



Rana Muhammad Azhar Ali

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Address: Dpt. of Plant Breeding and Genetics, University of Agriculture, Faisalabad, 37000, Faisalabad, Pakistan (Work)

WORK EXPERIENCE

DEPARTMENT OF PLANT BREEDING AND GENETICS, UNIVERSITY OF AGRICULTURE, FAISALABAD – FAISALABAD, PAKISTAN
LECTURER (SEED SCIENCE AND TECHNOLOGY) – 01/10/2024 – CURRENT

Education and Supervision
Research and Development
Technical Support and Outreach

BARANI AGRICULTURE RESEARCH INSTITUTE, TALAGANG ROAD, THOA BAHADUR, CHAKWAL – CHAKWAL, PAKISTAN
RESEARCH ASSOCIATE IN PARB (PAKISTAN AGRICULTURE RESEARCH BOARD) FUNDED PROJECT "VEGETABLE BREEDING AND SEED PRODUCTION". – 18/02/2022 – 30/09/2024

CMS lines: Identification and maintenance of B line in ABR system

- Evaluate the radish (*Raphanus sativus*) population for selection of maintainer line B.
- Data recording of parental lines and crossed (AXB) lines.
- Pollen viability test of parental lines and crossed lines.

Germplasm Exploration: Phenotyping and clustering and evaluation of peas (*Pisum sativum*) under rain-fed conditions.

- Characterization of 120 genotypes of pea (*Pisum sativum*) using morphological descriptor of PGRI under rain-fed conditions.
- Data recording and clustering on the basis of their response against powdery mildew, drought tolerance, and life cycle.
- Assisted vegetable program leader in conducting multilocal trials of five pea (*Pisum sativum*) genotypes with three check varieties under rain-fed conditions.

Hybrid/Variety development: Development of breeding tools for enhancing the profitability of bitter melon (*Momordica charantia*) through the development of hybrids by gynoceous lines.

- Identifications of gynoceous lines of bitter melon (*Momordica charantia*) from open-source population.
- Breeding of gynoceous lines to get selfing by induction of hermaphrodite flowers through silver nitrate application.
- Studying standardization and synchronization of gynoceous population with pistillate and hermaphrodite flower after application of silver nitrate dosages.

BAYER PAKISTAN - CROP SCIENCE, MONSANTO PAKISTAN PVT LTD – FAISALABAD, PAKISTAN

INTERN – 30/01/2019 – 29/03/2019

Modern techniques for vegetable production.

Vegetable nursery handling.

Planning & execution of maize (*Zea mays*) trial sowing (layout & mapping).

Data collection of different maize (*Zea mays*) parameters of agronomic trials.

Monitoring insect/pest/disease on maize (*Zea mays*) & their control.

Check plant population, different rates of irrigation, and fertilizer effects on maize (*Zea mays*) yield and yield contributor parameters.

VEGETABLE RESEARCH INSTITUTE, (VRI, AARI) FAISALABAD, PAKISTAN. [HTTPS://AARI.PUNJAB.GOV.PK](https://aari.punjab.gov.pk) – FAISALABAD, PAKISTAN

VEGETABLE BREEDING INTERN – 22/04/2018 – 30/07/2018

CMS lines in hot pepper (*Capsicum frutescens*)

Hybrid breeding and maintenance of male sterile lines in hot pepper (*Capsicum frutescens*).

Identification of CMS lines from open-source population.

Validation of CMS lines through morphological attributes and chemical test (Acetocharmin) in lab.

Selection of superior plants of hot pepper (*Capsicum frutescens*) from exotic germplasm.

NATIONAL VOCATIONAL AND TECHNICAL TRAINING COMMISSION NAVTTC – FAISALABAD, PAKISTAN

TUNNEL FARMING – 31/10/2017 – 29/04/2018

Modern techniques for vegetable production under controlled conditions.

Data collection for different parameters of cucumber (*Cucumis sativus*), bitter melon (*Momordica charantia*), hot (*Capsicum frutescens*) and sweet pepper (*Capsicum annuum*).

Preparation of media for the nursery preparation of peppers (*Capsicum*).

Diseases and plant nutrition management.

Drip irrigation technology.

● EDUCATION AND TRAINING

Faisalabad, Pakistan

MASTER'S IN AGRICULTURE. SEED SCIENCE & TECHNOLOGY University of Agriculture, Faisalabad

Address Jail road, Faisalabad, Punjab, Pakistan, 38000, Faisalabad, Pakistan | **Website** <http://www.uaf.edu.pk/> |

Field of study M.Sc. (Hons) Seed Science and Technology | **Final grade** 3.80/4.00 |

Thesis "Effect of different temperature regimes on growth, seed yield, and quality attributes of carrot seed crop".

14/09/2015 – 14/08/2019 Faisalabad, Pakistan

BACHELOR'S IN AGRICULTURE. SEED SCIENCE & TECHNOLOGY University of Agriculture, Faisalabad

Address Jail road, Faisalabad, Punjab, Pakistan, 38000, Faisalabad, Pakistan | **Website** www.uaf.edu.pk

● HANDS ON TRAININGS

Wet and dry lab

DNA Extraction

Gel electrophoresis

PCR

Genomic analysis (Transcriptomics)

Induce seed germination through seed priming, coating and pelleting

Seed viability and purity testing

Statistical Analysis learned through software's

Learned descriptive statistics, Graph formation through Microsoft excel.

Used Statistix 8.1 to find LSD and ANOVA.

Used R to find Correlation and Path analysis.

● LANGUAGE SKILLS

Mother tongue(s): **URDU**

Other language(s): **ENGLISH**

● CONFERENCES & SEMINARS

09/02/2017 – 09/02/2017 Agrarian Society® UAF 2017

 **Participation in "Poster Competition"**

05/04/2018 Agrarian Society® UAF 2018.

Participation in workshop on "Scientific Writing".

06/05/2018 Organized by Society of Seed Scientists, UAF, 2018

 **Participation in Seminar of "Modern Seed Production Technologies in Vegetables".**

07/07/2018 Society of Seed Scientists,UAF, 2018.

 **Participation in Seminar of "Seed Processing and Storage".**

07/10/2018 Horticulture Institute, University of Agriculture, Faisalabad.

 **International Seminar on "Global Floriculture Marketing Standards and Export opportunities for Pakistan".**

22/10/2018 Dpt. of PBG, University of Agriculture, Faisalabad.

 **Participation in International Conference of Soyabean: Challenges and Opportunities. September 2018.**

09/03/2021 – 11/03/2021 Leibniz-Institute of Plant Genetics and Crop Plant Research, Germany.

 **"Scientific Seed Symposium"**

05/04/2021 – 09/04/2021 Iowa State University

 **"Seed Business Management" April webinar series.**

16/05/2021 USA

 **ISTA Plant Health Seminar 2021. Session 2.1 New threats/ outbreaks/ regulation.**

19/05/2021 USA

 **ISTA Plant Health Seminar 2021. Session 2.2 and 2.3.**

30/12/2021 – 31/12/2021 Jointly organized by CEFORT, BARI, Chakwal & Pakistan Oilseed Department, Islamabad, Pakistan

 **Training of farmers and service providers on Olive nursery raising, orchard pruning, establishment and management.**

17/02/2022 KeyGene

 **“Apomixis: the breakthrough breeding technology for the 2020s”.**

24/03/2022 International Wheat Genome Sequencing Consortium.

 **“Evolution of recombination landscapes in diverging populations of bread wheat”.**

05/05/2022 International Plant Breeding Seminar Series, North Carolina State University.

 **Phenomics-Enabled Breeding: Crop Improvement for solving grand challenges.**

02/06/2022

High value crops - Genotyping in vegetables, SGS Crop Science

28/06/2022 International Seed Testing Association.

"Seed development and viability".

14/07/2022 Organized by National seed platform

"Business models for early generation seed production".

07/05/2023 Center of Excellence for Olive Research and Training (CEFORT), BARI, Chakwal, Pakistan.

3rd International Conference on, Olive Value Chain- A smart intervention for better future.

08/05/2023 The Global Plant Council, Madrid, Spain

"Farmers-Scientists panel on gene-edited crops".

28/06/2023 Dr. Carol Baskin. Professor, University of Kentucky. Crop Trust and CGIAR Genebank initiative.

"Don't let seed dormancy be a headache: how to understand, classify and overcome it".

● **HONOURS AND AWARDS**

01/11/2017

 **Certificate of six month course in “TUNNEL FARMING” under Prime Minister Youth Skill Development Program Phase-4 – National Vocational & Technical Training Commission**

05/10/2017

 **1st Position in Poster Competition overall agriculture department in UAF, Organized by The Agrarian Society® UAF. 2017. – University of Agriculture, Faisalabad, Pakistan.**

05/06/2017

 **Award a Laptop from Prime Minister’s Laptop Scheme.**

19/10/2017

 **Appreciation MEDEL from vice chancellor of UAF for curricular activities.**

02/01/2017

 **“CLASS EXECUTIVE” in “Society of Seed Scientist” in the cabinet of 2017-2018.**

26/11/2017

 **“DEPARTMENTAL COUNCIL” of Seed Science & Technology The Agrarian Society® UAF in the cabinet of 2017-2018.**

12/10/2018

 **Appreciation award from “Society of Seed Scientist”. – University of Agriculture, Faisalabad, Pakistan**

01/02/2018

 **Selected as a “GENERAL SECRETARY” in “Society of Seed Scientist” in the cabinet of 2018-2019.**

● **PUBLICATIONS**

2023

[**The impact of auxin on the vegetative and reproductive growth of carrot \(*Dacus carota* L.\). World Journal of Biology and Biotechnology. Vol 8, No 1 \(2023\)**](#)

R. M. A. Ali, A. Manzoor, M. S.Naveed, M. Manawar, R. Ahmad, S. H. Mahfooz,ere...

R. M. M. Ali, M. I. Shan, M. Abbas, **R. M. A. Ali**, S. Kanwal, K. Liaqat. here the description...

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REFERENCES

Will provide on demand
