

## **Dr. RABIA MASOOD UR REHMAN**

Assistant Professor (Botany Department)  
Hazara University Mansehra, Pakistan  
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### **QUALIFICATIONS**

<b>DEGREE</b>	<b>YEAR</b>	<b>BOARD/UNIVERSITY</b>
PhD (Botany)	2018	Hazara University Mansehra
MPhil (Botany)	2011	Hazara University Mansehra
MSc (Plant Sciences)	2006	Quaid-e-Azam University, Islamabad
BSc (Biosciences)	2003	University of Peshawar
FSc (Pre-Medical)	2001	BISE, Abbottabad
SSC (Science)	1999	BISE, Abbottabad

### **JOB EXPERIENCE**

- ❖ Assistant Professor, Department of Botany, Hazara University since April 13<sup>th</sup>, 2022 to date
- ❖ Lecturer, Department of Botany, Hazara University since Feb 1<sup>st</sup>, 2008 to April 12<sup>th</sup>, 2022
- ❖ Lecturer, Government Degree College Mansehra from June 1<sup>st</sup>, 2007 to Jan 31<sup>st</sup>, 2008

### **TEACHING COURSES AT GRADUATE AND POSTGRADUATE LEVEL**

- Plant Genetics-I, Biostatistics, Diversity of Vascular Plants, Plant Genetics-II, Plant Molecular Biology, General Microbiology, Cell Biology, Virology and Bacteriology.

### **CONFERENCES / WORKSHOPS ORGANIZED**

- HEC Sponsored Training Course on “Enhancement of Natural Beauty through Conservation of Animals and Birds” June 04, 2009 at Hazara University Mansehra.
- HEC Sponsored International Symposium on “Basic Techniques in Research, Dissertation and Paper writing in Life Sciences” July 27-29, 2010 at Hazara University, Mansehra.
- HEC Sponsored training course on “Ensuring Training Effectiveness” June 13-15, 2012 at Hazara University Mansehra.

- HUM Sponsored one day workshop on “Development of Digital Herbaria: A Step To Strengthen Institutional Capacity In Biodiversity Data Mobilization” October 14, 2021 at Hazara University Mansehra (HUM).

### **TRAININGS / CONFERENCES / WORKSHOPS PARTICIPATED**

- 25<sup>th</sup> Training Course on “The Use of Nuclear and other Techniques in food and Agricultural Research” Nov 03-14, 2008, at Nuclear Institute for Food and Agriculture (NIFA).
- HEC Sponsored Training Course on “Enhancement of Natural Beauty through Conservation of animals and Birds” June 04, 2009, at Hazara University, Mansehra.
- HEC Sponsored International conference on “Advances in Agriculture: Prospects and Potential Resources in Food Security” August 11-13, 2009, at university of Azad Jammu and Kashmir, Rawalakot.
- HEC Sponsored International Symposium on “Basic Techniques in Research, Dissertation and Paper writing in Life Sciences” July 27-29, 2010, at Hazara University, Mansehra.
- HEC Sponsored Training on “Professional Competency Enhancement Program for Teachers (PCEPT)” July 20- August 25, 2010, at Hazara University, Mansehra.
- ERRA sponsored workshop on “Disaster Risk Management Program” 7-9 March, 2011 held at Hazara University Mansehra.
- HEC sponsored Training on “16<sup>th</sup> Master Trainers- Faculty Professional Development program (MT-FPDP)” 20<sup>th</sup> September-4<sup>th</sup> November 2011 at Learning Innovation Division, HEC Islamabad.
- HEC Sponsored training course on “Ensuring Training Effectiveness” June 13-15, 2012, at Hazara University Mansehra.
- HEC sponsored 1<sup>st</sup> International symposium on the “Himalaya of Pakistan, Resources & conservation issues” November 27-30, 2014, at Hazara University Mansehra.
- Texas A&M AgriLife research Amarillo TX, USA sponsored “2016 Edgar McFadden Symposium and winter wheat workers workshop” April 17-20, 2016, at Holiday Inn Northwest San Antonio TX, USA.
- Pakistan botanical society and HEC sponsored “7<sup>th</sup> International and 16<sup>th</sup> National conference on Plant resources: Current trends, challenges and solution” March 23-27, 2018, at Islamia college University, Peshawar.
- PARC sponsored international seminar on “Crop Wild Relatives genetic resources of Pakistan and their utilization” November 14, 2018, at NARC, Islamabad.
- HEC and Pakistan Science Foundation sponsored “2<sup>nd</sup> International conference of plant science” December 5-7, 2018, at GC University, Lahore.

- Biological society of Pakistan and Quaid-e-Azam University Islamabad sponsored “Fourth International conference on Biosciences (ICBS-2021)” June 15, 2021, at QAU, Islamabad.
- HUM Sponsored One day workshop on “Development of Digital Herbaria: A Step to Strengthen Institutional Capacity in Biodiversity Data Mobilization” October 14, 2021, at Hazara University Mansehra (HUM).
- HEC and Elsevier sponsored Two-day online workshop on “Promoting Research Excellence in Academics across Pakistan” February 01-02, 2022, at HEC Islamabad Pakistan.
- HUM sponsored three-day training on “Teaching methodologies and academic regulations” September 12-14, 2023, at Hazara University Mansehra.

### **RESEARCH PUBLICATIONS**

- F. M. Abbasi, A. H. Shah, F. Perveen, M. Afzal, M. Sajid, **Rabia Masood** and F. Nawaz. (2010) *Genomic affinity between Oryza sativa and Oryza brachyantha as revealed by in situ hybridization and chromosome pairing.*, African Journal of Biotechnology 9(21): 3068-3072. (24.05.2010)
- F. M. Abbasi, A. H. Shah, **Rabia Masood**, R. Mujaddad, F. Nawaz, M Sajid, M. Afzal, A. Majid, N. Akhtar and I. Bukhari. (2010) *Production and molecular characterization of wide cross derivatives in rice.* African Journal of Biotechnology 9(25): 3732-3735. (21.06.2010)
- Fida M. Abbasi, H. Safdar Shah, Alia Gul, A. Majid, M. Afzal, R. Mujaddad, H. Azhar Shah, **Rabia Masood**, N. Shafqat, I. Bukhari and Abid Ali (2010) *Localizing introgression on the chromosome of rice by genomic in situ hybridization (GISH).*, African Journal of Biotechnology 9(30): 4651-4654. (26.07.2010)
- Fida M. Abbasi, M. Afzal, F. Perveen, **Rabia Masood**, Safdar H Shah, Azhar H. Shah, R. Mujaddad, A. Majid, M. Sajid and Alia Gul. (2010) *Characterization of wide cross derivatives in rice Oryza sativa L. using genomic in situ hybridization (GISH).*, African Journal of Biotechnology 9(40): 6640-6644. (04.10.2010)
- Fida M Abbasi, M. Tariq Khan, Farzana Perveen, **Rabia Masood**, Inamullah, Uzma Khan, Sadia Tabassum and Muqarrab Shah. (2010) *Historical perspective of in situ hybridization for the analysis of genomic constitution of plants.*, African Journal of Biotechnology 9 (54) : 9142-9147. (29.12.2010)
- Fida M Abbasi, **Rabia Masood**, Habib Ahmad, Uzma Khan, Muhammad Afzal, Inamullah, Mujaddad ur Rehman, Muhammad Tariq Khan, Kehkashan Akbar and Muhammad Abid Khan. (2011) *Molecular screening of Pakistani rice germplasm for xa5 gene resistance to bacterial blight .*, African Journal of Biotechnology 10(15) : 2833-2837. (11.04.2011)
- M. Afzal, F. S. Mehdi, Fida M. Abbasi, Habib Ahmad, **Rabia Masood**, Inamullah, Jan Alam, Gul Jan, M. Islam, Noor Ul Amin, A. Majid, M. Fiaz and A.H.Shah (2011) *Efficacy of Avicennia marina (forsk.) Vierh. Leaves extracts against some atmospheric fungi.*, African Journal of Biotechnology 10(52): 10790-10794. (12.09.2011)

- Ittisham Bukhari, Mukhtiar Hassan, Fida M Abassi, Yasmeen Shakir, Asfandyar Khan, Sohail Ahmed, Rabia Masood, Zeba G Burki, Muhammad Afzal, Uzma Khan, Faisal Shahzad and Sajjad Hussain (2012) *Antibacterial spectrum of traditionally used medicinal plants of Hazara, Pakistan.*, African Journal of Biotechnology 11(33): 8404-8406. (24.04.2012)
- Rabia Masood, M. Jamil, S.J. Abbasi, S. Hussain, S. George, A.A. Napar, Alvina Gul Kazi, and A. Mujeeb-Kazi. (2014) *Response of D-genome penetrance and expressivity on synthetic wheats for phenotypic traits and seed image analysis.* Annual Wheat Newsletter vol.60, USA.
- Sumaira J. Abbasi, M. Jamil, Rabia Masood, S. Hussain, A.A. Napar, A. Rehan, Alvina Gul Kazi, and A. Mujeeb-Kazi. (2014) *Morphological and physiological characterization of BW/SH germplasm,* Annual Wheat Newsletter vol.60, USA.
- Rabia Masood, Niaz Ali, Azhar Hussain Shah, Fouzia Bibi Faiza Masood, Jackie Rudd, A. Mujeeb Kazi. (2016) *Evaluation and selection of synthetic hexaploid wheat and their derivatives at seedling stage targeted for salt tolerance,* International Journal of Biosciences 9(1): 435-442. (20.04.2016)
- Rabia Masood, Niaz Ali, Muhammad Jamil, Khatiba Bibi, J. C. Rudd and A. Mujeeb-Kazi. (2016) *Novel genetic diversity of the alien D-genome synthetic hexaploid wheat (2n=6x=42, AABBDD) germplasm for various phenology traits,* Pak. J. Bot., 48(5): 2017-2024. (07.10.2016)
- Khatiba Bibi , Inamullah , Habib Ahmad , Ayesha Bibi , Rabia Masood , Hakim Khan And Aziz Ud Din. (2017) *Genetic Diversity Assessment of Indigenous Wheat Germplasm From Different Areas Of Pakistan Using agro-Morphometric Traits.* Pak. J. Bot., 49(SI): 221-227. (05.06.2017)
- Rabia Masood, Niaz Ali, Uzma Khan, Noshin Shafqat, Azhar Hussain shah, Khatiba Bibi, Ayesha Bibi and A. Mujeeb Kazi. (2018) “*Estimation of genetic diversity and population structure of synthetic hexaploid wheat (shw) and their derivatives using microsatellite (SSR) markers*” presented in “7<sup>th</sup> International and 16<sup>th</sup> National conference on Plant resources: Current trends, challenges and solution” March 23-27, 2018 at Islamia college University, Peshawar.
- Shafqat, N., Ahmed, H., Shehzad, A., Chaudhry, S. K., Shah, S. H., Islam, M., Khan, W., Masood, R., Khan, U. (2019) “*Screening of Wheat-Thinopyrum Bessarabicum addition and Translocation lines for drought tolerance*”. Applied Ecology and Environmental Research 17(5):10445-10461. (10.09.2019)
- Aisha Bano, Azhar Hussain Shah, Saad Hussain Shah, Ibrahim Khan, Safira Attacha, Wajiha Khan, Salma Anjum, Ayesha Bibi, Rabia Masood, Sohail Ahmad Jan. (2020) “*An efficient cost effective protocol for micropropagation of potato using natural mentha extract*”. Fresenius Environmental Bulletin 29(6): 4253-4261. (15.04.2020)

- Kiran Zubair, Inamullah, Ayesha Bibi, Rabia Masood, Hakim Khan (2020) “Genetic diversity assessment of wheat germplasm from Pakistan using agro-morphometric traits”. International Journal of Biosciences 17(4): 161-169. (15.10.2020)
- Muhammad Islam, Habib Ahmad, Abdul Nasir Khalid, Rabia Masood, Naveed Akhtar, Sahib Gul Afridi, Israr Ahmad. (2021), “PEAR (PYRUS): Genetic diversity and their conservation. Fresenius Environmental Bulletin, 30(3): 2333-2342. (01.01.2021)
- Madiha Islam, Abdullah, Bibi Zubaida, Nageena Amin, Rashid Iqbal Khan, Noshin Shafqat, Rabia Masood, Shahid Waseem, Jibrán Tahir, Ibrar Ahmed, Muhammad Naeem and Habib Ahmad. (2021) “Agro-Morphological, Yield, and Genotyping-by-Sequencing Data of Selected Wheat (*Triticum aestivum*) Germplasm from Pakistan”. Frontiers in Genetics, 12: 617772. DOI=10.3389/fgene.2021.617772 (13.04.2021)
- Noshin Shafqat, Armaghan Shahzad, Sabir Hussain Shah, Zahid Mahmood, Muhammad Sajid, Fahim Ullah, Madiha Islam, Rabia Masood, Nadia Jabeen, and Kiran Zubair. (2023). “Characterization of wheat-*Thinopyrum bessarabicum* genetic stock for stripe rust and Karnal bunt resistance”. Brazilian Journal of Biology. Vol:83, e246440. PMID: 34550282. (20.09.2021).
- Asma, Manzoor Hussain, Niaz Ali, Rabia Masood, Nazia Akbar, Noshin Shafqat, and Nasir Shad. (2022). “Agro-morphological characterization of Pakistani maize accessions using qualitative and quantitative traits”. Brazilian Journal of Biology. Vol:84, e259729. (27.06.2022).

### **MAJOR ACHIEVEMENTS**

- Achieved HEC sponsored overseas scholarship under “International research support initiative program (IRSIP)” November 2015- May 2016 at Texas A&M University, College Station, USA.
- Achieved HEC sponsored Indigenous PhD Scholarship Phase-II, Batch-I, 2012.

### **PHD RESEARCH TITLE**

“Phenotypic and Genotypic Characterization of Synthetic Wheat and their Derivatives Targeted for Salinity Tolerance”

### **BOOK PUBLISHED**

- Characterization of Pakistani Rice Germplasm, ISBN: 978-3-639-36798-0, VDM Verlag Dr. Muller Gmbh & Co. KG, Germany.

### **LANGUAGES**

- English and Urdu

## **REFEREES**

- **Prof. Dr. Ghulam Mujtaba Shah,**  
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