Curriculum Vitae

D R . S A M I U L L A H

Chairman/Associate Professor
Department of Botany
University of Peshawar
Pakistan

RESEARCH SPECIALIZATION

1. Plant Physiology and Phytohormones
2. Plant Microbe's Interaction
3. Phytochemistry and Pharmacology

PERSONAL BIODATA

NIC # : 16101-1016811523-1
Date of Birth : April 10, 1983
Nationality : Pakistani
Domicile : District Mardan
Place of Birth : Mardan
Gender : Male
Marital Status : Married
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ACADEMIC CARRIER

- **Ph.D** (Plant Physiology) 2013
  Phytohormones Lab, Department of Plant Sciences,
  Quaid-I-Azam University, Islamabad.
- **M.Phil** (Plant Physiology) 2009
  Phytohormones Lab, Department of Plant Sciences,
  Quaid-I-Azam University, Islamabad.
- **M.Sc. (**Botany)
  Department of Botany, University of Peshawar, Peshawar. 2006
- **M.Ed.**
  I.E.R. (University of Peshawar, Peshawar) 2007

RELEVANT EXPERIENCE

- Administrative Experience as "Head of Department" in the Department of Botany University of Peshawar, Pakistan since Sept 27, 2024 till date.
- Teaching and research experience as "Associate Professor" in the Department of Botany University of Peshawar, Pakistan since Sept 01, 2022 till date.
- Teaching and research experience as "Assistant Professor" in the Department of Botany University of Peshawar, Pakistan since Sept 01, 2016 till August 31, 2022.
- Teaching and research experience as "Assistant Professor" in the Department of Botany, Bacha Khan University, Charsadda, Pakistan since Sept, 2013 till 31 August, 2016.

- Two years teaching experience as "Lecturer" in Higher Education Department Pakistan.

AWARDS/DISTINCTION

1. **Recognized Distinguished Pakistani Researchers and Scientists Award** by HEC. 27.04.2026
2. **Patent** awarded by IPO, Pakistan.
3. Visiting research scholar under (IRSIP programe) to the College of Pharmacy, **Hawaii University, USA**.
4. HEC travel award for the participation and presentation in an international conference 2011-ICEBB held on August 19-21, 2011 in **Shanghai, China.**
5. Pakistan Science Foundation travel award for the participation and presentation in an international conference 2012-ICAPS held on August 14-18, 2012 in **Chiang Mai, Thailand.**
6. Higher Education Commission (HEC) of Pakistan Indigenous **PhD Fellowship** in Batch-IV, 2007.
7. Quaid-i-Azam University **Merit Scholarship** during M.phil/MS.

COUNTRIES VISITED

1. USA 2. China 3. Thailand 4. Sri Lanka

THESIS DISSERTATION

1. **Ph.D Thesis** entitled as "Physiological, phytochemical and pharmacological studies of the selected halophytes collected from their natural biotopes of KP, Pakistan".
2. **M.Phil Thesis** entitled as "Physiological characterization and antimicrobial activity of the selected halophytes of District Mardan".

PATENT AWARDED BY IPO, PAKISTAN

1. **Patent No: 141852. Method for extracting anticancerous compounds from *Suaeda fruticosa* IPO, Pakistan.**

RESEARCH PAPERS PUBLISHED

1. Waqar Younas, Hina Khan, Humera Amin, Sami Ullah, Abd Ullah, Usman Ali, Muhammad Nafees, Fazal Amin, Iftikhar Ahmed, Tanveer Hussain, Mohamed Taha Yassin, Rashid Iqbal. 2026. Synergistic Role of Plant Growth-Promoting Rhizobacteria and Zinc Ferrite Nanoparticles in Mitigating Mercury Stress in Chickpea (*Cicer arietinum* L.). Water, Air, & Soil Pollution, 237 (3), 139.
2. A Ullah, S Ahmad, MA Azeem, S Ullah, S Ullah, M Laiq, A Shah, H Shao. 2026. Microbial Dream Team: Cotton Performs Better in Salty Soil with Pseudomonas hunanensis RT-12 and Staphylococcus caprae DS-2. Current Microbiology, 83 (1), 31.

3. Amin, F., El-Beltagi, H.S., Ullah, S. *et al.* 2025. Germination and Agronomic Response of Radish (*Raphanus sativus* L.) to Temperature and Osmotic Potential via Hydrothermal Time Model. *Russ J Plant Physiol* **72**, 34. https://doi.org/10.1134/S102144372460925X.
4. Amin, F., Ullah, S. 2025. Biochar and Salicylic Acid Improve Agronomic Performance and Physiological Traits of *Vigna Radiata* L. Varieties (Ramzan and NIFA2019) Under Induced Salt Stress. *J Soil Sci Plant Nutr*. https://doi.org/10.1007/s42729-025-02700-9.
5. Abid Ullah, Sami Ullah, Yasir Arafat, Hua Shao. 2025. Endophytes-mediated mitigation of sodium stress in plants via ABA-independent signaling pathways. Plant Physiology and Biochemistry, 229, Part B, 110476, ISSN 0981-9428. https://doi.org/10.1016/j.plaphy.2025.110476.
6. Muhammad Nafees, Ikram Khan, Sami Ullah, Iftikhar Ahmed. 2025. Synergistic Effects of Zinc Ferrite Nanoparticles and Plant Growth Promoting Rhizobacteria in Alleviating Lead Toxicity in Mungbean. *Folia Microbiologica* (Accepted).
7. Asmat Ali, Sami Ullah, Muhammad Nafees. 2025. Biochar and tocopherol co-application enhances drought tolerance in sunflower (Helianthus annuus) through antioxidant regulation and osmolytes accumulation, Biocatalysis and Agricultural Biotechnology, 69, 2025. https://doi.org/10.1016/j.bcab.2025.103817.
8. Sami Ullah, Muhammad Khalid, Muhammad Nafees, Fazal Amin, Sidra Khan Durrani, Usman Ali. Seed priming as a mitigation strategy for drought stress: Impacts on germination, growth, and antioxidant activity in sweet pepper (*Capsicum annuum* L.). Biocatalysis and Agricultural Biotechnology, 69, 2025, 103808. https://doi.org/10.1016/j.bcab.2025.103808.
9. Sadaf, Ullah, S., Shah, S. *et al.* 2025. Foliar Application of Ascorbic Acid and α-Tocopherol Enhances Salinity Tolerance in *Hordeum vulgare* L. by Regulating Antioxidant Enzymatic Activity and Improving Physiological and Biochemical Responses. *Journal of Crop Health* **77**, 123 (2025). https://doi.org/10.1007/s10343-025-01182-0.
10. Zada, J., Ullah, S. ., Shah, S. ., Shahana, Hazrat, A. ., Ahmad, I. ., Raza, H. ., & Khaliq, M. (2025). Phytochemical Screening, Pharmacological Profiling and Identification of Potential Therapeutic Applications of Rosa multiflora: Therapeutic Applications of Rosa Multiflora. *Phytopharmacology Research Journal*, *4*(1), 19–29. Retrieved from https://ojs.prjn.org/index.php/prjn/article/view/89.
11. Barkatullah, Saira Faiz, Shah Khalid, Sami Ullah and Muhammad Nafees. 2025. Comparative Pharmacognostic and Pharmacological Profiling of Honey Obtained from Different Plant Sources. Pak. j. sci. ind. res. Ser. B: biol. sci. 68B(1) 84-98.
12. Taqi, S., Ullah, S., El-Beltagi, H. S., Shalaby, T. A., Ismail, A. M., El-Mogy, M. M., Amin, F., & Ali, U. (2024). Exploring germination, anatomical and agronomic responses of *Vigna radiata* L. to temperature and osmotic potential via halothermal time model. *Russian Journal of Plant Physiology, 71*(1), 231. **(Impact Factor Journal)**
13. Sher, A. A., Iqbal, A., Adil, M., Shah, Z., Butt, Z. A., Ullah, S., Nafees, M., & Sohni, S. (2024). Phytochemical profile and pharmacological potential

of *Withania somnifera* whole plant extracts. *Biomedical Chromatography*, 38(10), e5968. https://doi.org/10.1002/bmc.5968. **(Impact Factor Journal)**

14. Ullah, I., Ullah, S., Amin, F. *et al.* Germination responses of *Lens Culiunaris* L. seeds to osmotic potentials at cardinal temperatures using hydrothermal time model. *BMC Plant Biol* 24, 502 (2024). https://doi.org/10.1186/s12870-024-05223-0. **(Impact Factor Journal)**
15. Saeed, S., Ullah, S., Amin, F. *et al.* Salicylic acid and Tocopherol improve wheat (*Triticum aestivum* L.) Physio-biochemical and agronomic features grown in deep sowing stress: a way forward towards sustainable production. *BMC Plant Biol* 24, 477 (2024). https://doi.org/10.1186/s12870-024-05180-8. **(Impact Factor Journal)**
16. El-Beltagi, H.S., Tariq, T., Ullah, S. *et al.* Describing the Germination of *Lens culinaris* Response to Osmotic Potential and Temperature Using the Halo-thermal Time Model. *Russ J Plant Physiol* **71**, 3 (2024). https://doi.org/10.1134/S1021443723602975. **(Impact Factor Journal)**
17. Amin, F., AL-Huqail, A.A., Ullah, S. *et al.* Mitigation effect of alpha-tocopherol and thermo-priming in *Brassica napus* L. under induced mercuric chloride stress. *BMC Plant Biol* **24**, 108 (2024). https://doi.org/10.1186/s12870-024-04767-5. **(Impact Factor Journal)**
18. Javid, M., Ullah, S., Amin, F. *et al.* Computing the effects of temperature and osmotic stress on the seed germination of *Helianthus annuus* L. by using a mathematical model. *Sci Rep* **14**, 9978 (2024). https://doi.org/10.1038/s41598-024-60015-8. **(Impact Factor Journal)**
19. Lalay, G.; Ullah, A.; Iqbal, N.; Raza, A.; Asghar, M.A.; Ullah, S.; 2022. The alleviation of drought-induced damage to growth and physio-biochemical parameters of Brassica napus L. genotypes using an integrated approach of biochar amendment and PGPR application. Environment, Development and Sustainability. 26:3457–3480. https://doi.org/10.1007/s10668-022-02841-2 **(Impact Factor Journal)**
20. Jehan Zada, Ali Hazrat, Sami Ullah, Muhammad Nafees, Zahid Ullah, Ikram Ullah. 2024. Ameliorative effect of Brassinosteroids and Biochar on Morpho-Physiological attributes of Tomato (*Lycopersicon esculentum* Mill.) under Induced Drought Stress. *Journal of Population Therapeutics & Clinical Pharmacology*. 31(2): (2433-2455). **(Impact Factor Journal)**
21. Rahim, Z., A. Iqbal, M. Imran, S. Ullah and M. Nafees. 2024. Enhancing Phytoremediation Efficiency for Heavy Metal-Contaminated Soil Using Parthenium hysterophorus L.: A Sustainable Approach for Environmental Restoration. Pakistan Journal of Agricultural Sciences.61:317-326. **(Impact Factor Journal)**
22. FazalAmin, Fakhra Shah, Sami Ullah, Wadood Shah, IftikharAhmed, BaberAli, Amir Abdullah Khan, Tabarak Malik and Abd El-Zaher M.A. Mustafa. 2024. Scientifc Reports. (2024) 14:3225. https://doi.org/10.1038/s41598-024-53129-6. **(Impact Factor Journal)**
23. Gul-Lalay, Sami Ullah, Sikandar Shah, Aftab Jamal, Muhammad Farhan Saeed, Adil Mihoub, Adil Zia, Iftikhar Ahmed, Mahmoud F. Seleiman, Roberto Mancinelli, Emanuele Radicetti. 2024. Combined Efect of Biochar

and Plant Growth-Promoting Rhizbacteria on Physiological Responses of Canola (Brassica napus L.) Subjected to Drought Stress. Journal of Plant Growth Regulation https://doi.org/10.1007/s00344-023-11219-1. **(Impact Factor Journal)**

24. Noor Zaman, Sami Ullah, Wadood Shah, Muhammad Nauman Khan, Baber Ali, Amjad Ali, Fethi Ahmet Ozdemir, & Gaweł Sołowski. (2023). Bioactive Compounds via in vitro Culture Approach and Pharmacological Attributes of Genus Euphorbia: A Comprehensive Review. *Proceedings of the Pakistan Academy of Sciences: B. Life and Environmental Sciences*, *60*(4), 565–584. https://doi.org/10.53560/PPASB(60-4)874. **(Impact Factor Journal)**
25. Muhammad Nafees, Sami Ullah and Iftikhar Ahmed. 2023. Plant growth-promoting rhizobacteria and biochar as bioeffectors and bioalleviators of drought stress in faba bean (*Vicia faba* L.). Folia Microbiologica https://doi.org/10.1007/s12223-023-01103-6. **(Impact Factor Journal)**
26. Sulaiman, Sami Ullah, Shah Saud, Ke Liu, Matthew Tom Harrison, Shah Hassan, Taufiq Nawaz, Muhammad Zeeshan, Jamal Nasar, Imran Khan, Haitao Liu, Muhammad Adnan, Sunjeet Kumar, Muhammad Ishtiaq Ali, Asif Jamal, Mo Zhu, Naushad Ali, Sardar Ali, Khaled El-Kahtany, Shah Fahad. 2023. Germination response of Oat (Avena sativa L.) to temperature and salinity using halothermal time model. Plant Stress. 10 (2023),100263, ISSN 2667-064X. https://doi.org/10.1016/j.stress.2023.100263. **(Impact Factor Journal)**
27. Ijaz ul Haq, Sami Ullah, Fazal Amin, Muhammad Nafees, Wadood Shah, Baber Ali, Rashid Iqbal, Alevcan Kaplan, Mohammad Ajmal Ali, Mohamed S. Elshikh, and Sezai Ercisli. 2023. Physiological and Germination Responses of Muskmelon (Cucumis melo L.) Seeds to Varying Osmotic Potentials and Cardinal Temperatures via a Hydrothermal Time Model. ACS Omega. https://doi.org/10.1021/acsomega.3c01100. **(Impact Factor Journal)**
28. Waqif Khan, Sumbal Shah, Abd Ullah, Sami Ullah, Fazal Amin, Babar Iqbal, Naveed Ahmad, Mostafa A. Abdel-Maksoud, Mohammed k. Okla, Mohamed El-Zaidy, Wahidah H. Al-Qahtani and Shah Fahad. 2023. Utilizing hydrothermal time models to assess the effects of temperature and osmotic stress on maize (*Zea mays* L.) germination and physiological responses. *BMC Plant Biol* **23**, 414. https://doi.org/10.1186/s12870-023-04429-y. **(Impact Factor Journal)**
29. Ghulam Mustafa Afridi; Naseem Ullah; Sami Ullah; Muhammad Nafees; Abid Khan; Raheem Shahzad; Rashid Jawad; Muhammad Adnan; Ke Liu; Matthew Tom Harrison et al.2023. Modulation of salt stress through application of citrate capped silver nanoparticles and indole acetic acid in maize**.** 10.1016/j.plaphy.2023.107914**.** *Plant Physiology and Biochemistry* **(Impact Factor Journal)**
30. Shumaila Sami Ullah, Wadood Shah, Aqsa Hafeez, Baber Ali, Shahid Khan, Sezai Ercisli, Abdullah Ahmed Al-Ghamdi, and Mohamed S. Elshikh. 2023. Biochar and Seed Priming Technique with Gallic Acid: An Approach toward Improving Morpho-Anatomical and Physiological Features of Solanum melongena L. under Induced NaCl and Boron Stresses. ACS Omega. https://doi.org/10.1021/acsomega.3c01720. **(Impact Factor Journal)**

31. Saleha Saeed, Abd Ullah, Sami Ullah, Mohamed S Elshikh, Javaria Noor, Sayed M. Eldin, Fanjiang Zeng, Fazal Amin, Mohammad Ajmal Ali, and Iftikhar Ali. 2023. Salicylic Acid and α-Tocopherol Ameliorate Salinity Impact on Wheat. ACS Omega. https://doi.org/10.1021/acsomega.3c02166. **(Impact Factor Journal)**
32. Sami Ullah, Muhammad Ishaq Khan, Muhammad Nauman Khan, Usman Ali, Baber Ali, Rashid Iqbal, Abdel-Rhman Z Gaafar, Bandar M. AlMunqedhi, Sarah Abdul Razak, Alevcan Kaplan, Sezai Ercisli, and Fathia A. Soudy. 2023. Efficacy of Naphthyl Acetic Acid Foliar Spray in Moderating Drought Effects on the Morphological and Physiological Traits of Maize Plants (Zea mays L.). ACS Omega. DOI: 10.1021/acsomega.3c00753. **(Impact Factor Journal)**.
33. Hussain Ahmad Kakar, Sami Ullah, Wadood Shah, Baber Ali, Sanam Zarif Satti, Rehman Ullah, Zahir Muhammad, Sayed M. Eldin, Iftikhar Ali, Mona S. Alwahibi, Mohamed S. Elshikh, and Sezai Ercisli. 2023. Seed Priming Modulates Physiological and Agronomic Attributes of Maize (Zea mays L.) under Induced Polyethylene Glycol Osmotic Stress. *ACS Omega* **Article ASAP**. DOI: 10.1021/acsomega.3c01715. **(Impact Factor Journal)**
34. Shah, N.A., Ullah, S., Nafees, M. Exogenous Effect of Sugar Beet Extract On Physio-biochemical Traits of *Hordeum vulgare* L. Under Induced Salinity Stress. *Gesunde Pflanzen* (2023). https://doi.org/10.1007/s10343-023-00894-5. **(Impact Factor Journal)**.
35. Shumaila, Ullah, S. & Nafees, M. Biochar Application to Soil and Seed Pre-Soaking on Growth, Yield and Physiological Response of *Solanum melongena* L. Under Induced Abiotic Stresses. *J Plant Growth Regul* (2023). https://doi.org/10.1007/s00344-023-10990-5. **(Impact Factor Journal)**
36. Ali, U., Ullah, S. & Nafees, M. 2023. Resistance Induction in Chickpea (*Cicer arietinum* L.) Against Salinity Stress through Biochar as a Soil Amendment and Salicylic Acid-Induced Signaling. *Gesunde Pflanzen*. https://doi.org/10.1007/s10343-023-00851-2. **(Impact Factor Journal)**
37. Nafees, M., Ullah, S. & Ahmed, I. 2023. Bioprospecting Biochar and Plant Growth Promoting Rhizobacteria for Alleviating Water Deficit Stress in *Vicia faba* L. *Gesunde Pflanzen*. https://doi.org/10.1007/s10343-023-00875-8. **(Impact Factor Journal)**
38. Fazal Amin, Sami Ullah, Shah Saud, Muhammad,Zahid Ihsan, Shah Hassan, Sunj eet Kumar, Taufiq Nawaz, MatthewTom Harrison, Ke Liu, Imran Khan, Haitao Li u, Khaled El-Kahtany, Shah Fahad. 2023. Hydrothermal time analysis of mung bean (*Vigna radiata* (L.) Wilczek seed germination at different water potential and temperatures. South African Journal of Botany. 157 (447-456). **(Impact Factor Journal)**

39. Gul-Lalay, S. Ullah, M. Nafees, I. Ahmed. 2023. Resistance induction in Brassica napus L. against water deficit stress through application of biochar and plant growth promoting rhizobacteriaBrassica napus L. against water deficit stress through application of biochar and plant growth promoting rhizobacteria. Journal of the Saudi Society of Agricultural Sciences, https://doi.org/10.1016/j.jssas.2023.04.001. **(Impact Factor Journal).**
40. Ullah A, Ali I, Noor J, Zeng F, Bawazeer S, Eldin SM, Asghar MA, Javed HH, Saleem K, Ullah S and Ali H (2023) Exogenous g-aminobutyric acid (GABA) mitigated salinity-induced impairments in mungbean plants by regulating their nitrogen metabolism and antioxidant potential. Front. Plant Sci. 13:1081188. doi: 10.3389/fpls.2022.1081188. **(Impact Factor Journal)**.
41. Ali, U.; Ullah, S.; 2022. Hydrothermal time model analysis of seed germination responses to osmotic stress and temperatures in Cicer arietinum L. varieties. Journal of Xi'an Shiyou University, Natural Science Edition. 18(12): 1279-1287. http://xisdxjxsu.asia. **(Impact Factor Journal)**.
42. Raees, N.; Ullah, S.; Nafees, M. 2022. Interactive Effect of Tocopherol, Salicylic Acid and Ascorbic Acid on Agronomic Characters of Two Genotypes of Brassica napus L. Under Induced Drought and Salinity Stresses. Gesunde Pflanzen. https://doi.org/10.1007/s10343-022-00808-x. **(Impact Factor Journal)**
43. Ullah, A.; Tariq, A.; Zeng, F.; Sardans, J.; Graciano, C.; Ullah, S.; Chai, X.; Zhang, Z.; Keyimu, M.; Asghar, M.A.; et al. Phosphorous Supplementation Alleviates Drought-Induced Physio-Biochemical Damages in Calligonum mongolicum. Plants 2022, 11, 3054. https://doi.org/10.3390/ plants11223054. **(Impact Factor Journal)**
44. Ali, S.; Ullah, S.; Khan, M.N.; Khan, W.M.; Razak, S.A.; Hafeez, A.; Bangash, S.A.K.; Poczai, P. The Effects of Osmosis and Thermo-Priming on Salinity Stress Tolerance in Vigna radiata L. Sustainability. 2022, 14, 12924. https://doi.org/10.3390/su141912924. **(Impact Factor Journal)**
45. S. Bibi, S. Ullah, Aqsa Hafeez, M. N. Khan, M. A. Javed, B. Ali, I. U. Din, S. A. K. Bangash, S. Wahab, N. Wahid, F. Zaman, S. K. Alhag, I. H. A. Abd. El-Rahim, A. E. Ahmed and S. Selimm. 2024. Exogenous Ca/Mg quotient reduces the inhibitory effects of PEG induced osmotic stress on Avena sativa L. Brazilian Journal of Biology, 2024, 84, e264642, https://doi.org/10.1590/1519-6984.264642. **(Impact Factor Journal)**
46. Arshad, K.; Ullah, A.; Ullah, S.; Bogari, H.A.; Ashour, M.L.; Noor, J.; Amin, F.; Shah, S. Quantifying Osmotic Stress and Temperature Effects on Germination and Seedlings Growth of Fenugreek (Trigonella foenum-graecum L.) via Hydrothermal Time Model. Sustainability 2022, 14, 12049. https://doi.org/10.3390/su141912049. **(Impact Factor Journal)**
47. El-Beltagi, H.S.; Sulaiman; Mohamed, M.E.M.; Ullah, S.; Shah, S. Effects of Ascorbic Acid and/or α-tocopherol on Agronomic and Physio-biochemical Traits of Oat (Avena sativa L.) under Drought Condition. Agronomy 2022, 12, 2296. https://doi.org/10.3390/ agronomy12102296. **(Impact Factor Journal)**
48. Wadood Shah, Noor Zaman, Sami Ullah and Muhammad Nafees. 2022. Calcium chloride enhances growth and physio-biochemical performance of barley (Hordeum vulgare L.) under drought-induced stress regimes: a future perspective

of climate change in the region. Journal of Water and Climate Change; 13(9), 3357 doi: 10.2166/wcc.2022.134. **(Impact Factor Journal)**

49. Jalal Khan, Sami Ullah, Sikandar Shah, Sadaf, Sheharyar Khan, Sulaiman. 2022. Modeling the upshots of induced temperature and water stress on germination and seedlings length of radish (Raphanus sativus L.) via hydrothermal time model. Vegetos https://doi.org/10.1007/s42535-022-00490-4. **(Impact Factor Journal)**
50. El-Beltagi, H.S.; Shah, S.; **Ullah, S.**; Sulaiman; Mansour, A.T.; Shalaby, T.A. Impacts of Ascorbic Acid and Alpha-Tocopherol on Chickpea (Cicer arietinum L.) Grown in Water Deficit Regimes for Sustainable Production. Sustainability 2022, 14, 8861. https://doi.org/ 10.3390/su14148861. **(Impact Factor Journal)**
51. Saeed, S.; Ullah, A.; **Ullah, S.**; Noor, J.; Ali, B.; Khan, M.N.; Hashem, M.; Mostafa, Y.S.; Alamri, S. Validating the Impact of Water Potential and Temperature on Seed Germination of Wheat (Triticum aestivum L.) via Hydrothermal Time Model. Life 2022, 12, 983. https:// doi.org/10.3390/life12070983. **(Impact Factor Journal)**
52. Shakir, U, U.; **Ullah, S**.; khan, M. N.; Ali, S.; Ali, U., Zaman, A.; Razak, S. A.; Ozdemir F. A. 2022. Effect of Thermopriming and Alpha-Tocopherol Spray in Triticum aestivum L. under Induced Drought Stress: A Future Perspective of Climate Change in the Region. Sains Malaysiana 51(4)(2022): 977-991. http://doi.org/10.17576/jsm-2022-5104-03. **(Impact Factor Journal).**
53. Khan, S.; Ullah, A.; **Ullah, S**.; Saleem, M.H.; Okla, M.K.; Al-Hashimi, A.; Chen, Y.; Ali, S. Quantifying Temperature and Osmotic Stress Impact on Seed Germination Rate and Seedling Growth of Eruca sativa Mill. via Hydrothermal Time Model. Life 2022, 12, 400. https://doi.org/10.3390/ life12030400. **(Impact Factor Journal).**
54. Noor, J.; Ullah, A.; Saleem, M.H.; Tariq, A.; **Ullah, S**.; Waheed, A.; Okla, M.K.; Al-Hashimi, A.; Chen, Y.; Ahmed, Z.; et al. Effect of Jasmonic Acid Foliar Spray on the MorphoPhysiological Mechanism of Salt Stress Tolerance in Two Soybean Varieties (Glycine max L.). Plants 2022, 11, 651. https://doi.org/10.3390/ plants11050651. **(Impact Factor Journal).**
55. Ullah, A.; Sadaf, S.; **Ullah, S**.; Alshaya, H.; Okla, M.K.; Alwasel, Y.A.; Tariq, A. Using Halothermal Time Model to Describe Barley (Hordeumvulgare L.) Seed Germination Response to Water Potential and Temperature. Life 2022, 12, 209. https://doi.org/10.3390/ life12020209. **(Impact Factor Journal)**.
56. Showler, A. T., Shah, S., Sulaiman., Khan, S., **Ullah, S**., Degola, F. 2022. Desert Locust Episode in Pakistan, 2018–2021, and the Current Status of Integrated Desert Locust Management. Journal of Integrated Pest Management, (2022) 13(1): 1; 1–11 https://doi.org/10.1093/jipm/pmab036. **(Impact Factor Journal)**.
57. Nafees, M., **Ullah, S**., & Ahmed, I. (2022). Modulation of drought adversities in Vicia faba by the application of plant growth promoting rhizobacteria and biochar. Microscopy Research and Technique,1–14. https://doi. org/10.1002/jemt.24047. **(Impact Factor Journal)**.
58. Shah S, **Ullah S**, Ali S, Khan A, Ali M, Hassan S (2021) Using mathematical models to evaluate germination rate and seedlings length of chickpea seed (Cicer arietinumL.) to osmotic stress at cardinal temperatures. PLoS ONE 16(12):

e0260990.https://doi.org/10.1371/journal. pone.0260990. **(Impact Factor Journal)**.

59. Lalay, G., **Ullah, S**., & Ahmed, I. (2021). Physiological and biochemical responses of Brassica napus L. to drought-induced stress by the application of biochar and Plant Growth Promoting Rhizobacteria. Microscopy Research and Technique,1–15. https://doi.org/10.1002/jemt.23993. **(Impact Factor Journal)**.
60. **Ullah, S**., Ali, S., Binte Abid, A., & Nafees, M. (2021). Modulating response of Zea mays to induced salinity stress through application of nitrate mediated silver nanoparticles and indole acetic acid. Microscopy Research and Technique,1–11. https://doi.org/10.1002/jemt.23982. **(Impact Factor Journal)**.
61. Nafees, M., Barkatullah, **Ullah, S**., & Ikram, N. (2021). Phytochemical and pharmacognostic studies of Buddleja asiatica leaves. Microscopy Research and Technique, 1–11. https://doi.org/10.1002/jemt.23924. **(Impact Factor Journal)**
62. Shah W, **Ullah S**, Ali S, Idrees M, Khan MN, Ali K, et al. (2021) Effect of exogenous alphatocopherol on physio-biochemical attributes and agronomicperformance of lentil (Lens culinaris Medik.) under drought stress. PLoS ONE 16(8): e0248200.https://doi.org/10.1371/journal. pone.0248200. **(Impact Factor Journal).**
63. Nafees, M., **Ullah, S**., & Ahmed, I. (2021). Morphological and elemental evaluation of biochar through analytical techniques and its combined effect along with plant growth promoting rhizobacteria on Vicia faba L. under induced drought stress. Microscopy Research and Technique,1–13. https://doi.org/10.1002/jemt.23854. **(Impact Factor Journal)**.
64. **S. Ullah**, Afzal.I, Shumaila, Shah, W. 2021. Effect of naphthyl acetic acid foliar spray on the physiological mechanism of drought stress tolerance in maize (Zea Mays L.). Plant Stress. 2(2021):100035. **(ISI Master List)**
65. Dilawar, N. Asad, F. Shahid, S. **Ullah, S**. Wisal. 2021. Role of hydroxyl benzoic acid foliar spray on amelioration of lead tolerance on Triticum aestivum L. Pure and Applied Biology. 10(3), 861-871. http://dx.doi.org/10.19045/bspab.2021.100088. **(ISI Master List)**
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79. Shumaila and **Ullah, S.** 2019. A quantitative assessment of germination parameters: the case of *Capsicum annuum* L. International Journal of Botany Studies. 4(5): 61-68. **(ISI Master List).**
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84. **Sami Ullah**. 2017. Methanolic extract from Lespedeza bicolor: potential candidates for natural antioxidant and anticancer agent. *Journal of Traditional Chinese Medicine*. 15; 37(4): 444-451. **(Impact Factor Journal)**.
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87. Shafqat Ali Khan, Muhammad Ibrar, Barkatullah and **Sami Ullah**. 2017. Antibacterial activity of Rhus succedanea Var. Himalaica. Pure Appl. Biol., 6(2): 718-724. **(HEC Recognized)**
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97. **Samiullah** and A. Bano. 2015. Isolation of PGPRS from Rhizospheric Soil of Halophytes and its Impact on Maize (*Zea mays* L.) Under Induced Soil Salinity. *Canadian journal of microbiology*. 61: 307-313 (2015) dx.doi.org/10.1139. **(Impact Factor Journal)**
98. Shah Fahad, Saddam Hussain, Shah Saud, Mohsin Tanveer, Ali Ahsan Bajwa, Shah Hassan, Adnan Noor Shah, Abid Ullah, Chao Wu, Faheem Ahmed Khan, Farooq Shah, **Sami Ullah**, Yajun Chen, Jianliang Huang. 2015. A biochar application protects rice pollen from high-temperature stress. *Plant Physiology and Biochemistry.* 96: 281-287. doi:10.1016/j.plaphy.2015.08.009. **(Impact Factor Journal)**
99. **Samiullah** and A. Bano. 2015. Physiological mechanism of salt tolerance in *Suaeda fruticosa* collected from high saline fields of KPK, Pakistan. *Communication in soil science and plant analysis*. 46:1212–1228. **(Impact Factor Journal)**
100. Sajjad Ali, Ehsan Ali, Kashif Ali, Adnan Noor Shah, **Sami Ullah** and Wisal Muhammad Khan. 2015. Effect of Ascorbic Acid on the Wilting and Resistance of Capsicum Annum L. Plant. *Journal of Biology, Agriculture and*

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106. Mashwani. R. Z, M.A. Khan, M. Ahmad, M. Zafar, N. I. Raja, M. Arshad and **Samiullah** 2012. Macro-mineral quantification of the forage grass species in the gandgar hills, western himalaya, pakistan. *Pak. J. Bot*., 44: 117-121. **(Impact Factor Journal)**
107. Yasmin. H, A. Bano and **Samiullah,** 2012. Screening of PGPR isolates from Semi-arid region and their implication to alleviate Drought stress. *Pak. J. Bot*., 45(SI): 51-58. **(Impact Factor Journal)**
108. **Samiullah,** Asghari Bano and Rizwana Aleem Qureshi. 2012. Morphological and physiological characterization of *Lespedeza bicolor* turcz, from katlang region district mardan, Pakistan. *pak. j. bot*., 44(5): 1663-1668, 2012. **(Impact Factor Journal)**
109. Yasmin. H, A. Bano, **Samiullah**, R. Naz, U. Farooq, A. Nosheen and S. Fahad. 2012. Growth promotion by P-solubilizing, siderophore and bacteriocin producing rhizobacteria in *Zea mays* L. *Journal of Medicinal Plants Research*: 6(3), pp. 553-559. **(Impact Factor Journal).**
110. **Samiullah**, Asghari Bano, Sisay Girmay and Ghee Tan. 2012. Total phenolic content, antioxidant, antimicobial and anticancer Activities of *Lespedeza Bicolor* Turcz (Papilionaceae) *ICALS*, Turkey, September 10-12, 2012.
111. **Samiullah** and Asghari Bano, 2011. *In vitro* inhibition potential of four chenopod halophytes against microbial growth. *Pak. J. Bot*., 43: 115-119. **(Impact Factor Journal)**

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113. **Samiullah** and Asghari Bano, 2011. *In Vitro* Inhibition Potential of *Lespedeza bicolor* Turcz against Selected Bacterial and Fungal Strains. *Journal of Medicinal Plants Research:* 5(16), pp. 3708-3714. **(Impact Factor Journal)**

114. Naz. R, A. Bano, H. Yasmin, **Samiullah** and U. Farooq, 2011. Antimicrobial Potential of the Selected Medicinal Plant Species against Some Infectious Microbes Used. *Journal of Medicinal Plants Research:* 5(21), pp. 5247-5253. **(Impact Factor Journal)**

115. **Samiullah** and Asghari Bano, 2011. Physiological and Biochemical Analysis of the Selected Halophytes of District Mardan, Pakistan. *International Journal of Bioscience, Biochemistry and Bioinformatics,* 1: 4 PP. 239-243.

RESEARCH SUPERVISION

- M.Sc/BS Research Students Supervised 36
- On-going M.Sc/BS Research Students 14
- M.Phil Produced under Supervision 10
- On-going M.Phil Research under Supervision 07
- On-going M.Phil Research under Co-Supervision 07
- Ph.D Produced under Supervision 05
- On-going Ph.D Research under Supervision 03
- On-going Ph.D Research under Co-Supervision 02

ABSTRACTS PUBLISHED IN THE CONFERENCES

1. Effect of Nephthyl acetic acid foliar spray on amelioration of drought stress tolerance in Maize (*Zea mays* L.) 3rd International Conference on Emerging trends in Bioinformatics and Biosciences (ICETBB2015)" to be held in Mohammad Ali Jinnah University, Islamabad on October 3rd, 2015 **(Oral presentation)**.
2. Pharmacological and phytochemical screening of *Lespedeza bicolor* collected from high saline fields of District Mardan. International biodiversity conference 20-21th October, 2014, AJK University, Muzafarabad. **(Oral presentation).**
3. Characterization of biologically active constituent of *Suaeda fruticosa*. 4th International and 13th National conference of Botany 27th -30th August, 2014 SBBU, Sheringal. **(Oral presentation).**
4. Isolation of PGPR from rhizospheric soil of halophytes and its impact on Maize (*Zea mays L.*) under induced soil salinity. 4th International and 13th National conference of Botany 27th -30th August, 2014 SBBU, Sheringal. **(Oral presentation).**
5. Physiological mechanism of salt tolerance in Suaeda fruticosa collected from high saline fields of KPK, Pakistan. 4th International and 13th National conference of Botany 27th -30th August, 2014 SBBU, Sheringal. **(Oral presentation).**

6. Screening of PGPR isolates from Semi-arid region and their implication to alleviate Drought stress. 3rd International Conference of Botany 1st – 3rd September 2012, **(Oral presentation).**
7. Potential anticancer and antimicrobial activities of *lespedeza bicolor* turcz (papilionaceae) related to its strong antioxidant system. 3rd International Conference of Botany 1st – 3rd September 2012, **(Poster presentation).**
8. Traditional ethnobotanical uses of halophytes collected from Katlang region District Mardan, Pakistan. 3rd International Conference of Botany 1st – 3rd September 2012, **(Poster presentation).**
9. A New Report of *Lespedeza Bicolor* Turcz: From Pakistan "11th National Meeting of Plant Scientist 21 -24th Feb 2011.
10. Antioxidant, Antimicrobial and Antifungal activities of Halophytes of the Family Chenopodiaceae "1st National Conference of Biotechnology and Microbiology 4 - 7th July 2010.
11. Assessment of Phytoremediation Potential of *Lespedeza Bicolor*: A Halophytic Weed. 3rd International Weed Science Conference of Weed Science Society of Pakistan April 18-20, 2011.
12. Comparison of the physiological responses of four selected halophytic weeds collected from district Mardan. 3rd International Weed Science Conference of Weed Science Society of Pakistan April 18-20, 2011.
13. Traditional ethnobotanical uses of halophytes from District Mardan, K.P.K, Pakistan. National Symposium on Biodiversity of Pakistan, June 07- 09, 2011.
14. Oxidative stress tolerance, osmolites and phytohormonal estimation of *Atriplex leucoclada* and *Haloxylon salicornicum*. International Conference on Prospects and Changallenges to Sustainable Agriculture 14th -16th July, 2011.

PAPER PRESENTED IN THE CONFERENCES

1. Screening of PGPR isolates from Semi-arid region and their implication to alleviate Drought stress. 3rd International Conference of Botany 1st – 3rd September 2012, **(Oral presentation).**
2. Pharmacological and phytochemical screening of *Lespedeza bicolor* collected from high saline fields of District Mardan. International biodiversity conference 20-21th October, 2014, AJK University, Muzafarabad. **(Oral presentation).**
3. Characterization of biologically active constituent of *Suaeda fruticosa*. 4th International and 13th National conference of Botany 27th -30th August, 2014 SBBU, Sheringal. **(Oral presentation).**
4. Isolation of PGPR from rhizospheric soil of halophytes and its impact on Maize (*Zea mays L.*) under induced soil salinity. 4th International and 13th National conference of Botany 27th -30th August, 2014 SBBU, Sheringal. **(Oral presentation).**

5. Physiological mechanism of salt tolerance in Suaeda fruticosa collected from high saline fields of KPK, Pakistan. 4th International and 13th National conference of Botany 27th -30th August, 2014 SBBU, Sheringal. **(Oral presentation).**
6. Potential anticancer and antimicrobial activities of *lespedeza bicolor* turcz (papilionaceae) related to its strong antioxidant system. 3rd International Conference of Botany 1st – 3rd September 2012, **(Poster presentation).**
7. Traditional ethnobotanical uses of halophytes collected from Katlang region district mardan, Pakistan. 3rd International Conference of Botany 1st – 3rd September 2012, **(Poster presentation).**
8. A New Report of *Lespedeza Bicolor* Turcz: From Pakistan "11th National Meeting of Plant Scientist 21 -24th Feb 2011, **(Poster presentation).**
9. Antioxidant, Antimicrobial and Antifungal activities of Halophytes of the Family Chenopodiaceae "1st National Conference of Biotechnology and Microbiology 4 - 7th July 2010. **(Oral presentation).**
10. Assessment of Phytoremediation Potential of *Lespedeza Bicolor*: A Halophytic Weed. 3rd International Weed Science Conference of Weed Science Society of Pakistan April 18-20, 2011. **(Oral presentation).**
11. Comparison of the physiological responses of four selected halophytic weeds collected from district Mardan. 3rd International Weed Science Conference of Weed Science Society of Pakistan April 18-20, 2011. **(Oral presentation).**
12. Traditional ethnobotanical uses of halophytes from District Mardan, K.P.K, Pakistan. National Symposium on Biodiversity of Pakistan, June 07- 09, 2011. **(Oral presentation).**
13. Evaluation of Oxidative Stress Tolerance, Growth Responses, Osmolites and Phytohormonal Estimation of the Selected Halophytes **(Oral Presentation in ICEBB August 19-21, 2011 Shanghai, China).**
14. Sulforhodamine B (SRB) assays related to antioxidant and Antimicrobial evaluation of *suaeda fruticosa* **(Oral Presentation in ICAPS Chiang Mai, Thailand.**
15. Oxidative stress tolerance, osmolites and phytohormonal estimation of *Atriplex leucoclada* and *Haloxylon salicornicum*. International Conference on Prospects and Changallenges to Sustainable Agriculture 14th -16th July, 2011. International Conference, Rawlakot Kashmir).

SEMINARS, CONFERENCES, WORKSHOPS ATTENDED

1. Phytochemical Scoiety of North America 50th anniversary meeting, December 10-15, 2011 on **Kohala Cost, Hawaii, USA.**
2. Laboratory safety training for handling radio-isotopes December 7, 2011 at BCR **Rainbow Drive Hawaii, USA.**
3. Environmental biosafety training December 20-23, 2011 at Scout Building near Amiloa Astronomy center, **Hawaii, USA.**

4. International Conference on Environmental, Biomedical and Biotechnology-ICEBB held on August 19-21, 2011 in **Shanghai, China,** sponsored by Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEES).
5. International conference 2012-ICAPS held on October 14-18, 2012 in **Chiang Mai, Thailand.**
6. 9th Biennial PSBMB Conference on Advances in Biochemistry and Molecular Biology. Held at PMAS Arid Agriculture University **Rawalpindi**, 17th to 20th December, 2008**.**
7. 25th Training Course on "Use of Nuclear and other Techniques in Food & Agricultural Research" Held at Nuclear Institute for Food & Agriculture (NIFA), **Peshawar** on 03rd to 14th November, 2008.
8. Olive Oil Production in Pakistan; Results and Way Forwarded, Held at PMAS Arid Agriculture University **Rawalpindi**, 8th April, 2009.
9. Certificate achieved in a workshop organized by the joint collaboration of HEC & University of **Peshawar** on "Training of Trainer for Bio-Diversity Conservation".
10. International workshop on "Bioethics Education in Pakistan: Necessity not Luxury" held at **Comstech Secretariat Islmabad**, 27th to 29th March, 2008.
11. "Biosecurity/Food Safety Enhancement Programme" held at Quaid-I-Azam University **Islamabad**, Feb/March, 2009.
12. 11th National Meeting of Plant Scientists (NMPS) and 2nd International Conference of Plant Scientists (ICPS-2011) held on 22nd to 24th Feburary, 2011 at **GC University Lahore**.
13. 3rd International Weed Science Conference of Weed Science Society of Pakistan held on 18th -20th April, 2011 at **Agricuture University Peshawar**.
14. National Symposium on Biodiversity of Pakistan held on June 07- 09, 2011 at Margala hotel, **Islamabad**, Organized by PMNH, Pakistan.

REVIEWER OF THE JOURNALS

- International journal of agricultural policy and research
- International journal of pharmaceutical science and research
- Merit journal of medicine and medical sciences
- International Journal of Ecology and Eco-solution.
- African Journal of Agricultural Research
- Sky Journal of Biochemistry Research
- Scientific Research and Essays

MEMBERSHIP

- Pakistan Botanical Society
- International center for genetic engineering and biotechnology
- UAE cancer congress secretariat
- USA Fogarty international (NIH)
- SILAE (Italo-Latin American Society of Ethnomedicine)
- Springer Publisher
- Weed science society Pakistan

- COMSTECH Pakistan

FIELDS OF INTEREST

- Newly discovered plant hormones bioassays, pathways and signal transduction in halophytes
- Pharmacological studies of the medicinal plants including bioassay guided isolation of metabolites.
- Protein Profiling of halophytes by using SDS-Phage
- Phytochemical analysis of halophytes
- Isolation and Characterization of rhizospheric soil microbes from halophytes
- Antioxidant activities of halophytes

COURSES STUDIED IN M.PHIL & PH.D

- Phytohormones and Plant Growth
- Advances in plant Physiology
- Plant Microbes interaction
- Advances in Plant taxonomy
- Phytochemistry
- Medicinal plants
- Plant Molecular Systematics
- Biofuel technology
- Gymnosperm of Pakistan
- New concept in Flowering Plant taxonomy
- Research Techniques
- Environmental pollution and Implication

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