

CURRICULUM VITAE

SAMAN ARSHAD

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Objective

To work in a well-established organization having affective target-oriented projects with the aim of achieving goals and continual improvement where I can use my technical and administrative skills efficiently with a strong influence for organizational and personal growth.

Research Interests:

- Gene action studies in Oilseed crops specifically Sunflower
- Oilseed germplasm Evaluation under climate change scenario
- Development of climate smart Breeding Material of oilseed crops
- Introduction of ignored oilseed crops as Commercial crops
- utilization of Marginal lands by growing potential and input responsive crops on them using less inputs

Research Background:

Gene action Studies in *Halianthus annus* L. germplasm under normal and drought stress conditions for oil profiles and yield related traits.

Education

Certificate/Degree	Year	Division/CGPA	Board/University
M. Sc. (Hons.) Plant breed. & Genetics.	2019-2021	3.93/4.00	UAF*
B.Sc. (Hons.) Agricultural Sciences	2015-2019	3.83/4.00	UAF*
F. Sc. (Pre-Medical)	2013-2015	1st	BISE**, Faisalabad
Matriculation (Major: Science)	2011-2013	1st	BISE, Faisalabad

*University of Agriculture, Faisalabad; **Board of Intermediate and Secondary Education.

Work Experience

<u>Institute</u>	<u>Year</u>	<u>Nature of Job</u>
University of Agriculture Faisalabad, Sub-Campus	<u>2024-</u>	<u>Lecturer</u>

Borewala-Vehari. (Department of Plant Breeding and Genetics) (Current Organization)		<u>(PBG)</u>
University of Agriculture Faisalabad, Sub-Campus Borewala-Vehari. (Department of Plant Breeding and Genetics)	<u>2022-</u> <u>2024</u>	<u>Visiting</u> <u>Lecturer</u> <u>(PBG)</u>
Fodder Research Sub-Station, Ayub Agricultural Research Institute, Faisalabad.	<u>2022</u>	<u>Research</u> <u>Associate</u>
Sacrosanct Montessori high School System, Faisalabad.	<u>2020-</u> <u>2021</u>	<u>Lecturer</u>
Agricultural Biotechnology Research institute, Ayub Agricultural Research Institute, Faisalabad.	<u>2019</u>	<u>Internee</u>
Tissue Culture and GMO Detection Laboratory. Headed by Dr. Shakra Jameel. (Assistant Botanist at Agricultural Biotechnology Institute, AARI, Faisalabad.)	<u>2019</u>	<u>Internee</u>
DNA Extraction and Transformation Laboratory. Headed by Dr. Shamsa Kanwal. (Scientific officer (PB&G) at ABRI, AARI, Faisalabad.	<u>2019</u>	<u>Internee</u>
Sacrosanct Montessori Academy, Faisalabad.	<u>2019-</u> <u>2020</u>	<u>Lecturer</u>

Publications

1. Razzaq, H., S-E., Mustafa, **S. Arshad** and R. Kanwal. 2024. Development of selection Criteria for Charcoal Rot (*Macrophomina phaseolina*) in sunflower accessions. J. Agric. Res. 62(4): 239-245.
2. Azmat, M. A., M. Zaheer, M. Shaban, **S. Arshad**, M. Hassan, A. Ashraf, M. Naeem, A. Ahmad and N. Munawar. 2024. Autophagy in plants: A new avenue to mitigate the climate change. Scientifica.
3. Akram, M. A., M. A. Azmat, M. Zaheer, **S. Arshad**, M. Shaban. 2024. In-silico identification and characterization of the GhHSP101 gene family in response to heat stress. ICBBB (Abstract).
4. Azmat, M. A., R. Rasheed, **S. Arshad**, M. Shaban and A. Kanwal. 2024. COVID-19: A deadly outbreak on planet earth. J. Agric. Bio. 1(1): 29-45. ISSN: 3007-1763 (online), 3007-1755 (print).
5. Razzaq, H., **S. Arshad**, M. A. Azmat, A. Shakil, U. Sehar, S. Mustafa, A. Kanwal and M. Shaban. 2024. Assessing gene action and combining ability in *Brassica napus* L. under drought stress conditions, an effort towards breeding resilient varieties. Agric. Sci. J. 2024(6)-(1): 71-78.

6. Shakil, Q., J. Iqbal, A. Kanwal, **S. Arshad**, K. Hussain, N. Khalid, S. Raza, A. Mehmood and M. Aslam. 2022. Development of Faisalabad Oats-21 (*Avena sativa* L.): A New climate resilient and nutritious Oat Variety. J. Agric. Res. 61(3):211-220.
7. Jamil, S., **S. Arshad**, S. Kanwal, H. Razzaq, R. Shahzad and Z. Iqbal. 2019. Impact of transgenic crops on global food security: A review. J. Agric. Res. 57(4): 245-258.

Courses Taught

- **Quantitative Genetics and Biometry (PBG-609)**
- **Breeding Sugar Crops (PBG-601)**
- **Biosafety Measures in GM crops (PBG-613)**
- **Introductory plant breeding (PBG-401)**
- **Basic concepts of Genetics (PBG-301)**
- **Basics of Molecular Biology and Genetics (Biotech-401)**
- **Breeding Oilseed Crops (PBG-506)**
- **Biometry (PBG-514)**
- **Management of Germplasm resources (PBG-512)**
- **Fundamentals of Biotechnology (Biotech-402)**
- **Biometrical Approaches in plant breeding (PBG-701)**
- **Plant breeding methodology and genetic resources (PBG-703)**
- **Experimentation in plant breeding (PBG-509)**

Accomplishments:

- Awarded with **Merit Scholarship** from the University during M. Sc. (Hons.) Plant Breeding and Genetics (2019-21).
- Awarded **Full Degree Scholarship from Higher Education Commission (HEC)** in B.Sc. (Hons.) for the Duration of 4 years.
- Awarded with the **Merit Scholarship from the University** Continuously for 4 years for the Duration of 2015-16, 2016-17, 2017-18, 2018-19 respectively.
- Awarded with a **Laptop by the Chief Minister Youth Initiative Programme 2014**, on Merit Basis in 2014.
- **Secure A+ grade in F.Sc. (Pre-Medical).**
- Awarded with the **Certificate of Excellence** from Shiblee Group of Colleges, Madina Town Campus on showing excellence in studies and Extra-Curricular Activities in **2015**.
- Awarded with **Merit Scholarship** from Shiblee Group of Colleges, Madina Town Campus in F.Sc. on Securing A+ grade in Matriculation for the Duration of 2013-2015. (Full Degree)
- **Throughout 1st Division in Academic Career consisting of A+ grades.**
- Awarded with a **shield of Excellence from Dhariwal Public High School** and College, Faisalabad on showing excellent performance in studies and extra-curricular Activities in 2013.

Skills

- **Technical Skills**
 - Have Hands-on **Experience in lab environment.**
 - Having Hands-on Training in **Microscopic Examination of mitosis, meiosis, pollen grains, anther, leaves, stomata etc.**

- Have work Experience in **PCR, Gel- electrophoresis (Agarose & PAGE gel and, Gel Documentation.**
- Have work Experience in **GMOs (Genetically Modified Organisms) Testing**
- Hands-on Training in **Molecular Biology and Biotechnology.**
- Hands-on Training in **DNA extraction and Quantification.**
- Have Hands-on Training in **Plant Tissue Culture.**
- Have hands on experience on **“STATISTIX 8.1”, “PAST 4.0” & “AgriAnalyze” SOFTWARE.**
- **Communication Skills**
 - Good Team work Skills.
 - Good Public Speaker and motivational speaker.
 - Effective and strong Teaching Methodology.
 - Leadership skills

Societies and Clubs

- Co-Incharge of **Blood Donation Club, University of Agriculture, Faisalabad Sub-campus Borewala**
- Active member of **Ethics Committee, University of Agriculture, Faisalabad Sub-campus Borewala.**
- Active member of **The Agrarian Society, University of Agriculture, Faisalabad.**
- Active member of **The Pakistan Society of Plant Breeders and Genetics (PSPBG).**
- Active member of **Young Peace and Development Corps (YPDC) Club under the Federal Ministry.**

Conferences/Seminars/Workshops/Trainings/Technical Courses

- Two-day hands-on international training workshop on “The use of basic bioinformatics tools in life sciences research”. (10th Oct, 2023)
- National training workshop on “DNA fingerprinting of crops under plant breeder’s rights rules”. (19th June, 2023)
- National seminar on “Pulses improvement in Pakistan, challenges & opportunities”. (14th June, 2023)
- Two-day international hands-on training workshop on scientific writing and data presentation (31st Oct-1st November, 2022)
- Two-day international seminar on scholarship hunting strategies and opportunities (2-3rd November, 2022)
- One-day awareness seminar on GRE as a pre-requisite for overseas scholarship hunting with mock test opportunity (5th November, 2022)
- PNS-NIBGE joint seminar on “Women in nuclear Science and Technology” (1st August, 2022)
- One-day (online) Training workshop on preparation and presentation of quantitative performance appraisal in transparent and traceable form (16th June, 2022)
- One day seminar on “Training on Pre-basic seed production of vegetable and field crops” (8th June, 2022)
- Workshop on resume writing and soft skills development. (12th Oct, 2018)

- Extra course: Career Development skills (DHL-401): 2(1-1) (2017)

References

- **Dr. Humera Razzaq**
Lecturer at Department of plant breeding and Genetics, University of Agriculture, Faisalabad, Pakistan
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- **Dr. Farooq Ahmed Khan**
Chairman of Department of plant breeding and Genetics, University of Agriculture, Faisalabad, Pakistan
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- **Dr. Amir Shakil**
Associate Professor at Department of plant breeding and Genetics, University of Agriculture, Faisalabad, Pakistan
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Phone: 0300-8401624
- **Dr. Muhammad Abu Bakr Azmat**
Head of Department of plant breeding and Genetics, University of Agriculture, Faisalabad, Sub-Campus Borewala-Vehari, Pakistan.
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- **Dr. Muhammad Shahban**
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