

CURRICULUM VITAE

DR. AMIN ULLAH JAN

Higher Education Commission Approved PhD Supervisor

Email: aminjan@sbbu.edu.pk

Cell #: 0092-301-8910377

WhatsApp: 0092-301-8910377

Google Scholar link:

<https://scholar.google.com/citations?user=CSCBSREAAAJ&hl=en>

Mailing address: Department of Biotechnology, Shaheed BB
University, Sheringal Dir (Upper), Khyber
Pakhtunkhwa, Pakistan

Permanent address: Village and Post Office Sher Khani Distt. Dir Lower
Khyber Pakhtunkhwa, Pakistan

PRESENT POSITION: Assistant Professor, Department of Biotechnology,
Shaheed Benazir Bhutto University Sheringal Dir Upper,
KPK, Pakistan

RESEARCH INTERESTS: Plant Molecular Biology, Phytotechnology,
Bioremediation, Proteomics, Dehydration Stress
Tolerance, Plant Physiology, Plant Breeding and
Genetics, Plant Biotechnology

EDUCATION:

Degree/ Certificate	Year	Subject	University/Board
PhD	2016	Biotechnology	University of Malakand
MPhil	2011	Plant Breeding and Genetics	The Agricultural University Peshawar
BS (Hons)	2008	Biotechnology	University of Malakand
FSc	2002	Pre-Medical	BISE Swat
SSC	2000	Science	BISE Swat

MPHIL SCHOLARS SUPERVISED:

S. No.	Name of the Scholar
1.	Shehzad Zakki
2.	Iftikhar Ahmad
3.	Rehan Shah (Co-Supervised)

BS SUPERVISION: Supervised 20 students

THESIS REVIEWED AS EXTERNAL EXAMINER:

05 from University of Swat and two from University of Malakand

REVIEWER OF INTERNATIONAL JOURNALS:

1. Environmental Science and Pollution Research Journal
2. Pakistan Journal of Zoology
3. Journal of Agronomy and Crop Science
4. Pakistan Journal of Botany
5. Heliyon
6. Brazilian Journal of Biology
7. International Journal of Plant Biology & Research

GRANTS:

1. Biochemical and Molecular Characterization of Potato (*Solanum tuberosum* L.) Varieties for Drought and Salt Stress Tolerance. *Funded by Higher Education Commission, Pakistan, 2017. As PI (Completed).*
 2. Phytoremediation of Heavy Metal Contaminated Soil for Improving Food Safety. *As PI.*
 3. Molecular Characterization of Heat Stress Tolerance in Tomato (*Lycopersicon sculentum* Mill). *Submitted to Higher Education Department, KPK. As PI.*
-

Country visited: United Kingdom (UK) and Kingdom of Saudi Arabia KSA)

TEACHING INTEREST: Phyto/Bioremediation, Environmental Biotechnology, Plant Biotechnology, Cell Biology, Molecular Physiology of Abiotic Stresses Tolerance, Molecular Biology, Molecular Techniques, Bioinformatics, Tissue Culture, Biochemistry, Plant Breeding Techniques

TEACHING EXPERIENCE:

- **22/12/2016 till date: Assistant Professor SBBU Sheringal Dir Upper**
- **01/09/2013 to 01/03/2014: Lecturer in Malakand College Chakdara**
- **01/10/2012 to 01/07/2013: lecturer in Medicaid Institute of Technology**

Chakdara

- 01/10/2011 to 01/07/2012: Subject Specialist in Faran Public School
Chakdara
 - 01/08/2009 to 01/08/2010: lecturer in Institute of Biotechnology and
Genetic Engineering, KPK Agricultural University Peshawar
-

PUBLICATIONS:

1. Sadeeq Ullah, **Amin Ullah Jan**, Shiyong Wang (2023). Potential of biochar as a sustainable amendment for contaminated soils: Emerging trends and prospects. **Submitted to Science of Total Environment.**
2. Kainat, Waqar Khan, Alamgir Khan and **Amin Ullah Jan** (2023). Effect of different concentrations of Pyridoxine on physiological indices of *Brassica rapa* varieties. **Vegetos.**
3. Sadeeq Ullah, Shiyong Wang and Changping Li and **Amin Ullah Jan** (2023) Recent Developments in Designing Cu-Based Electrocatalysts and Advanced Strategies for Electrochemical Nitrate Reduction to Ammonia. Journal of Environmental Chemical Engineering. (IF: 7.7).
4. Sadeeq Ullah, Qingling Liu, Shiyong and **Amin Ullah Jan** (2023). *Sources, impacts, factors affecting Cr uptake in plants, and mechanisms behind phytoremediation of Cr-contaminated soils.* Science of the Total Environment. (IF: 9.8).
5. Rehan Shah, Raham Sher khan, **Amin ullah Jan** (2023). Plant growth regulators with a balanced supply of nutrients enhance the phytoextraction efficiency of *Parthenium hysterophorus* for cadmium in contaminated soil. ACS Omega (IF: 4.1).
6. Tayyaba Behram, Sidra Pervez, Muhammad Asif Nawaz, Shujaat Ahmad, **Amin Ullah Jan.** (2023). Development of Pectinase Based Nanocatalyst by Immobilization of Pectinase on Magnetic Iron Oxide Nanoparticles using Glutaraldehyde as Crosslinking Agent. Molecules. (IF: 4.6)
7. Shakeel Ahmad 1, Fazal Hadi, **Amin Ullah Jan**, Raza Ullah, Bedur Faleh A. Albalawi. (2022). Appraisal of Heavy Metals Accumulation, Physiological Response, and Human Health Risks of Five Crop Species Grown at Various Distances from Traffic Highway. Sustainability. (IF: 3.9)
8. F. Mabood, F. Hadi, **Amin Ullah Jan**, A Ditta, Z Islam, MH Siddiqui, HM Ali, AEL Sabagh. (2022). Assessment of Pb and Ni and potential health risks associated with the consumption of vegetables grown on the roadside soils in District Swat, Khyber Pakhtunkhwa, Pakistan. Environmental Monitoring & Assessment. (IF: 3)
9. Rizwan Ahmad, fazal Hadi, **Amin Ullah Jan** and Allah Ditta (2022). Straw incorporation in contaminated soil enhance drought tolerance but simultaneously

- increase the accumulation of heavy metals in rice. Sustainability. (IF: 3.9)
10. Muhammad Suleman, Ali Raza Balouch, Asfand Yar Waheed Randhawa, **Amin Ullah Jan (2022)**. Characterization of Proteome-wide antigenic epitopes to design proteins specific and proteome-wide ensemble vaccines against Heartland Virus using structural vaccinology and immune simulation approaches. Microbial Pathogenesis. (IF: 3.8)
 11. **Amin Ullah Jan**, Fazal Hadi and Allah Ditta (2021). Zinc-induced anti-oxidative defense and osmotic adjustments enhanced drought stress tolerance in sunflower (*Helianthus annuus* L.) Environmental and Experimental Botany. (IF: 5.7).
 12. **Amin Ullah Jan**, Fazal Hadi and Abdullah Shah (2021). Plant growth regulators and EDTA improve phytoremediation potential and antioxidant response of *Dysphania ambrosioides* (L.) Mosyakin & Clemants in a Cd-spiked soil. Environmental Science and Pollution Research. (IF: 5.8)
 13. Muhammad Tariq, Arif Ullah Khan, Aziz Ur Rehman, Sadeeq Ullah, **Amin Ullah Jan (2021)**. Green synthesis of Zn o@GO nano composite and its' efficient antibacterial activity. Photodiagnosis and Photodynamic Therapy. (IF: 3.3)
 14. Naseer Ullah, Allah Ditta, Muhammad Imtiaz, Xiaomin Li, **Amin Ullah Jan (2021)**. Appraisal for organic amendments and plant growth- promoting rhizobacteria to enhance crop productivity under drought stress. Journal of Agronomy and Crop Science. (IF: 3.5)
 15. Sadeeq Ullah, Shahin S. Khan, Yanru Ren, Xu Zhang, Meng Qin, Xin Xiong, Rumen Krastev, **Amin Ullah Jan (2021)**. Near-infrared laser 808-nm excitable palladium nano-dots loaded on graphene oxide hybrid for the antibacterial activity. Applied Organometallic Chemistry. (IF:3.9)
 16. Abdullah Shaha, Farooq Rashidb, Abdul Azizc, Amin Ullah Jan (2020), Genetic characterization of structural and open reading Fram-8 proteins of SARS-CoV-2 isolates from different countries. Gene Reports.
 17. Irshad Ullah & Allah Ditta, Muhammad Rizwan and **Amin Ullah Jan (2020)**. Assessment of health and ecological risks of heavy metal contamination: a case study of agricultural soils in Thall, Dir-Kohistan. Environ Monit Assess. (IF: 3)
 18. Allah Ditta, Naseer Ullah, **Amin Ullah Jan (2020)**. Zn biofortification in crops through Zn-solubilizing plant growth-promoting rhizobacteria. Book Chapter.
 19. Muhammad Ikram Khan, Ziaul Islam, **Amin ullah Jan (2019)**. Seroepidimiology of toxoplasma gondii infection in child bearing age women in Dir Khyber Pakhtunkhawa Pakistan. Pakistan Journal of Zoology.(IF: 0.7)
 20. Raza Ullah, Fazal Hadi, Shakeel Ahmad, **Amin Ullah Jan** and Qiu Rongliang (2019). Phytoremediation of Lead and Chromium Contaminated Soil Improves with the

Endogenous Phenolics and Proline Production in Parthenium, Cannabis, Euphorbia, and Rumex Species. *Water Air Soil Pollut.* 230:40. (IF: 2.98)

21. **Amin Ullah Jan** and Fazal Hadi (2019). Role of potassium, zinc and gibberellic acid in increasing drought stress tolerance in sunflower (*Helianthus Annuus* L.). *Pakistan Journal of Botany.* (IF: 1.2).
22. Sadeeq Ullah, Aftab Ahmad, Fazli Subhan and **Amin Ullah Jan** (2018). Tobramycin mediated silver nanospheres/graphene oxide composite for synergistic therapy of bacterial infection. *Journal of Photochemistry & Photobiology, B: Biology* 183, 342–348. (IF: 5.4)
23. **Amin Ullah Jan**, Fazal Hadi, Alam Zeb and Ziaul Islam (2017). Identification and quantification of phenolic compounds through reversed phase HPLC-DAD method in sunflower seeds under various treatments of potassium nitrate, zinc sulphate and gibberellic acid. *Food Measure.* (IF: 3.4)
24. **Amin Ullah Jan**, Fazal Hadi, Midrarullah, Muhammad Asif Nawaz, Khaista Rahman. (2017). Potassium and zinc increase tolerance to salt stress in wheat (*Triticum aestivum* L.). *Plant Physiology and Biochemistry.* 116, 139-149. (IF: 6.5)
25. Ayaz Ahmad, Fazal Hadi, Nasir Ali and **Amin Ullah Jan** (2016). Enhanced phytoremediation of cadmium polluted water through two aquatic plants *Veronica anagallis aquatica* and *Epilobium laxum*. Published in *Environ Sci Pollut Res.* (IF: 5.8).
26. Sadeeq Ullah, Aftab Ahmad, Aoke Wang, Muslim Raza, **Amin Ullah Jan**, Kamran Tahir, Aziz Ur Rahman, Y uan Qipeng (2017). Bio-fabrication of catalytic platinum nanoparticles and their in vitro efficacy against lung cancer cells line (A549). *Journal of Photochemistry and Photobiology,* 173, 368-375. (IF: 5.4).
27. Fazli Subhan, Ayaz Khan, Fazli Wahid, Adeeb Shehzad and **Amin Ullah Jan** (2011). Determination of Optimal Toxic Concentration and Accumulation of Cadmium in Broiler Chicks. *Toxicol. Res.* Vol. 27, No. 3, pp. 143-147. (IF: 2.3)
28. Muhammad Ali, Amin Ullah Jan, Hidayat Ullah, Fawad Khan, Syed Muhammad Ibrahim, Liaqat Ali and Shakil Ahmad (2010). Fruit Properties and Nutritional Composition of Some Walnut Cultivars Grown in Pakistan. *Pakistan Journal of Nutrition.* (IF: 0.6)
29. Ayaz Ahmad, Fazal Hadi, Nasir Ali and **Amin Ullah Jan** (2017). Phytoextraction and Translocation of Cadmium in Saline Soil by *Hemerocallis fulva* and *Dodonaea viscosa* Plants. *Res Rev Biosci.* 12(2):124
30. **Amin Ullah Jan**, Fazal Hadi, Midrarullah, Ayaz Ahmad, Khaista Rahman (2017). Role of CBF/DREB Gene Expression in Abiotic Stress Tolerance. *International Journal*

- of Horticulture & Agriculture. 2(1). 1-12.
31. **Amin Ullah Jan**, Raziuddin, Midrarullah, Shariat Ullah (2017). Combining ability and correlation studies in 6×6 diallel crosses of sunflower (*Helianthus annuus* L.). International Journal of Agronomy and Agricultural Research. Vol. 10, No. 5, p. 9-16.
 32. Nadeem Ullah, Fazal Hadi, Farman Ullah, **Amin Ullah Jan** (2017). Analysis of heavy metals (Pb and Cd) in soil, peach fruit and its accumulation in human blood. International Journal of Agronomy and Agricultural Research. Vol. 10, No. 4, p. 24-32.
 33. Ayaz Ahmad, Fazal Hadi, Habib Ahmad, **Amin Ullah Jan** (2017). Salinity in soil increased cadmium uptake and accumulation potential of two terrestrial plants. International Journal of Biosciences. Vol. 10, No. 3, p. 132-142.
 34. Muhammad Iftikhar, Sohail Akhter, Muhammad Subhan Qureshi, **Amin ullah Jan** (2017). Effect of aniseed (*Pimpinella anisum* L.) supplementation on milk composition, blood biochemical profile and productive performance of Damani goats. International Journal of Biosciences. Vol. 10, No. 5, p. 165-171.
 35. Ziaul Islam, Sarzamin Khan, **Amin Ullah Jan** (2017). Comparative study of egg quality traits in local breeds and commercial lines of chickens. International Journal of Biosciences. Vol. 10, No. 2, p. 1-5.
 36. Amin Ullah Jan and Fazal Hadi (2016). Determination of oil content and fatty acids profile in sunflower seeds through near infra-red spectroscopy under various treatments of potassium nitrate, zinc sulphate and gibberellic acid. International Journal of Biosciences. 9: 22-31.
 37. Khaista Rahman, Abbas Khan, Muhammad Nisar, **Amin Ullah Jan** (2016). Phytosociological study on *Isodon rugosus* dominated communities in Khwazakhela district Swat, KPK, Pakistan. International Journal of Biosciences. Vol. 9, No. 6, p. 292-302.
 37. Amin Ullah Jan and Fazal Hadi (2015). Salinity stress tolerance improved with free proline and total phenolic contents under foliar application of potassium, zinc and gibberellic acid in varieties of sunflower (*Helianthus annuus* L.) American-Eurasian J. Agric. & Environ. Sci., 15 (9): 1835-1844.
 38. Amin Ullah Jan, Khan Said, Ajmal Iqbal, Ayaz Ahmad, Khaista Rahman, Abdul Razzaq (2015). International Journal of Biosciences. Vol. 4, No. 6, p. 1-5.
 39. Mian Sayed Bahar, Muhammad Ullah, Haidar Ali, Ayaz Ahmad, Amin Ullah Jan (2015). Distribution and indigenous use pattern of *Quercus* Kspecies in Malam Jabba Valley Swat. J. Bio. & Env. Sci. Vol. 7, No. 5, p. 180-189.
 40. Khaista Rahman, Muhammad Nisar, **Amin Ullah Jan**, Muhammad Suliman, Ajmal Iqbal, Ayaz Ahmad, Rukhsana Ghaffar (2015). Antibacterial activity of important medicinal plants on human pathogenic bacteria. International Journal of Agronomy and

Agricultural Research. Vol. 6, No. 6, p. 106-111.

41. Mohammad Nabi, Mohammad Ullah, **Amin Ullah Jan** and Ayaz Ahmad (2015). Study on regeneration status of *Dodonaea viscosa* in forest of Malakand division. International Journal of Biosciences. Vol. 6, No. 2, p. 64-70.
42. Fazal Hadi, Sana Ullah, Fazal Hussain, Ayaz Ahmad, **Amin Ullah Jan**, Nasir Ali (2014). Nitrogen fertilizer and EDTA effect on *Cannabis sativa* growth and Phytoextraction of heavy metals (Cu and Zn) contaminated soil. International Journal of Agronomy and Agricultural Research Vol. 4, No. 6, p. 85-90.
43. Amir Wahid, Fazal Hadi, and **Amin Ullah Jan** (2014). In-vitro assessment of tomato (*Lycopersicon esculentum*) and Cauliflower (*brassica oleracea*) seedlings growth and proline Production under salt stress. International Journal of Biosciences. Vol. 4, No. 9, p. 109-115.
44. Fazal Hadi, Muhammad Ayaz, Sartaj Ali, Muhammad Shafiq, Rizwan Ullah, **Amin Ullah Jan** (2014). Comparative effect of polyethylene glycol and mannitol induced drought on growth (In-vitro) of canola (*Brassica napus*), cauliflower (*Brassica oleracea*) and tomato (*Lycopersicon esculentum*) seedlings. International Journal of Biosciences. Vol. 4, No. 9, p. 34-41.
45. Ayaz Ahmad, **Amin Ullah Jan**, Fazal Hadi and Aftab Ali Shah (2014). Analysis of genetic variation in *Pinus* species using SDS-page. International Journal of Biosciences. Vol. 4, No. 7, p. 140-147.

ABSTRACT PUBLISHED IN SCIENTIFIC MEETINGS

- a. **Amin Ullah Jan** and Fazal Hadi. Analysis of Frost Resistance of sunflower varieties by Comparing Freezing Survival of Whole Plants and the Hygroscopicity of mature seeds. Submitted to Russian Journal of Plant Physiology. Ist International Conference on “Digitization and Documentation of Plant Natural Resources in Chitral, Pakistan
- b. **Amin Ullah Jan**, Fazal Hadi and Midrarullah. Drought stress tolerance enhanced by zinc-induced anti-oxidative defense and osmotic adjustment in sunflower (*Helianthus annus L.*). 7th National Conference titled “Biodiversity Conservation, Livelihood and Sustainable Development”. July 10-12, 2017.
- c. **Amin Ullah Jan**, Fazal Hadi and Midrarullah. Potassium and Zinc increase tolerance to salt stress in wheat (*Triticum aestivum L.*). First International conference on “Plants; Their Chemical and Biological Applications for Today and Tomorrow” 12-14th, April, 2017.
- d. **Amin Ullah Jan** and Fazal Hadi. Physiological and biochemical characteristics of saltstress tolerance in selected varieties of sunflower under various treatments

of potassium, zinc and gibberellic acid. 13th International Phytotechnologies Conference (PHYTOTECH 2016). 26-29 September 2016, at the Zhijiang Hotel in Hangzhou.

AWARDS AND PROFESSIONAL AFFILIATION

- i. Travel Grant to United Kingdom from Higher Education Commission Pakistan
- ii. Member of Pakistan Biological Safety Association.
- iii. Reviewer of scientific Journals
- iv. HEC Approved PhD Supervisor
- v. Member of Board of Study

CO- CURRICULAR ACTIVITIES:

- Member of editorial team of Biotechnology and Biomedical Engineering Journal
- Organizer of the 1st National symposium on biotechnology; Recent advances (21-24 May 2007), Department of Biotechnology, University of Malakand.
- Organizer of the 1st International symposium on Biotechnology; Current Trends (2-4 July, 2008), Department of Biotechnology, University of Malakand.
- General Secretary of SPADO, Youth for Peace of the campus.
- Member of UMEED Blood Donating Society, University of Malakand.

REFERENCE:

1. Dr. Fazal Hadi
(PhD Supervisor)
Department of Biotechnology
University of Malakand Dir Lower Pakistan
Cell No +92-347-6873779
Email: dr.fhadi@uom.edu.pk