## PERSONAL INFORMATION

Name: Muhammad Rizwan Shafiq

Father's name: Muhammad Islam Date of Birth: October 10, 1982

Nationality: Pakistani

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# ACADEMIC QUALIFICATION

#### 2016 **PhD**

Institute of Molecular Physiology and Biotechnology of Plants (IMBIO)

Rheinische Friedrich-Wilhelms-Universität Bonn. Germany

German grading system 1.3 grades, (A grade, ≥90%)

US

#### 2006 M.Sc. (Hons.) Plant Breeding & Genetics

Department of Plant Breeding & Genetics University of Agriculture, Faisalabad. Pakistan

CGPA: 3.87/4.00 (A grade, 82.82%)

#### 2004 **Bachelor of Honors in Agricultural Sciences**

Specialization in Plant Breeding & Genetics

University of Agriculture, Faisalabad. Pakistan

CGPA: 3.88/4.00 (A grade, 81.55%)

#### 1999 **Higher Secondary School Certificate**

Pre-Medical Group

723/1100 (B grade, 65.72%)

#### 1997 **Secondary School Certificate**

Science

676/850 (A grade, 79.53%)

## PROFESSIONAL EXPERIENCE

- Currently working as lecturer in the department of Plant Breeding and Genetics, University of Agriculture Faisalabad (UAF), Depalpur Campus, Okara, Pakistan.
- PhD thesis with the title "A forward genetic approach to isolate *Arabidopsis* mutants altered in the regulation of the *ALDH7B4* gene."
- Lecturer, University of Agriculture, Faisalabad, Pakistan from 15th September 2006 to March 2010.
- M.Sc. thesis on "Genetic variability and correlation response in mungbean (*Vigna radiata* L. Wilczek) following gamma irradiation".
- Three-month internship program on hybrid seed production at National Agricultural Research Centre (NARC), Islamabad, Pakistan.
- Completed Basic Wheat Improvement Course 2022 organized by CIMMYT from 31st January 2022 to 27th May 2022.

## PARTICIPTION IN SEMINARS AND WORKSHOPS

- Attended the seminar on "Floriculture Industry" at Agriculture House Auditorium,
   Lahore on 30-05-2007.
- Participate in the COST one-week training School on "Halophyte Biochemistry and Physiology at Leibniz Universitaet Hannover, Germany from 3<sup>rd</sup> July to 10<sup>th</sup> July, 2011.
- Participate in one-day training on "Handling and transport of radioactive materials used in laboratory" at Rheinischen Friedrich-Wilhelms-Universität Bonn (University of Bonn), Germany on 08.05.2014.
- Participate in "2<sup>nd</sup> Pakistan Seed Congress" at University of Agriculture, Faisalabad on November 21-22, 2016.
- National Conference on "Sustainable Management & Control of Fruit Fly Infestation" at University of Agriculture, Faisalabad on November 21-22, 2016.

- Participate in Capacity Building Workshop on "Biosafety Measures in Agriculture" at University of Agriculture, Faisalabad on February 20-21, 2017.
- Participate in national conference on "Challenges and Opportunities to Boost Agriculture in Changing Climate" at College of Agriculture, BZU, Bahadur Sub-Campus Layyah on March 29-30, 2017.
- Participate in Training Program on "Introduction to LaTex UAF Synopsis and Thesis" at University of Agriculture, Faisalabad on July 26-28, 2017.
- Participate in one-week "Orientation of Newly Inducted Faculty" at UAF from 31<sup>st</sup>
   July to 4<sup>th</sup> August 2017.
- Member of organizing committee for "National seminar on sustainable potato production: Challenges and strategies 2018" held on 25-09-2018 at UAF Depalpur campus, Okara.
- Member of Hall management Committee to organize "the one-day seminar for Awareness of Fertilizer Prediction Model" on 19<sup>th</sup> December 2018.
- Member of purchase committee for arrangement of one-day seminar and training workshop entitled "promoting agriculture entrepreneurship among small farmers through collective action" held on 30-01-2019.
- Member of different committees to organize the "One-day national seminar on potato and maize' held on 24th September 2019 at UAF Depalpur campus, Okara.
- Participated in "One Day Workshop on Laboratory Biosafety" as Resource Person at UAF Depalpur campus on 21-02-2019.
- International Webinar on Nutritious Maize: Technologies, Development and Availability in South Asia from July 21 to July 23, 2020, conducted by CIMMYT.
- Increasing maize varietal turnover in Sub-Saharan Africa arranged by CIMMYT on 27-07-2020.
- Role of Agricultural & Environmental Biotechnology for a Sustainable Future organized by Bioingene.com on 11-08-2020.

- Genomic-assisted maize breeding: Status and Opportunities conducted on 12-08-2020 by CIMMYT.
- Improving phenotyping accuracy and throughput in Maize organized by CIMMYT on Friday, August 14, 2020.
- MicroProteins: Novel tool to bioengineer future ready plants on 17-08-2020 arranged by Bioingene.com
- CRISPR in Agriculture- Context of Improving WUE, held on 12 September 2020 arranged by Bioingene.com
- Enterprise Resource Planning meetings and discussions on administrative components (Vehicle Management System) and Academic activities especially for admissions, examinations and hostel management.
- WORLD ENVIRONMENT DAY-2021 WEBINAR: Sustainable Nitrogen Management for Ecosystem Restoration held on 4<sup>th</sup> June 2021.
- Attended a workshop on "Capacity building & Professional Development for faculty and Officers" at UAF between 15.11.2021 to 19.11.2021.
- Attended a workshop on "Capacity building & Professional Development for faculty and Officers (SWOT Analysis and Succession Plan)" at UAF on 31. 12. 2021.
- Member of organizing committee, International Webinar on "Modern Crop Breeding for Food Security" 22 December 2022, Sub-Campus Depalpur, Okara.
- Participated in the National Seminar on **World Fisheries Day** organized by the Department of Zoology, Wildlife and Fisheries at UAF Depalpur Campus, Okara on 21-11-2022.
- Participated in the National Seminar on Role of Tilapia Fish to Control Dingue organized by Department of Zoology, Wildlife and Fisheries at UAF Depalpur Campus, Okara on 28-09-2022.
- Participated in Refresher Webinar on Fall Armyworm Management in South Asia organized by The International Maize and Wheat Improvement Centre (CIMMYT) held on 21<sup>st</sup> July 2022.

- Participated in the 3<sup>rd</sup> International Colloquium on Challenges and Opportunities of Maize Production organized by UAF Department of Plant Breeding & Genetics held on May 18-20, 2022.
- Completed Basic Wheat Improvement Course 2022 organized by CIMMYT from 24<sup>th</sup>
  January 2022 to 31<sup>st</sup> May 2022.

## **PUBLICATIONS**

- Missihoun, Tagnon D., Eva Willée, Jean-Paul Guegan, Solenne Berardocco, Muhammad R. Shafiq, Alain Bouchereau, and Dorothea Bartels. "Overexpression of ALDH10A8 and ALDH10A9 Genes Provides Insight into Their Role in Glycine Betaine Synthesis and Affects Primary Metabolism in *Arabidopsis thaliana*." *Plant and Cell Physiology* 56, no. 9 (2015): 1798-1807.
- Shahzadi Mahpara, Zulfiqar Ali, Muhammad Ishaq Asif Rehmani, Javaid Iqbal & Muhammad Rizwan Shafiq. "Studies of Genetic and Combining Ability Analysis for Some Physio-Morphological Traits in Spring Wheat Using 7×7 Diallel Crosses". *Int. J. Agric. Appl. Sci.* Vol.9, No.1, 2017.
- Mahmoud M. Gaballah, Sajid Fiaz, Xiukang Wang, Afifa Younas, Sher Aslam Khan, Fahad Masoud Wattoo & Muhammad Rizwan Shafiq (2021) Identification of genetic diversity among some promising lines of rice under drought stress using SSR markers, Journal of Taibah, University for Science, 15:1, 468-478, DOI: 10.1080/16583655.2021.1989738.
- Parwsha Zaib a, HafizMuhammad Ahmad a, Safira Attacha b, Mahmood Ur Rahman a, Muhammad Rizwan Shafiq c, Kousar Parveen d, Sajid Fiaz e, Kotb. Attia f, Saira Ishaq g, Shazia Arif h, Asmaa M. Abushady i j, Muhammad Jawad Umer k (2023). Comparative genomics of light harvesting chlorophyll (*LHC*) gene family and impact of chlorophyll-A contents under drought stress in *Helianthus annuus*. *Journal of Plant Physiology*, 291(154136), DOI: 10.1016/j.jplph.2023.154136
- Khalid Naveed, Muhammad R. Shafiq, Ahmed Raza (2023). CITRUS TRISTEZA VIRUS: ITS RESEARCH STATUS AND FUTURE PROSPECTS IN PAKISTAN. *Int. J. Agric. Appl. Sci.*, 35 (02) 465-472, DOI:10.33866/phytopathol.035.02.0873.

 Y Gong, Z Qiu, W Hou, IU Haq, MR Shafiq, B Alharthi (2024). Characteristics of rapeseed (Brassica rapa L.) genome DREB family demonstrate their roles in stress. *Plant Stress* 13, 100536. doi.org/10.1016/j.stress.2024.100536

## RESEARCH INTERESTS

- Breeding for biotic and abiotic stresses
- Molecular Plant Stress Physiology
- Conventional and Molecular Plant Breeding & Genetics

## REFERENCES

### **Dr. Dorothea Bartels**

Professor (Retired)

Department of Molecular Physiology, IMBIO.

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