

Name	Dr. Syed Mehar Ali Shah				
Personal	Assistant Professor, Department Plant Breeding and Genetics NWFP Agricultural University, Peshawar-Pakistan Phone Off: +92-91-9216892 Cell: +92-321-5795569 E-mail: mehrpbg@gmail.com				
Academic Record	Degree	Year	Marks (%)	Specialization	Name of the Institution
	PhD	2008	94.09	Plant Breeding & Genetics	N-WFP AUP
	M.Sc (Hons)	2002	93.80	Plant Breeding & Genetics	N-WFP AUP
	B.Sc(Hons)	2000	91.26	Plant Breeding & Genetics	N-WFP AUP
	F.Sc	1994	72.18	Pre-Medical	F.G. Sir Syed College, Rawalpindi
	Matric	1992	82.59	Science	F.G. Public School, Wah Cantt
Honors and Awards	<ul style="list-style-type: none"> ➤ Topped the Department of Plant Breeding & Genetics in M.Sc (Hons) and B.Sc. (Hons) ➤ Awarded Silver Medal in M.Sc (Hons) ➤ Awarded Bronze Medal in B.Sc.(Hons) ➤ Awarded Scholarship from Higher Education Commission of Pakistan for Indigenous PhD Program (2004) 				
Experience	Date	Title		Institution	
	2002	Research Fellow		Nuclear Institute for Food and Agriculture (NIFA), Peshawar	
	2003-2009	Lecturer		NWFP Agricultural University, Peshawar-Pakistan	
	Dec 29, 2009 to Date	Assistant Professor		NWFP Agricultural University, Peshawar-Pakistan	
Service Activity	Teaching and Research (7 Years and 8 Months Teaching/Research Experience)				
Brief statement of Research Interest	Development of high yielding, disease and insect resistant varieties of rice crop via conventional and non-conventional approaches.				
Publications	List Attached (25 Publications- 10 in Impact Factor Journals and 15 in HEC X-Category Journals)				
Students Supervised	List Attached (15 M.Sc (Hons) Students Supervised- 5 Students as a Major Supervisor and 10 Students as a Member Supervisory Committee)				
Courses Taught	List Attached (11 Courses-5 Graduate Courses and 6 Undergraduate Courses)				
Research Grants and Contracts	As an active member of research team for conducting research project entitled as 'Production of inter-specific crosses through embryo rescue' sponsored by Rice programme, IPEP, PGRI and NWFP Agricultural University, Peshawar.				
Other Research or Creative Accomplishments	<ul style="list-style-type: none"> ➤ Initiated a very comprehensive study on wild species of rice in Pakistan and identified resistance against Bacterial Blight and Leaffolder in wild species of rice ➤ Successfully transferred Bacterial Blight and Leaffolder resistance from wild rice into Pakistani rice cultivars viz. Bas-385, IR-6 and KSK-282 ➤ Prepared the First Self Assessment Report of the Department of Plant Breeding and Genetics for Quality Enhancement Cell, NWFP AUP and Higher Education Commission, Islamabad 				
Selected Professional Presentations	Presented two research papers in a conference entitled as 'Response to the Challenges of Globalization in Agriculture' at Baragali, Abottabad.				
Trainings	Participated in various professional trainings and workshops related to Scientific Writing and Presentation				
Membership of Societies	SABRAO (The Society for the Advancement of Breeding Research in Asia and Oceania) Pakistan Phytopathological Society NWFP AUP Plant Breeding Society				

LIST OF PUBLICATONS

MANUSCRIPTS PUBLISHED AND ACCEPTED FOR PUBLICATION IN IMPACT FACTOR JOURNALS (HEC W-CATEGORY JOURNALS)

1. **Shah, S.M.A.**, H. Rahman, F.M. Abbasi, M.A. Akhtar and A. Rafi. 2009. Resistance characterization of wild relatives of Rice in Response to Bacterial Blight. Pak. J. Bot. 41(2): 917-925.
2. Rahman, H., I.H. Khalil, F.M. Abbasi, Z.T. Khanzada and **S.M.A. Shah**. 2010. Cytomorphological characterization of tea cultivars. Pak. J. Bot., 42(1): 485-495.
3. Rahman, H., S. Ali, F. Iftikhar, I.H. Khalil and **S.M.A. Shah**. 2010. Stability analysis of maize hybrids across North West of Pakistan. Pak. J. Bot., 42(2):1083-1091.
4. Khan, I.A., G. Hassan, K.B. Marwat, I. Daur, **S.M.A. Shah**, S.A. Khan and Farhatullah. 2010. Interaction of wild oat (*Avena fatua* L.) with divergent cultivars. Pak. J. Bot., 42(2): 1051-1056.
5. Rahman, H., Arifuddin, Z. Shah, **S.M.A. Shah** and I.H. Khalil. 2010. Evaluation of maize S₂ lines in test cross combinations. I: Flowering and morphological traits. Pak. J. Bot., 42(3): 1916-1927.
6. Gul, R., H. Rahman, I.H. Khalil, **S.M.A. Shah** and A. Ghafoor. 2010. Heterosis for flower and fruit traits in tomato (*Lycopersicon esculentum*). African J. Biotech., 9(27): 4144-4151.
7. Shah, Z., H. Rahman, **S.M.A. Shah**, M. Iqbal, U. Pervaiz and Amanullah. 2010. Tillage and residue impact on microbial biomass and soil C and N dynamics under different cropping systems. Pak. J. Bot., 42(3):1969-1976.
8. H. Rahman, S. Pekic, V. L. Janic, S.A. Quarrie, **S.M.A. Shah**, A. Pervez and M.M. Shah. 2011. Molecular mapping of quantitative traits loci for drought tolerance in maize plants. Genet. Mol. Res. 10(2): 889-901.
9. Shah, I.A., H. Rahman, **S.M.A. Shah**, Ihteramullah, M. Noor. Ahmad and Z. Shah. 2009. Characterization of pearl millet germplasm for various morphological and fodder yield parameters. Accepted in Pak. J. Bot.
10. Rahman, H., Arifuddin, Z. Shah, **S.M.A. Shah** and I. H. Khalil. 2009. Evaluation of maize S₂ lines in test cross combinations. II: yield and yield components. Accepted in Pak. J. Bot.
11. Iqbal, M., K. Khan, H. Rahman, Z. Shah and **S.M.A. Shah**. 2009. Genetic analysis of maturity and flowering traits in maize. Accepted in Pakistan Journal of Botany.

MANUSCRIPTS PUBLISHED IN INTERNATIONAL REFEREED JOURNALS (HEC X-CATEGORY JOURNALS)

1. **Shah, S. M. A.**, F. Mohammad, M.S. Swati, and S. Iqbal. 2003. Genotypic variability for yield associated traits in bread wheat. Sarhad J. Agric. 19(4): 535-538.

2. Mohammad, F., **S.M.A. Shah**, M.S. Swati, T. Shehzad, and S. Iqbal. 2004. Genotypic variability for yield and morphological traits in bread wheat. *Sarhad J. Agric.* 20(1): 67- 71.
3. Shehzad, T., I.H. Khalil, M.S. Swati, and **S.M.A. Shah**. 2004. Heterosis for yield and related traits in spring wheat. *Sarhad J. Agric.* 20(4): 537-542.
4. Shehzad, T., I.H. Khalil, **S.M.A. Shah**, H. Ihsan, and M.S. Swati. 2005. Heterosis estimates for some morphological traits in spring wheat crosses. *Sarhad J. Agric.* 21(1): 33-39.
5. Shah, Z., **S.M.A. Shah**, A. Hassnain, Z. Shah, S. Ali, I.H. Khalil, and I. Munir. 2007. Genotypic variation for yield and yield related traits and their correlation studies in wheat. *Sarhad J. Agric.* 23(3): 633-636.
6. Ali, S., **S.M.A. Shah**, A. Hassnain, Z. Shah and I. Munir. 2007. Genotypic variation for yield and morphological traits in wheat. *Sarhad J. Agric.* 23(4): 943-946.
7. **Shah, S.M.A.**, H. Rahman, A. Rehman, F.M. Abbassi, I.H. Khalil, and A. Ali. 2008. Characterization of wild rice species in response to leafhopper, *Cnaphalocrocis medinalis*. 2008. *Sarhad J. Agric.* 24(1): 69-74.
8. Rahman, H., S. Ali, **S.M.A. Shah**, S.S. Shah, N. Rahman, I.A. Khalil, I. Hussain and F. Afzal. 2008. Diversity for morphological and maturity traits in maize populations from upper Dir. *Sarhad J. Agric.* 24(3): 439-443.
9. Durrishahwar, H. Rahman, **S.M.A. Shah**, I.A. Khalil. 2008. Recurrent selection for yield and yield associated traits under leaf blight (*Helminthosporium maydis*) stress in Maize. *Sarhad J. Agric.* 24(4): 599-605.
10. **Shah, S.M.A.**, A. Ahmad, F. Mohammad, H. Rahman, G. Woras, M.Y. Khan, and D. Jan. 2008. Genotypic evaluation of some flue-cured Virginia tobacco genotypes for yield and quality traits. *Sarhad J. Agric.* 24(4): 607-611.
11. **Shah, S.M.A.**, H. Rahman, Z. Iqbal, F.M. Abbassi, Durrishahwar, A. Ali, M.Y. Khan and D. Jan. 2008. Evaluation of sugarcane genotypes for ratooning ability. *Sarhad J. Agric.* 24(4): 613-617.
12. Rahman, H., **S.M.A. Shah**, Durrishahwar, I. Nawaz, I.A. Khalil and M. Iqbal. 2008. Evaluation of testcrosses of S₁ lines for morphological and maturity traits in Maize. *Sarhad J. Agric.* 24(4): 619-623.
13. **Shah, S.M.A.**, Farhatullah, H. Rahman, Attaullah, Durrishahwar, M.Y. Khan, M. Sohail and N.M. Khan. 2009. Acclimatization of Burley tobacco germplasm under agro-ecological conditions of Swat valley. *Sarhad J. Agric.* 25(1): 31-36.
14. Rahman, H., I. Nawaz, **S.M.A. Shah**, Durrishahwar, I.A. Khalil, M. Iqbal, M. Sohail and M.Y. Khan. 2009. Evaluation of test crosses derived from maize variety Azam for yield and yield associated traits. *Sarhad J. Agric.* 25(2):197-201.
15. Sajid Ali, H. Rahman, S.J.A. Shah, **S.M.A. Shah** and Farhatullah. 2009. Assessment of field resistance using host-pathogen interaction phenotype for wheat yellow rust. *African Crop Sci. J.* 17(4): 213-221 (International Refereed Journal)

16. Muhammad Noor, H. Rahman, Durrishahwar, M. Iqbal, **S.M.A. Shah** and Ihteramullah. 2010. Evaluation of maize half sib families for maturity and grain yield attributes. *Sarhad J. Agric.* 26(4): 545-549.

MANUSCRIPTS IN PUBLICATION PROCESS

1. **Shah, S.M.A.**, H. Rahman, F.M. Abbasi and M.A. Rabbani. Interspecific variation of total seed protein in rice germplasm through SDS-PAGE. Submitted for publication in *Pakistan Journal of Botany* and is under review process.

BOOKS WRITTEN:

1. **Shah, S.M.A.**, H. Rahman, F.M. Abbasi. 2010. *Wild Rice Characterization: Morphological, Molecular, Disease and Insect Resistance Aspects*. Lambert Academic Publishing. ISBN No. 978-3-8433-5074-7.

M.Sc. (Hons) STUDENTS THESES SUPERVISED AS A MAJOR SUPERVISOR

1. Zahid Iqbal. 2005. Screening of Different Sugarcane Genotypes for Ratooning Ability.
2. Shah Muhammad Arif. 2010. Morphological and Biochemical Characterization of Wide Cross Derivatives in Rice.
3. Muhammad Sohail. 2010. Genetic Diversity in Wild Rice Germplasm for Morphological Parameters and Bacterial Leaf Blight Resistance.
4. Zahra Jabeen. 2010. Genotypic Evaluation of Rice Germplasm for Morphological Parameters.
5. Nazma Naeem. 2010. Genetic Diversity in Rice Genotypes for Qualitative and Quantitative Parameters.

M.Sc (Hons) STUDENTS THESES SUPERVISED AS A MEMBER SUPERVISORY COMMITTEE

1. Ashfaq Ahmad. 2004. Genotypic Evaluation of Some Virginia Tobacco (*Nicotiana tabaccum* L.) for Yield and Quality Traits.
2. Akhtar Ali. 2004. Genotypic Evaluation of Wheat Genotypes Across Environments.
3. Sajid Muhammad. 2004. Genetic Variability and Traits Correlation in Wheat (*Triticum aestivum*).
4. Attaullah. 2005. Acclimatization of Brazilian Burley Tobacco (*Nicotiana tabacum*) Germplasm under Agro-ecological Conditions of Swat Valley.
5. Said Salman. 2005. Combining Ability in Wheat Using Diallel Analysis.
6. Hina Fayyaz. 2009. Evaluation of Maize S₂ Lines for Yield and Morphological Traits in Test Cross Combinations.
7. Izhar Hussain. 2009. Genotype by Environment Interactions of Maize Hybrids Across Different Locations of NWFP

M.Sc (Hons) STUDENTS THESES SUPERVISED AS A MEMBER SUPERVISORY COMMITTEE OF OTHER DEPARTMENTS

1. Sayed Jamaluddin Reshad. 2009 (Weed Science Department). Integrated Weed Management in Tomato (*Lycopersicon esculentum*).
2. Ayesha Bibi. 2009 (Department of Plant Pathology). Studies on the Characterization and PCR identification of the Pathogen and Chemical Control of the Bacterial Blackleg and Soft Rot of Potato.
3. Muhammad Imran. 2010 (Weed Science Department). Effect of Different Herbicides and Weeds Extracts on the Yield and Yield Components of Wheat.

PhD STUDENTS CURRENTLY UNDER SUPERVISION AS A MEMBER SUPERVISORY COMMITTEE

Fazli Dayam Shehzad. PhD Student. Department of Plant Breeding and Genetics

COURSES TAUGHT

Graduate Courses

1. PBG-712 Advanced Genetics
2. PBG-722 Advances in Molecular and Microbial Genetics
3. PBG-710 Advanced Cytogenetics
4. PBG-725 Molecular Evolution
5. PBG-795 Thesis

Under-Graduate Courses

1. PBG-604 Principles of Evolution
2. PBG-602 Non-conventional Approaches in Plant Breeding
3. PBG-503 Breeding Field Crops
4. PBG-311 Introductory Genetics
5. PBG-301 Botany
6. PBG-699 Internship