




Dr. Shabeer Ahmed

Ph.D. Agronomy

 Southwest University of Science and Technology (SWUST),
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Agronomist: Working as an Agronomist Directorate of Wheat and Maize Agriculture Research Institute, Quetta 87300, Pakistan.

EXPERIENCE

Agronomist, Agriculture Research Institute (ARI) Balochistan, Pakistan.

(2020-2022)

Area of research: Physiological and molecular mechanism on Wheat crop

I am currently investigating the underlying physiological- Biochemical activities and molecular mechanism different varieties of wheat under drought stress. Using Different techniques to investigate physio-biochemical, molecular, ion minerals and gene expression and hormonal contents. In addition as a part of my duties I also assist to farm manager in different aspects of wheat crops. We also get feedback from farmers to visit their fields to conduct weekly tour to different agro-ecological zones of Balochistan wheat growing areas.

EDUCATION

Ph.D. Agronomy (Department of Biology), China(2016-2019)

Area of research: Plant physio-biochemical changes and Regulation, Gene expression and Maize plants

During my Ph.D. research, I honored my research skills while working on the core concept of how maize plant systems and their physio-biochemical activities, molecular mechanism communicate during their encounter to a variety of abiotic stress. We especially focused on the

underlying molecular mechanism of two putative salt stress-responsive genes in maize plants with a particular focus on roots and guard cells Encodes a sulfate transporter expressed in. up-regulated by sulfur deficiency.

Masters graduation in Agronomy at Sindh Agriculture University,

Tandojam, Pakistan(2010-2012)

Area of research: Growth and physiological parameters, Phosphorus levels, Chickpea

In the master research project, we performed the different phosphorus levels on Chickpea varieties from different growth stages using a combination of different plant growth regulators.

BS (Hons) undergraduate in Agronomy at Lasbella University of Agriculture, water and Marine Sciences, Uthal, Balochistan, Pakistan(2006-2010)

Area of research: Plant Tissue culture

Here in undergraduate internship we mainly focused on investigating different parameters for the biological yield traits of various wheat cultivars through the use of advanced sowing techniques.

PUBLICATIONS

Principal/Co-first author

1. **Shabeer Ahmed**, SHEN Yanhe, MA wenhao1, DONG Jiangbo QU Xinyu, CAO Ying, HU Shanglian, LUO Xuegang*. Effects of three-salt stress on the growth of maize seedlings and the accumulation of antioxidant enzymes and ions in leaves. Agricultural Research in the Arid Areas, 1000-7601(2020) 03-0112-06.
2. Abdul Raziq, Kun Zhang, Wei Sun, Naveed Ahmad, Huiling Zhao, Muhammad, Ali Raza, **Shabeer Ahmed**, Atta Mohi Ud Din, Shuzhen Zhao, Jiaowen Pan, Aiqin Li, Xingjun Wang1*, Chuanzhi Zhao1* Transcriptome profiling of MYB-overexpressed transgenic lines provides crucial molecular insights into anthocyanin and remodel the biosynthesis regulatory network in *Nicotiana tabacum* 3
3. M. Imran, N. Samo, S. Hu*, X. Luo, Y. Cao, H. Yan, **S. Ahmed** and D. Gong. CLONING OF NOVEL BEMYB680 TRANSCRIPTIONAL FACTOR FROM *BAMBUSA EMEIENSIS*; CANVASSING TRANSACTIVATION ANALYSIS AND GENE EXPRESSION PROFILING

IN THE PANORAMA OF DIFFERENT ABIOTIC STRESSES. The J. Anim. Plant Sci. 29(5):2019.

4. NASEEM SAMO, XUECHUN WANG^{1*}, MUHAMMAD IMRAN, HADI BUX, [SHABEER AHMED](#) AND YUNGAO HU^{1*}. NAC VS: ABIOTIC STRESSES, CURRENT UNDERSTANDING AND PERSPECTIVE, WITH SPECIAL REFERENCE TO THE CROPS
5. Abdul Raziq, Atta Mohi Ud Dind, Sumera Anware, [Shabeer Ahmed](#), Jin Sun, Sheng Shu, Naveed Ahmadc, Naveed Mushtaq, Shirong Guo. Spermidine application modulates physio-molecular responses to mitigate the heat-induced oxidative damage in tomato seedlings (With Editor Journal of Thermal Biology).
6. Amin Ullah, [Shabeer Ahmed](#), Sher Muhammad Lehri, Muhammad Ramzan, Liaquat Ali, Farooq, Shahzad, Muhammad Ejaz Lal Bakhsh. Comparison of yield and yield components of Faisalabad originated wheat varieties under coastal environment Pure Appl. Biol., 12(2):1406-1433, June, 2023. ***Corresponding author's email: shabeerahmed6464@gmail.com.**
7. Abdul Nabi¹, [Shabeer Ahmed^{1*}](#), Manzoor Ahmed, Muhammad Ibrahim¹, Amir Tariq, Jaffar Khan Bazai, Muhammad Hafeez, Nazir Ahmed Alizai, Fahim Ahmed, Rehmat Ullah, Naseer Ahmed Shahwani, Abdul Rouf Zehri and Mitha Khan. Impact of harvesting timing and drying methods on yield attributes of wheat variety tj-83. Pure Appl. Biol., 12(1):404-413, March, 2023. ***Corresponding author's email: shabeerahmed6464@gmail.com.**
8. Muhammad Ibrahim Mengal, [Shabeer Ahmed^{1*}](#), Manzoor Ahmed, Abdul Nabi, Muhammad Aamir Tariq, Fazal Muhammad Bangulzai, Abdul Rauf Zehri, Shah Alam, Abdul Ghaffar, Syed Shah, Naseer Ahmed Shahwani, Muhammad Akbar Badini and Mitha Khan. Population response of Helicoverpa armigera on sunflower treated with botanical synthetic insecticides. Pure Appl. Biol., 10(4):1477-1483, December, 2021. ***Corresponding author's email: shabeerahmed6464@gmail.com.**

9. [Shabeer Ahmed Badini*](#), Abdul Raziq, Mian Khan, Sana Ullah Baloch, S.K Baloch, Hafeez Noor, Waseem Bashir, and Manzoor Ahmed Badini, Effect of Phosphorus Levels on Growth and Yield of Chickpea (*Cicer arietinum* L.) Varieties, Journal of Natural Sciences Research, ISSN 2224-3186 (Paper) ISSN 2225-0921 (Online) on: JNSR@iiste.org.
10. Manzoor Ahmed Badini, Nemat Ullah, Abdul Raziq Muhammad Nawaz Kandhro, Abdul Qadir, Ahmed Ali Mengel, Shahbaz Khan, [Shabeer Ahmed](#), Saeed Ahmad Qalanderani, Waseem Bashir, Study of the Farmers Knowledge Regarding Pesticide Usage on Cotton Crop at District Nushki, Balochistan Province, Developing Country Studies www.iiste.org ISSN 2224-607X (Paper) ISSN 2225-0565 (Online) Vol.7, No.2, 2017.
11. Zaheer Ahmed, Sumera Anwar, Abdul Raziq, [Shabeer Ahmed](#), Fazal Muhammad, Nazeer Ahmed Alizai, Manzoor Ahmed, Shahbaz Khan, Shah Faisal, Effect of Halopriming on Seed Germination and Seedling Vigor of Solanaceous Vegetables, www.iiste.org, Journal of Natural Sciences Research ISSN 2224-3186 (Paper) ISSN 2225-0921 (Online), Vol.7, No.9, 2017.

RESEARCH PROJECTS

- Role of VB1 and VB6 during salt stress on Maize plant physio-biochemical and molecular (Natural Science Foundation of China).
- Molecular mechanism of Sultr-1 gene family during foliar application of thymine and its role in physio-biochemical activities and molecular mechanism in maize plants under salt stress (Natural Science Foundation of China).
- Progress in understanding the crucial role of Sultr-1 and their encoding genes during salt stress (Natural Science Foundation of China).
- Agronomical and Biological yield traits important traits in Chick Pea (Natural Science Foundation of Pakistan).
- Physiological and molecular mechanism on Wheat crop (high-level talent program Pakistan).

RESEARCH INTERESTS

- Role of Phosphorus level, phytohormones in growth development, stomatal patterning, chloroplast

movement, biochemical activities, and sheath and a blade.

- Regulation of plant mineral nutrients in primary root, lateral root, adventitious root, and root hair development under abiotic stress.
- Abiotic stress-induced RNA, Protein and DNA damage, Biochemical regulation and plant coping mechanisms.
- Implementation, technical assistance and execution of PCR, qRT-PCR tools for gene expression in ergonomically important crops.

SKILLS AND EXPERTISE

- Agriculture Research Institute Saria Road Quetta, Balochistan, Pakistan
- Currently working as, a Agronomist, Directorate Agriculture Research Wheat ARI, Saria Road Quetta, Balochistan, Pakistan.
- Agriculture Research Institute Saria Road Quetta, Balochistan, Pakistan
- Four year working experienced as a Research officer, Directorate Agriculture Research Fodder, ARI, Saria Road Quetta, Balochistan, Pakistan.
- Lasbella University of Agriculture, water and Marine sciences Uthal, Balochistan, Pakistan.
- Two-year teaching worked experience undergraduate students "Department of Agronomy, Agronomic Crops, Balochistan, Pakistan".
- Four-year research work experienced on "Physiological Mechanisms of Thiamin and pyridoxine improving Different Salt Stress Tolerance in Maize Seedling." College of life Science, Department of Biology, Southwest university of Science and Technology Mianyang, Sichuan, China.
- Agriculture Research Institute, Tandojam, Pakistan
- Effect of Phosphorus Levels on Growth and Yield of Chickpea (*Cicer arietinum* L.) Varieties at Agriculture Research Institute Tandojam, Sindh, Pakistan.
- Agriculture Research Institute Saria Road Quetta, Balochistan, Pakistan
- Three year and Nine months' work experienced as a Research Officer in Agriculture Research Institute Saria Road Quetta, Balochistan. Directorate of Fodder.
- NCHD district Quetta, Balochistan, Pakistan.
- Two-year work experience as a data collector in NCHD district Quetta, Balochistan, Pakistan.
- Balochistan Rural Support Program (BRSP)
- Two-year work experience as a logistic officer Balochistan Rural Support Program (BRSP) District Jafferabad Balochistan. One-year work experience as a nutrition officer in BDMA district Quetta Balochistan, Pakistan.
- Agriculture Poly technique institute (ARI), NARC Islamabad
- 10 days training have been got on "Orchard Establishment and Management" from 3rd May-12 May, 2017 in collaboration with Agriculture and cooperative department,

government of Balochistan. In assistance with: Directorate of fruit, DHRD, NARC at Agriculture Poly technique institute (ARI), NARC Islamabad.

- One-day Training of Olive Good Practices focusing on pruning Organized by Olive Culture and PSDP Olive Projects at Arid Zone Quetta.

SKILLS AND EXPERTISE

Experimental commands

- Hands on experience in RNA extraction, cDNA and qRT-PCR, HPLC etc.
- Proficiency in molecular, biochemical, and physiological analyses.
- Proteins characterization and quantification.

Bioinformatics tools

- Experience in bioinformatics analyses such as Go and KEGG, promoter, gene structure, conserved protein motifs & domains, as well as protein interaction network etc.
- Analysis of RNA-Seq and metabolomics data.

Scientific writing

Persuasive and objective writing rather than report writing. Always try to create a reader-friendly story for the available results. Always try to support the conclusion with a conceptual model.

Data interpretation

- Keen observation, accurate data collection, appropriate data arrangement, suitable statistical test selection, and application, as per requirement graphical and tabular data presentation, grouping and arranging graphs and tables in the figures on the basis of concept relevancy.

General commands

- An excellent command on the anticipation of research problems and research gaps from the existing literature.
- Identification, new concepts development, and conceptual model development.
- Efficient in presenting an appropriate hypothesis and associated experimental design.
- Project budgeting, consumable and non-consumable product purchase and proper laboratory inventory preparation.

STUDY AWARDS

- First Award Scholarship Sichuan Province, people republic of China
Sep 2016-16 June 2019. PhD
School of Life Science, Southwest University of Science, Jinan, Shandong, China.
- Prime Minister Laptop Scheme, Government of Pakistan
September 2010- Awarded for best academic performance during master's studies.
- Balochistan Naway Sahar Laptop Scheme, Government of Balochistan, Pakistan
April 2008- Awarded for best academic performance during bachelor's studies.

REFERENCES

1. Dr. Hu Shang Lian

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