

Curriculum Vitae

Name : MUHAMMAD JAVED
Father's Name : QAIM-UD-DIN
Date of Birth : January 1, 1985
Marital Status : Married
Domicile : Muzaffargarh, Punjab, Pakistan
N.I.C. No. : 32303-7765084-9
Nationality : Pakistani
Religion : Islam
Cell Phone : +92-300-374-83-67
E-mail : muhammad.javed@ue.edu.pk



Present Address:

Department of Botany, University of Education, Lahore, Campus Dera Ghazi Khan,
Kangan Road Dera Ghazi Khan

Permanent Address:

Basti Dauna Post office Basira Tehsil Kot Addu District Muzaffargarh

Qualifications:

Academic					
Degree/ Certificate	Institution	Year	CGPA/ Marks Obtained	%age	Division
Ph.D	B.Z. University Multan	2021	CGPA=3.30/4	82	1 st
M.Phil	B.Z. University Multan	2009	CGPA=4.01/5	80	1 st
M.Sc	B.Z. University Multan	2006	CGPA=3.88/5	78	1 st
B.Sc	B.Z University Multan	2004	461/800	58	2 nd
F.Sc	BISE Dera Ghazi Khan	2002	729/1100	66	1 st
Matric	BISE Dera Ghazi Khan	2000	670/850	79	1 st

Professional Qualification:

Degree/ Certificate	Institution	Year	Marks Obtained	%age	Division
M.Ed	A.I.O.U, Islamabad	2013	793/1200	66	1 st
B.Ed	A.I.O.U, Islamabad	2008	662/900	73	1 st

Distinctions/ Honors:

- 4th position in M.Sc Botany from Institute of Pure and Applied Biology, Bahauddin Zakariya University, Multan
- 1st position in Matric at Govt. High School Douna (Muzaffargarh)

Teaching experience:

- Served as Lecturer in Biology at Punjab Higher Education Department from 27-08-2012 to 21-11-2016
- Served as Lecturer in Botany at University of Education, Lahore, Campus Dera Ghazi Khan since 22-11-2016 to 22-12-2022
- Working as Assistant Professor of Botany, University of Education, Lahore, Campus Dera Ghazi Khan since 22-12-2022

Non-teaching/Admin experience:

- Working as Incharge Internal Examinations, University of Education, Lahore, Campus Dera Ghazi Khan since 01-10-2018
- Working as Coordinator, Department of Botany, University of Education, Lahore, Campus Dera Ghazi Khan since 14-02-2023

Thesis Supervision:

- HEC approved supervisor
- Supervised research students at BS level

Publications:

1. Amir Ijaz, Zahid Anwar, Muhammad Irshad, Zafar Iqbal, Muhammad Arshad, **Muhammad Javed**, Muhammad Zulfiqar Ahmad, Abdul Rehman, and Aftab Ahmad (2014). Purification and kinetic characterization of statistically optimized cellulase produced from *Aspergillus niger*. Romanian Biotechnological Letters, 19(6): 9835-9845.
2. Habib-ur-Rehman Athar, Sarah Ambreen, **Muhammad Javed**, Mehwish Hina, Sumaira Rasul, Zafar Ullah Zafar, Hamid Manzoor, Chukwuma C. Ogbaga, Muhammad Afzal, Fahad Al-Qurainy and Muhammad Ashraf (2016). Influence of sub-lethal crude oil concentration on growth, water relations and photosynthetic capacity of maize (*Zea mays* L.) plants. Environmental Science and Pollution Research, 23:18320–18331.
3. Muhammad Iqbal, Habib-ur-Rehman Athar, Muhammad Ibrahim, **Muhammad Javed**, Zafar Ullah Zafar and Muhammad Ashraf (2019). Leaf proteome analysis signified that

photosynthesis and antioxidants are key indicators of salinity tolerance in canola (*Brassica napus* L.). Pakistan Journal of Botany, 51(6): 1955-1968.

4. Ahsan Ayyaz, Misbah Amir, Sarah Umer, Muhammad Iqbal, Hussan Bano, Hafiza Saima Gul, Yamna Noor, Aneela Kanwal, Ayesha Khalid, **Muhammad Javed**, Habib Rehman Athar, Zafar Ullah Zafar and Muhammad Ahsan Farooq (2020). Melatonin induced changes in photosynthetic efficiency as probed by OJIP associated with improved chromium stress tolerance in canola (*Brassica napus* L.). Heliyon, 6(7): e04364.
5. Sadia Bashir, Misbah Amir, Faiza Bashir, **Muhammad Javed**, Adnan Hussain, Saba Fatima, Rabia Parveen, Aneela Kanwal Shahzadi, Shehrooz Afzal, Shumaila Raza, Tooba Horain, Ayesha Iqbal, Ayesha Pervaiz, Atiq-ur-Rehman, Ahsan Ayyaz, Zafar Ullah Zafar and Habib-ur-Rehman Athar (2021). Structural and functional stability of photosystem-II in *Moringa oleifera* under salt stress. Australian Journal of Crop Science, 15(5): 676-682.
6. Nadeem Hussain, Abdul Ghaffar, Zafar Ullah Zafar, **Muhammad Javed**, Kausar Hussain Shah, Sibgha Noreen, Hamid Manzoor, Muhammad Iqbal, Islam Frahat Zaky Hassan, Hussan Bano, Hafiza Saima Gul, Misbah Aamir, Ayesha Khalid, Younas Sohail, Muhammad Ashraf and Habib-ur-Rehman Athar (2021). Identification of novel source of salt tolerance in local bread wheat germplasm using morpho-physiological and biochemical attributes. Scientific Reports, 11(1): 10854.
7. Ahsan Ayyaz, Yamna Noor, Hussan Bano, Muhammad Awais Ghani, **Muhammad Javed**, Muhammad Iqbal, Zafar Ullah Zafar and Muhammad Ahsan Farooq (2021). Effects of exogenously applied melatonin on growth, photosynthesis, ion accumulation and antioxidant capacity of canola (*Brassica napus* L.) under chromium stress. Pakistan Journal of Botany, 53(5): 1561-1570.
8. **Muhammad Javed**, Muhammad Ashraf, Muhammad Iqbal, Muhammad Ahsan Farooq, Zafar Ullah Zafar and Habib-ur-Rehman Athar (2021). Chlorophyll fluorescence, ion uptake, and osmoregulation are potential indicators for detecting ecotypic variation in salt tolerance of *Panicum antidotale* Retz. Arid Land Research and Management, 35(3).
9. Ahsan Ayyaz, Muhammad Ahsan Farooq, Muhammad Dawood, Abdul Majid, **Muhammad Javed**, Habib-ur-Rehman Athar, Hussan Bano and Zafar Ullah Zafar. (2021). Exogenous melatonin regulates chromium stress-induced feedback inhibition of photosynthesis and antioxidative protection in *Brassica napus* cultivars. Plant Cell Reports, 40(11): 2063-2080.
10. **Muhammad Javed**, Muhammad Iqbal, Hussan Bano, Nadeem Hussain, Abdul Ghaffar, Zafar Ullah Zafar, Altaf Hussain, Muhammad Abdullah, Ahsan Ayyaz, Muhammad Ahsan Farooq, Muhammad Ashraf and Habib-ur-Rehman Athar(2024). Photosynthetic acclamatory response of *Panicum antidotale* Retz. populations to root zone desiccation stress. Brazilian Journal of Biology, 84(4): e 252735.

11. Shehrooz Afzal, Misbah Amir, Sanobar Shadab Qamar, Ayesha Tariq, **Muhammad Javed**, Zafar Ullah Zafar and Habib ur Rehman Athar (2021). Correlation and heritability studies of yield and yield related traits in F5 *Triticum aestivum* lines from a cross Cv Fsd-08 × Cv S-24. *Journal of Cereal Research*, 13(3): 287-294.
12. Misbah Amir, Nahidah Bashir, Shehrooz Afzal, Habib-ur-Rehman Athar, Zafar ullah Zafar, Seema Mahmood, Ali Sher Kashif, Talou e Islam Inqalabi, Ahsan Ayyaz, Iqra Rasheed, Zahida Asghar, Khadija Zafar, **Muhammad Javed**, Muhammad Iqbal and Maleeha Kashif (2022). Chlorophyll “a” fluorescence of *Zea mays* L. (maize) cultivars that differ in degree of their drought tolerance. *Journal of Cereal Research*, 14(1). 106-119.
13. Nadeem Hussain, Younas Sohail, Nasir Shakeel, **Muhammad Javed**, Hussan Bano, Hafiza Saima Gul, Zafar Ullah Zafar, Islam Frahat Zaky Hassan, Abdul Ghaffar, Habib-ur-Rehman Athar and Rahaf Ajaj (2022). Role of mineral nutrients, antioxidants, osmotic adjustment and PSII stability in salt tolerance of contrasting wheat genotypes. *Scientific Reports*, 12(1): 12677.
14. Ahsan Ayyaz, Rouyi Fang, Junyi Ma, Fakhir Hannan, Qian Huang, Habib-ur-Rehman Athar, Yongqi Sun, **Muhammad Javed**, Shafaqat Ali, Weijun Zhou and Muhammad Ahsan Farooq (2022). Calcium nanoparticles improve drought stress tolerance in *Brassica napus* by modulating the photosystem II, nutrient acquisition and antioxidant performance. *NanoImpact*, 28(1): 100423.
15. Muhmmad Zaheer, Zafar Ullah Zafar, Habib-ur-Rehman Athar, Hussan Bano, Misbah Amir, Ayesha Khalid, Hamid Manzoor, **Muhammad Javed**, Muhammad Iqbal, Chukwuma C. Ogbaga and Muhammad Kamran Qureshi (2022). Mixing tannery effluent had fertilizing effect on growth, nutrient accumulation and photosynthetic capacity of some cucurbitaceous vegetables: A little help from foe. *Environmental Science and Pollution Research*, 29(59).
16. Ghulam Mustafa, Asia Iqbal, Arshad Javid, Waqas Ali, Nisar Ahmad, Muhammad Saleem, Muhammad Farooq, Muhammad Farooq, Sadam Hussain, Ahmad Ali, Muhammad Khalid, Vijay Lal, Sheikh Muhammad Azam, **Muhammad Javed** and Fatima Sughra (2022). Morphological and genetic characterization of various *Apis* species captured from selected sites of Punjab. *Fresenius Environmental Bulletin*, 31(12): 11259-11269.
17. Abdul Ghaffar, Nadeem Hussain, Rahaf Ajaj, Suzan Marwan Shahin, Hussan Bano, Muhammad Javed, Ayesha Khalid, Memona Yasmin, Kausar Hussain Shah, Muhammad Zaheer, Muhammad Iqbal, Zafar Ullah Zafar and Habib ur Rehman Athar (2023). Photosynthetic activity and metabolic profiling of bread wheat cultivars contrasting in drought tolerance. *Frontiers in Plant Science*, 14.

Book Chapter

1. Zafar Ullah Zafar, Hamid Manzoor, Sumaira Rasul, Sibgha Noreen, Qasim Ali, Muhammad Iqbal, **Muhammad Javed**, Hafiza Saima Gul, Zara Ahmad, Faisal Shahzad, Chukwuma C. Ogbaga, Habib-ur-Rehman Athar and Muhammad Ashraf (2017). Strategies to improve crop salt and drought tolerance: Success and limitations. Quality and quantum improvement in field crops, pp. 265-298. Agribios, New Dehli, India.

Conference/Symposium/Webinar Participation:

- National symposium on plant stress and Human life, February 16, 2015 GC, University, Faisalabad, Campus Layyah.
- International conference on major environmental constraints: Assessment and their reclamation, April 28-30, 2016 GC, University, Faisalabad.
- International conference on sustainable agriculture: food security under changing climate scenarios, April 3-5, 2019, Ghazi University, Dera Ghazi Khan.
- International webinar on ecosystem restoration, June 5, 2021, Department of Botany, Division of Science and Technology, University of Education, Lahore.
- International conference on recent approaches in plant sciences, March 30-31, 2022 University of Education, Lahore.
- International webinar on the invaluable value of plant genetics resources, November 11, 2022, Agriculture, MDPI.

Workshop Participation:

- Modern techniques in research on abiotic stress tolerance in plants, March 10-14, 2014, Pakistan Atomic Energy Commission (PAEC), Nuclear Institute for Agriculture and Biology (NIAB), Faisalabad.
- Capacity building program for teaching faculty of PHEC institutions, Qasim Ali Shah foundation Lahore.

Member Association:

Life time member of Botanical Society of Pakistan

Life time member of Zakariyan Association of Botanists, Bahauddin Zakariya University, Multan, Pakistan

Apparatus Handling:

Chlorophyll meter (SPAD)
Multi speq (Photosyn Q)
Pocket PEA Chlorophyll Fluorimeter
FluorPen
Dual PAM
Spectrophotometer
Centrifuge

Flame Photometer
Infrared Gas Analyzer (IRGA)
Water potential apparatus (Pressure Bomb chamber)
Osmometer
Polymerase Chain Reaction (PCR)
Gel Electrophoresis system (Agarose & SDS PAGE)

Research Interest:

Plant Stress Physiology
Plant Molecular Biology

Computer Skills:

Microsoft Office (MS word, MS EXCEL, MS Power Point), Internet Surfing

Statistical tools:

COSTAT, MINITAB, MS EXCEL, Origin Pro, Graph Pad Prism

Sports:

Actively participate in various sports, particularly in Cricket.

References:

- **Prof. Dr. Habib-ur-Rehman Athar**
Institute of Botany, Bahauddin Zakariya University, Multan.
E-mail: habibathar@bzu.edu.pk; habibathar@yahoo.com
Phone No. +92-322-610-75-40
- **Prof. Dr. Zafar Ullah Zafar**
Institute of Botany, Bahauddin Zakariya University, Multan
E-mail: zafarullah@bzu.edu.pk; zafarbzu@yahoo.com
Phone No. +92-345-737-55-06