

CURRICULUM VITAE

DR. MARYAM

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Date of Birth: July 7, 1987
Citizenship: Faisalabad (Pakistan)
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EDUCATION:

Degree	Board / University	Subject	%age
Ph.D.	University of Agriculture, Faisalabad	Horticulture	79.37
M.Sc (Hons.) Horticulture	University of Agriculture, Faisalabad	Pomology	81.94
B.Sc (Hons.) Agriculture	University of Agriculture, Faisalabad	Agriculture (Horticulture)	82.02
F.Sc (Pre-Medical)	B.I.S.E. Faisalabad	Science Subjects	68.27
Matric	B.I.S.E. Faisalabad	Science Subjects	80.94

DISSERTATION (Ph.D.):

- Studies on metaxenial effect and use of molecular approaches for detection of hybrids, genetic diversity and sex in date palm (*Phoenix dactylifera* L.)

During PhD studies got experience in:

- Chemical analysis (spectrophotometric analysis and HPLC)
- DNA Extraction
- Experienced in molecular techniques like SSR and PCR
- Expertise of Nikon fluorescent microscope
- PAGE (Polyacrylamide gel electrophoresis) analysis

Major area of interest:

- Pomology and Molecular biology/biotechnology

RESEARCH FOCUSING ON:

Morphological and Biochemical

- Long term pollen storage
- Optimization of *in vitro* germination protocol for date palm pollen viability
- Metaxenial studies

Molecular Biology

- Hybrid development and genetic confirmation
- Date palm breeding
- Genetic characterization
- Sex determination
- SSR markers

Tissue Culture

- Media preparation, tissue sterilization and maintenance (multiplication)
- Tissue culture and regeneration techniques
- Micropropagation techniques

Postgraduate Research Title:

- Effect of storage on date palm pollen viability

EXPERIENCE:

Internship Training	Pomology, AARI Faisalabad	4 months
Internship	Agriculture Extension, Faisalabad	1 month
Teaching Assistant	University of Agriculture, Faisalabad	6 months
Assistant Professor	Government college women University, Faisalabad	1 year

CO-CURRICULAR ACTIVITIES:

- Actively participated in PSHS Sport Festival 2007 and awarded with 3 certificates as a winner.
- Awarded as the winner of the Annual Chrysanthemum and Autumn Flower Show in 2008, 2009 and 2010 organized by Institute of Horticultural Sciences, University of Agriculture, Faisalabad

SEMINAR AND SYMPOSIUM :

- Seminar on “ Current Health Care Challenges and their Treatments by Natural Medicines” organized by Institute of Horticultural Sciences, University of Agriculture, Faisalabad in collaboration with Pakistan Tibbi Pharmaceutical Manufacturer Association (February 17-18,2011).
- Participated in “Ph.D. Research Proposal Colloquium” organized by Office of Research, Innovation and Commercialization (ORIC), UAF .

- International Seminar on “Floriculture Industry: Exploring New Avenues in Pakistan” held at Institute of Horticultural Sciences, University of Agriculture, Faisalabad organized by HEC.
- Symposium “Mushroom Cultivation” organized by Institute of Horticultural Sciences, University of Agriculture, Faisalabad
- Symposium on "Ehhenobotany: The Future Prospectives" Organized by GCWUF, May 11, 2015

ORAL PRESENTATION

- International Conference on “Prospects and Challenges to Sustainable Agriculture” held at Faculty of Agriculture, Rawalakot, July 14-16, 2011.
- “International Conference on date palm: Present status and Future Prospects” on successful presentation from Islamia University, Bhawalpur, Pakistan
- 2nd International conference on Horticultural Sciences “Production challenges and Food Security” February 18-20, 2016.
- 1st International Salinity Conference organized by department of Soil Sciences University College of Agriculture and Environmental Sciences IUB, December 19-21, 2016
- 3rd International conference on “Agriculture, Food and Animal Sciences” organized by Sindh Agricultural University Tandojam, January 10-11, 2017.

DISTINCTION:

- Award of letter of appreciation from UAF for completing Ph.D within 3 years.
- 1st position during undergraduate studies (B.Sc. Hons) in Institute of Horticultural Sciences, University of Agriculture, Faisalabad
- Punjab Board Merit scholarship holder throughout the BSc.(Hons)
- University Merit Scholarship holder throughout the M.Sc.(Hons.) Degree programs

TRAINING AND SHORT COURSES:

- Hands on Training Workshop “Agriculture Production System Simulator (APSIM) Modeling organized by Climate change chair USPCAS August 30-September 01, 2016.
- 6th training course on “Biochemical and Molecular Techniques in Plant Breeding” organized by Nuclear Institute for Agriculture and Biology (NIAB) October 18-28, 2016
- Workshop on "Biotechnology for Crop Improvements: GM Crops Production, Challenges and opportunities organized by Chair, Biotechnology USPCAS-AFS September 5-7, 2016.
- Project Formulation Workshop Organized by Pakistan Science Foundation Islamabad, January 20-21, 2016.
- Workshop on "Intellectual Property Rights" organized by PSF, PASTIC and IPO, August 28, 2015.
- One day training on “Discover yourself and others” organised by Muhammad Nawaz Shareef University of Agriculture, Multan. 31st July 2016.

- Four day training on “Active citizens training of facilitators” organised by Muhammad Nawaz Shareef University of Agriculture, Multan. 30th May-3rd June 2016.
- Training on “Modern techniques in research on abiotic stress tolerance in plants” organized by Nuclear Institute for Agriculture and Biology (NIAB) PAEC. March 10-14, 2014.
- Training workshop on “Molecular Approaches for Crop Improvements” organized by CABB and HIS, UAF, January 20-21, 2014.
- Workshop on “Molecular Techniques for Breeding Horticultural and Agronomic Crops” organized by Institute of Horticultural Sciences and the Office of Research, Innovation and Commercialization (ORIC), UAF, September 30-October 2, 2013.
- Training of Higher Performance Liquid Chromatography from Central Hi-Tech Laboratory University of Agriculture, Faisalabad. 30-07-2012-04-08-2012
- “Training Course on Poly Tunnel Farming” organized by the Institute of Horticultural Sciences, University of Agriculture, Faisalabad in collaboration with Agribusiness Support Fund in November 16-21, 2009.
- Computer course from Tariq Bin Ziad Computer College, 01-07-2008, 30-09-2008
- Workshop on “Superficial Fluid Extraction Technology for High Value Non-Traditional Crops” organized by Rose Project, Institute of Horticultural Sciences, University of Agriculture, Faisalabad

PUBLICATIONS:

- **Maryam.**, Jaskani, M.J, S. Ahmad, F.S. Awan and I.A. Khan. 2016. Development of molecular method for sex identification in date palm (*Phoenix dactylifera* L.) plantlets using novel sex-linked microsatellite markers. 3 Biotech 6:22
- Ahmad, I., M. Nafees, I. Ashraf, **Maryam**, J.M. Al-Khayri, M.M. Yousaf, B. Ahmad and R. Qureshi. Fruit morphological attributes to assess genetic diversity in jujube (*Ziziphus mauritiana* L.) germplasm of Bahawalpur. Pure and Applied Biology. 5(4): 921-926
- **Maryam.**, M.J. Jaskani, B. Fatima, M. S. Haider, S.A. Naqvi, M. Nafees, R. Ahmad and I.A. Kkhan. 2015. Evaluation of pollen viability in date palm cultivars under different storage temperatures. *Pak. J. Bot.*, 47(1): 377-381.
- **Maryam.**, M.J. Jaskani, S. Ahmad and F.S. Awan. 2015. Metaxenial effects on morphological attributes in date palm cvs. Hillawi and Khadrawy. *Pak. J. Agri. Sci.*, 52(2), 387-393
- Haider, M.S., I.A. Khan, S.A. Naqvi, M.J. Jaskani¹, R.W. Khan, M. Nafees, **Maryam** and I. Pasha. 2013. Fruit developmental stages effects on biochemical attributes in date palm. *Pak. J. Agri. Sci.*, 50(4): 577-583.
- Nafees M., S. Ahmad, R. Anwar, I. Ahmad, **Maryyam** and R.R. Hussnain. 2013. Improved horticultural practices against leaf wilting, root rot and nutrient uptake in mango (*Mangifera indica* L.). *Pak. J. Agri. Sci.*, 50(3): 393-398.

- Ahmad, I., T. Hussain, I. Ashraf, M. Nafees, **Maryam**, M. Rafay and M. Iqbal. 2013. Lethal effects of secondary metabolites on plant tissue culture. J. Agric & Environ. Sci., 13(4): 539-547.
- Nafees, N. I. Ahmad, I. Ashraf, M. Jameel, T. Hussain and **Maryam**. 2013. Sustainable production of mango fruit by managing irregular bearing through foliar spray of urea at critical growth stages. World Appl. Sci. J. 24 (10): 1368-1372
- Ahmad, I., T. Hussain, M. Nafees, **Maryam**, M. Jamil, I. Ashraf, M. F.Z. Akhtar, M. Iqbal, M. Rafay, T. Ruby and L. Ali. 2013. Morphological Dissimilarity Between Tetraploid and Diploid Watermelon (*Citrullus lanatus* Thunb.) World Appl. Sci. J. 21 (6): 858-861.

Abstracts Published:

- Ahmad, I., M.J. Jaskani, **Maryam** and U. Shahzad. 2011. Effect of antioxidants on phenolic exudation in *in vitro* culture of fruit plants. International conference on prospects and challenges to sustainable agriculture. Faculty of Agriculture, Rawalakot. 14-16 July. P. 324
- **Maryam**., M.J. Jaskani, S. Ahmad and F.S. Awan. 2014. Marker assisted genetic characterization of breeding parents and its population. p. 291. In Khan, M.F., M.K. Javed, M. Farooq and M.A. Shakir. Abstract book. 5th Int. conf. Agriculture, Food security and climate change. 9-11 sep 2014, Rawalakot, Pakistan.

REFERENCES:

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