for rice grain discoloration in Pakistan. *Pak. J. Agri. Sci.*, 59(2): 223-230. **(0.618) X**

Muhammad Ashfaq, Abdul Rasheed, Muhammad Sajjad, Muhammad Ali, Bilal Rasool, Muhammad Arshad Javed, Sami Ul Allah, Shabnum Shaheen, Alia Anwar, Muhammad Shafiq Ahmad, Urooj Mubashar. (2022). Genome wide association mapping of yield and various desirable agronomic traits in Rice. *Molecular Biology Reports.* <https://doi.org/10.1007/s11033-022-07687-5>. **(2.76) W**

Paper published in the year 2021

Rasheed, A., **Ashfaq, M.** and M. Sajjad. (2021). COMBINING ABILITY AND HETEROSIS ANALYSIS FOR GRAIN YIELD TRAITS IN FINE LONG GRAIN RICE (ORYZA SATIVA L.). *The Journal of Animal & Plant Sciences.* 31(3): 764-772. **(IF=0.529)**

Shaheen, S., Harun, N. Hussain, K. Rad, J.S. Shahid, M.N. **Ashfaq, M.** Sonia, R. Ahmad, N and F. Khan. 2021. Light and scanning electron microscopic study of genus Echinochloa species inhabited in Pakistan. *Microsc Res Tech.* 1–5. <https://doi.org/10.1002/jemt.23782> (IF: **2.22**)

Mushtaq, S., M. Shafiq, **M. Ashfaq**, M Ali, S. Shaheen, D. Hsieh, T. Finan and M. S. Haider. 2021. STUDY OF VARYING pH RANGES ON THE GROWTH RATE OF BACTERIAL STRAINS ISOLATED FROM PLANTS. *Pak. J. Agri. Sci.*, Vol. 58(3), 1051-1057. (IF:**0.618**)

Muhammad Ashfaq, Ansa Afzal, Muhammad Arshad Javed, Muhammad Ali, Bilal Rasool, Shabnum Shaheen, Muhammad Shafiq, Urooj Mubashar, Mubarak Ali Anjum and Abdul Rasheed. 2021. IDENTIFICATION AND PATHOGENIC CHARACTERIZATION OF BACTERIA CAUSING RICE GRAIN DISCOLORATION IN PAKISTAN. *INT. J. BIOL. BIOTECH.*, 18 (2): 239-246, 2021.

- 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*. 67(1): 42-49.
- Mubarak Ali Anjum, **Muhammad Ashfaq**, Muhammad Saleem Haider, Muhammad Arshad Javed, Muhammad Ali, Bilal Rasool, Muhammad Shafiq and Urooj Mubashar. 2021. BARLEY CHITINASE GENE CONFERS RESISTANCE AGAINST FUSARIUM OXYSPORUM AND ALTERNARIA SOLANI IN TRANSGENIC POTATO AK-22. *INT. J. BIOL. BIOTECH.*, 18 (4): 657-663, 2021.

Paper published in the year 2020

- Wahab, U., **Ashfaq, M.**, Sajjad, M., Shaheen, S., Sadique, R., Ali, M and Khan, F., 2020. Effects of different plant growth regulators on in vitro growth of Aloe Vera L. *Bangladesh Journal of Botany*. 49(1): 159-162 **(IF:0.214) W category**
- Ashfaq, M.**, Anjum, M.A., Haider, M.S., Ali, M., Mubashar, U., Bashir, U., H.M.U Aslam, H.M.U and Sajjad, M., 2020. ASSOCIATION OF *Cladosporium cladosporioides* BROWN LEAF SPOT OF LADIES PALM IN PAKISTAN. *Journal of Animal and Plant Sciences*. 30(3): 371-376 **(IF:0.529) W category**
- Shaheen, S., Fateh, R. Younis, S. Harun, N. Jaffer, M. Hussain, K. **Ashfaq, M.** Siddique, R. Mukhtar, H. And Khan, F. 2020. Light and scanning electron microscopic characterization of thirty endemic Fabaceae species of district Lahore, Pakistan. *Microscopy Research and Technique*. 83: 1507-1529. **(IF=2.22) W category**
- Shaheen, S., Jalal, **M. Ashfaq**, M. Ali, M. Bilal Rasool, B. Watto, J.I. Asrar, M. Ali, U. Sajjad, M. Jaffer, M. Haroon, N. and Khan, F. 2020. EVALUATION OF NUTRACEUTICAL POTENTIAL OF FIVE SELECTED WILD EDIBLE PLANTS OF LAHORE, PAKISTAN. *Pakistan Journal of Agricultural Sciences*. 57(6):1557-1563. **(IF=0.618) W category**
- Ashfaq, M.**, Saleem, I. Haider, M.S. Ali, M. Watto, J.I. Shafiq, M. Ahmad, S. Asrar, M. Rasheed, A. Ali, U. Sajjad, M. and Mubashar, U. 2020. SSR BASED SCREENING OF RICE GERMPLOSM AGAINST BLAST DISEASE AND ITS GIS MONITORING IN PUNJAB, PAKISTAN. *International Journal of Biology and Biotechnology*. 17 (3): 571-581. HEC Y Category
- Ali, U. **Ashfaq, M.** Shafiq, M. Ali, M. Shaheen, S. Mubashar, B. Anjum, M.A. and Aqeel, M. 2020. EFFECTS OF ORGANIC AND CHEMICAL FERTILIZERS ON GROWTH AND YIELD ATTRIBUTES OF CHILI (*CAPSICUM ANNUUM* L.). *International Journal of Biology and Biotechnology*. 17 (4): 731-738. HEC Y category

Paper published in the year 2019

- Ashfaq, M.**, A. Waqas, M.S. Haider, M. Ali, M. Sajjad, F. Khan, S. Shaheen, M.A. Anjum and U. Mubashar 2019. MOLECULAR AND AGRONOMIC

- CHARACTERIZATION OF SELECTED RICE GERMPLASM UNDER NORMAL AND WATER STRESS CONDITIONS. Pak. J. Agri. Sci., 56(1): 29-36. (IF:0.618)
- Watto, J.I., S. Liaqat, H. Mubeen, **M. Ashfaq**, M.N. Shahid, A. Farooq, M. Sajjad and M. Arif. 2019. Genetic mapping of grain nutritional profile in rice using basmati derived segregating population revealed by SSRs. *Intl. J. Agric. Biol.*, 21: 929–935. (IF: 0.802)
- Maqsood, S., M. Afzal, M.S. Haider, H.A.A. Khan, M. Ali, **M. Ashfaq**, M. Aquee and M.I.Ullah. 2019. Effectiveness of Nuclear Polyhedrosis Virus and *Bacillus thuringiensis* alone and in Combination against *Spodoptera litura* (Fabricius). Pakistan J. Zool. 52(2): 631-641. (IF:0.790)
- Alam, A., S. Shaheen, **M. Ashfaq**, M. Ali, J. I. Watto, M. A. Anjum, F. Khan, S. Maqsood and M. Sajjad. 2019. MICROBIAL EXAMINATION OF MOULD AND YEAST IN FRUIT JUICES. Pak. J. Agri. Sci., 56(3): 715-721. (IF: 0.618)
- Mushtaq, S., M. Shafiq, T. Ashraf, M. S. Haider, **M. Ashfaq*** and M. Ali. 2019. CHARACTERIZATION OF PLANT GROWTH PROMOTING ACTIVITIES OF BACTERIAL ENDOPHYTES AND THEIR ANTIBACTERIAL POTENTIAL ISOLATED FROM CITRUS. J. Ani. Pla. Sci. 29 (4): 978-991(IF: 0.529)
- Ashfaq, M.**, M. Ali, M. Shahzad, M.A. Anjum, M. Sajjad, M.S. Haider and U. Mubashar 2019. EFFICACY ASSESSMENT OF BIO-PESTICIDES AGAINST RICE LEAF FOLDER, *CNAPHALOCROCIS MEDINALIS* (GUENEE) (LEPIDOPTERA : PYRALIDAE) USING DNA QUANTIFICATION METHOD. Intern. J. Bio. Biotech. 16(2): 391-399. (HEC recognized Y category)
- Shaheen S., M. Jaffer, S. Khalid, M.A. Khan, K. Hussain, M.M. Butt, A.R. Siddique, M. **Ashfaq**, M. Ahmad, M. Zafar, F. Khan. 2019. Microscopic Techniques Used for the Identification of Medicinal Plants: A case study of Senna. Microsc. Res. Tech. 82: 1660-1667. (IF: 1.327)
- Ali, M., Shahzad, **M. Ashfaq**, M. Asrar, A. Gulzar, H.M.U. Aslam. 2019. SCREENING OF DIFFERENT RICE GENOTYPES (ORYZA SATIVA) AGAINST CNAPHALOCROCIS MEDINALIS (LEPIDOPTERA: PYRALIDAE) UNDER FIELD CONDITIONS IN LAHORE, PAKISTAN. Pakistan Entomologist. 41(1): 47-50. (HEC recognized Y category)
- S. Ahmad, M.W. Alam, M. Sarwar, A. Rehman, T. Shafeeq and **M. Ashfaq**. 2019. Sustainable management of *Chilo infuscatellus* (Pyralidae, Lepidoptera) by using non-chemical approaches. International Journal of Bioscience. 14(3):396-400.

Paper published in the year 2018

- Khan, N.U. and **Ashfaq, M.** (2018). WTO's Implications on Agriculture Sector in Pakistan: Threats, Opportunities and Possible Strategies. Adv. Life Sci. 5(2): 30-36.
- Riaz, M., K. Zahid, S.A. Chohan, **M. Ashfaq**, M. Ali, R. Siddque, N. Anees, F. Khan. 2018. Enhanced Sodium Chloride disturbs the Genetic stability in *Ocimum tenuiflorum* L. Biologia, 64 (1): 119-128.

- Mushtaq, M., M. Shafiq, **M. Ashfaq**, F. Khan, S. Afzal, U. Hussain, M. Hussain, R.M. Balal and M.S. Haider. 2018. Isolation and morphological characterization of novel bacterial Endophytes from Citrus and evaluation for antifungal potential against *Alternaria solani*. *Biologia*, 64 (1): 111-117.
- Shaheen S, Jaffer M, Aslam B Hussain K , Khan A, **Ashfaq M**, et al. 2018. Microbial assessment of pathogenic bacterial growth in ice cream and kulfa. *Microsc Res Tech.* pp 1-5.
- Sumaira Maqsood*, Muhammad Saleem Haider, Muhammad Ali, **Muhammad Ashfaq**, Hafiz Azhar Ali Khan, Muhammad Ahmad, Muhammad Bilal Chattha. 2018. Synergistic interaction of *Beauveria bassiana* and *Bacillus thuringiensis* for the control of *Spodoptera litura*. International Proceeding ICAGAS. Turkey. Pp. 1159-1173.

Paper published in the year 2017

- Ashfaq**, M., Anjum, M.A., Hafeez, R., Ali, A., Haider, M. Ali, M. B. Chattha, **S.** R. Ahmad, F. Ahmad, F.Khan and M. Sajjad. (2017). First Report of *Fusarium equiseti* Causing Brown Leaf Spot of Fishtail Palm (*Caryota mitis*) in Pakistan. *Plant Disease* Vol 101 (5): 840-840. **(IF:3.19)**
- Ashfaq, M.**, Haider, M.S., Ali, A., Ali, M., Mubashar, H., Sajjad, M. and Mubashar, U. (2017) DIVERSITY AND CORRELATION ANALYSIS IN BASMATI RICE GERMPLASM. *Bangladesh J. Bot.* 46(2): 565-574. **(IF:0.331)**
- Ashfaq, M.**, Mubashar, U., Haider, M.S., Ali, M., Ali, M. and Sajjad, M. (2017) GRAIN DISCOLORATION: AN EMERGING THREAT TO RICE CROP IN PAKISTAN. *The Journal of Animal & Plant Sciences*, 27(3): 696-707. **(IF:0.381)**
- Ashfaq**, M., Haider, M.S., Ali, M., Shaheen, S., Khan, F., Ali, M. and Urooj Mubashar, U. (2017) MOLECULAR DIVERSITY AND HETEROSIS ANALYSIS FOR RICE GRAIN DISCOLORATION. *Pak. J. Agri. Sci., Vol. 54(2)*879-887.. **(IF:0.659)**
- Ashfaq**, M., Rashid, A., Haider, M.S., Ali, A., Shahzad, M., Ali, M., Khan, F., Farooq, H.U. and Mubashar, U. (2017). GENETIC VARIABILITY AND ASSOCIATION STUDY OF SOME QUANTITATIVE TRAITS IN CHICKPEA (*CICER ARIETINUM* L.). *INT. J. BIOL. BIOTECH.*, 14 (2): 279-282. **(HEC Recognized Y category)**
- Ali, M., Khan, H.A.A., Tahir, H.M., Tariq, A., **Ashfaq**, M., Ali, S.W. Gulzar, A., Aslam, H.M.U., Yousaf, U.K.S. and Mubashar, U. (2017). LARVICIDAL POTENTIAL OF DIFFERENT PLANTS EXTRACTS AGAINST THE LARVAE OF MOSQUITO (*Aedes Aegypti*(L.) (CULICIDAE: DIPTERA). *Pak. Entomol.*, 39(1):37-40. **(HEC Recognized Y category)**
- Ashfaq, M.**, Asghar, Q.A., Hafeez, R., Ali, A., Haider, M.S., Ali, M., Chatha, M.B., Rasheed, A. and Sajjad, M. (2017). Microbial Diversity Associated With Rice Seeds. *BIOLOGIA (PAKISTAN)*. 63 (2) 161-168.

Paper published in the year 2016

- Majeed, R.A., Shahid, A.A. **Ashfaq**, M., Saleem, M.Z. and Haider, M.S. (2016). First Report of *Curvularia lunata* Causing Brown Leaf Spots of Rice in Punjab, Pakistan. Plant Disease Vol 100 (1): 219-219. (IF:3.02)
- Hanif, S., Hafeez, R., Akram, W., **Ashfaq**, M. and Ali, A. (2016) First Report of Sclerotinia Fruit Rot of *Citrus paradisi* Caused by *Sclerotinia sclerotiorum* in Pakistan. Plant Disease Vol 100 (4): 863-863. (IF: 3.02)
- Ashfaq**, M., Haider, M.S., Ali, A., Ali, M., Saleem, I. and Mubashar, U. (2016) MORPHOLOGICAL CHARACTERIZATION OF ENDOPHYTIC BACTERIAL STRAINS ISOLATED FROM DISCOLORED RICE GRAIN. Pak. J. Phytopathol., Vol. 28 (01) 2016. 01-08. (HEC recognized Y category)
- Ali, A., **Ashfaq**, M., Haider, M.S., Hafeez, R. and Ali, M. (2016). EVALUATION OF PHYLLOSPHERIC BACTERIAL COMMUNITY IN SOME MEDICINAL PLANTS AND THEIR ANTIMICROBIAL ACTIVITY. INT. J. BIOL. BIOTECH., 13 (3): 407-415. (HEC recognized Y category)
- Ashfaq**, M., Mubarak, R., Saleem, M.Y., Ali, A., Ali, M. and Haider, M.S. (2016) QUANTITATIVE DISEASE STUDY OF EARLY BLIGHT OF TOMATO UNDER NATURAL FIELD CONDITIONS. Int. J. Agric. Appl. Sci. Vol. 8, No.1: 31-34. (HEC recognized Z category)
- Ali, M., **Ashfaq**, M., Ghaffar, A., Bahtti, A.U., Ali, A. and Mubashar, U. (2016) Role of Physio-Morphic Characters of Different Genotypes of Eggplant, *Solanum melongena* L. and its Association with the Fluctuation of Jassid, *Amrasca biguttula biguttula* (Ishida) Population. Pakistan J. Zool. 48(5): 1511-1515.
- Ali, M., **Ashfaq**, M., Ranjha, M.H., Gulzar, A., Ahmad, S. and Ali, A. (2016). THE HOST PLANT SUSCEPTIBILITY INDICES AND VARIETAL PREFERENCE OF JASSID(*AMRASCA BIGUTULLA BIGUTULLA* ISHIDA) ON EGGPLANT (*SOLANUM MELONGENA* L.) IN PUNJAB PAKISTAN. Pak. Entomol., 38(1): 15-18.

Paper published in the year 2015

- Ashfaq M**, Saleem I (2015) Rice – A Great Grain. J Rice Res 3(3): 1-2. doi: [10.4172/2375-4338.1000e119](https://doi.org/10.4172/2375-4338.1000e119). (Editorial)
- Muhammad Ashfaq**^{*1}, Muhammad Shakil Shaukat¹, Muhammad Akhter² Muhammad Saleem Haider¹, Urooj Mubashar⁴ and Syed Bilal Hussain³ (2015). COMPARISON OF FUNGAL DIVERSITY OF LOCAL AND EXOTIC RICE (*ORYZA SATIVA* L.) GERMPLOSM FOR THEIR SEED HEALTH. The journal of animal and plant sciences. Vol25 (5): 1349-1357.
- Ashfaq M**, Haider MS, Saleem I, Ali M, Ali A, Chohan SA (2015) Basmati–Rice a Class Apart (A review). J Rice Res. 3(4): 1-8. doi:[10.4172/2375-4338.S1-002](https://doi.org/10.4172/2375-4338.S1-002).

MUHAMMAD ASHFAQ¹, HAFIZ UMAR FAROOQ¹, MUHAMMAD SABAR², *AMNA ALI¹ & MUHAMMAD ALI (2015).Molecular Screening of Aroma Genes in Indigenous and Exotic Rice Germplasm. *Biologia (Pakistan)* 61 (2): 313-317.

Paper published in the year 2014

Muhammad Ashfaq, Muhammad Saleem Haider, Amna Ali, Muhammad Ali, Sana Hanif and Urooj Mubashar, 2014. Screening of Diverse Germplasm for Genetic Studies of Drought Tolerance in Rice (*Oryza sativa* L). *Caryologia*, 67 (4): 296-304.

Amna Ali, Muhammad Saleem Haider and **Muhammad Ashfaq**, 2014. Bacterial diversity in some selected agricultural food products. *Bangladesh J. Bot.* Vol, 43(2): 219-222.

Muhammad Ashfaq, Amna Ali, Muhammad Saleem Haider, Muhammad Ali, Muhammad Abdullah and Urooj Mubashar. 2014. A Role of Weed Solvents on Seed Priming of Diverse Rice Germplasm Lines. *JOURNAL OF PURE AND APPLIED MICROBIOLOGY*, Vol 8 No 3:2175-2184.

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