

CURRICULUM VITAE

Name	Rozina Gul
Personal	<p>Religion: Islam Nationality: Pakistani Permanent Address: House # R-24, University of Peshawar, Peshawar, Pakistan Postal Address: Department of Plant Breeding & Genetics, The University of Agriculture, Peshawar. Pakistan NIC #: 16202-8764972-0 DOB: 10 / 04 / 1971 E mail: rozinagul@aup.edu.pk; drrozinakhan@yahoo.com Phone #: Home: +92-91-5610064, Office: +92-91-216892, Ext: 3224, mobile: +923349976704</p>
Objectives	<p>My objective as a plant breeder is to improve the quality and sustainability (both environmental and economic) of life on Earth by developing crops that fit better into the natural world and produce more with less.</p> <p>Currently I play two primary official roles i.e. as a teacher (in the class room) and as an adviser/supervisor of research students; however, I also have two “unofficial” roles as a mentor, and as a role model in my daily activities and in developing my programs research focus</p>
Experience	<ol style="list-style-type: none"> 1. Title: Associate Professor Date: 18 September 2017, Onward Institution: Deptt. Of plant Breeding & genetics, The University of Agricultural Peshawar, Pakistan. 2. Title: Assistant professor Date: 29 Dec 2009 to 17 September 2017 Institution: Deptt. Of plant Breeding & genetics, The University of Agricultural Peshawar, Pakistan. 3. Title: Lecture Date: 18th January 2005 – 28 Dec 2009 Institution: Deptt. of Plant Breeding & genetics, The University of Agricultural Peshawar, Pakistan. 4. Title: Lecturer Date: September 2002 – 17th January 2005 Institution: The University of Agriculture Public School & Collage Peshawar, Pakistan 5. Title: Subject Specialist (Biology/Science) Date: April 2001 – September 2002 Institution: The University of Agriculture Public School & Collage Peshawar, Pakistan 7. Title: Field Coordinator Date: July, 1999 – March, 2001

	<p>Institution: Human Development Organization Doaba (HDOD)</p> <p>8. Title: Senior Program Officer</p> <p>Date: October, 1997 – June, 1999</p> <p>Institution: National Rural Support Program (NRSP)</p>
Honors or Awards	<ol style="list-style-type: none"> 1. High Performance Award 2003-2004 The University of Agricultural Public School & Collage (Girls) Pesh. Pakistan 2. I was awarded with post-doctoral Fellowship in Laboratory of Plant Nutrition and Fertilizer department at Niigata University, Niigata, Japan from April 2016 to March 2017 by Schlumberger Foundation under Faculty for the Future “2015-16” scholarships. 3. I was one of the eight scientists who were selected by State Department Of USA for International Visitors Leadership Program (IVLP) in November-December 2014, During this program we gone through meetings and trainings at various universities and research institutes in eight different states of USA. 4. Awarded with International Research Support Initiative Program (IRSIP) scholarship for performing molecular research of my PhD work at Japan in 2008. 5. Higher Education Commission Approved academic Supervisor 6. For the first time I reported “Duplicate gene action behind nodulation in chickpea” Int. J. Agric. Biol., 20: 1979–1990
Project/s Achieved	<p>Achieved “National Research Program for Universities (NRPU)” project. 2017, Funded By Higher Education Commission (HEC) of Pakistan</p> <p>Project Title: Genetic and molecular appraisal of selected chickpea (<i>Cicer arietinum</i> L.) Genotypes against pod borer (<i>Helicoverpa armigera</i>) at different Locations</p>
Supervision of Students	<p>Supervising PHD student (Degree is near to completion)</p> <p>Supervised 19 MSc. (Hons)/MPHILL/MS Students</p> <p>Supervised 27 BSc.(Hons)/MSc students</p>
Academic Activities	<ol style="list-style-type: none"> 1. Teaching Botany to Bsc (Hons) Part I. 2. Teaching Introductory Plant Breeding & Introductory Genetics to Bsc (Hons) part II 3. Teaching various subjects of specialization in Plant Breeding & Genetics to students of part III. IV, MS and PHD. 4. Supervision of students of PhD, Mphil/MSc (Hons) & MSc/BSc (Hons) in research. 5. Guiding students in writing internship reports, review papers, synopsis and thesis. 6. Helping students in preparation of their seminars and presentations. 7. Making and Marking of Examination papers. 8. Helping students in statistical analysis of their research data. 9. Conference/Workshop/Seminars Trainings organization 10. Conference/Workshop/Seminars Trainings presentations and participation

<p>Courses taught in last three years</p>	<ol style="list-style-type: none"> 1. Introductory Plant Breeding 2. Principles of Genetics 3. Non Conventional Approaches in Plant Breeding 4. Breeding Pulse Crop 5. Cytogenetic in Crop Plants 6. Advanced Cytogenetic 7. Breeding for Quality Traits 8. Modern Techniques in Plant Breeding 9. Advanced Genetics
<p>Student Evaluation</p>	<p>In student evaluation I got 96% on average in each semester.</p>
<p>Dissertations</p>	<p>Rozina Gul (1994). Anther culture for developing haploid plants. BSc.(Hons) review submitted to the department of Plant Breeding & Genetics, KPK Agriculture University, Peshawar.</p> <p>Rozina Gul (1997). Evaluation of Mungbean Genotypes under Peshawar Condition. M.Sc.(Hons) thesis submitted to the department of Plant Breeding & Genetics, KPK Agriculture University, Peshawar.</p> <p>Rozina Gul (2010). Genetic and Molecular Analyses of Nodulation in Chickpea (<i>Cicer arietinum</i> L.). PhD thesis submitted to the department of Plant Breeding & Genetics, KPK Agriculture University, Peshawar. Molecular work was accomplished at Ehem University Matsuyama, Japan.</p> <p>Rozina Gul (2016-17). Gene expression analysis and morphological characters of chickpea (<i>Cicer arietinum</i> L.) in response to application of Lipo Chitooligosaccharide from <i>Mesorhizobiumciceri</i>. Post Doctrate Research work at Niigata University, Japan.</p>
<p>Professional Duties</p>	<p><u>Chairperson:</u> Society for the Rights of Female (SRF), The University of Agriculture Peshawar</p> <p><u>Member Board of Directors AUTF (Agric. Uni. Teachers Foundation)</u> From January 2010 to December 2012</p> <p><u>Member Ethics Committee UAP</u> From 2011 till date</p> <p><u>Additional chief Proctor:</u> From July 2014 till date</p> <p><u>Member of Agriculture University Teacher Association AUTA</u> Session 2013-14</p> <p><u>Member Harassment Committee:</u> 2015 onward in UAP</p> <p><u>Deputy Staff Proctor:</u> March 2010 – 2014, UOA, Pesh.</p> <p><u>Incharg Discipline Committee:</u> July 2003 – February 2004 at UOA Pesh. Pub. Sc. & Col.</p> <p><u>Controller Of Examination:</u> March 2002 – January 2005 2 at UOA Pesh. Pub. Sc. & Col</p>

<p>Conferences/ Workshop/ Trainings/ Seminars Organized/ Attended</p>	<p><u>Conference/Workshop Organized:</u></p> <ul style="list-style-type: none"> • Plant Tissue Culture Techniques (25th and 26th April 2019) at Institute of Biotechnology and Genetics Engineering ,The Uni. Of Agric. Peshawar • Climate Smart Agriculture and Crop Modeling (18-19 April, 2018) at Uni. Of Agric. Peshawar • Research Methodologies and Scientific Writing (7th February, 2018) at Uni. Of Agric. Peshawar • Innovative Technologies and sustainable development in Agriculture (August 19-22, 2014) Bara Galli Campus UOP. <p><u>Presentations in various Conferences/Forums:</u></p> <ul style="list-style-type: none"> • Frontier in Plant Science and Biotechnology (28th September, 2016) at NIIGATA University Japan • Challenges and Opportunities To Boost Agriculture In Changing Environment (26th-28th March, 2018) at Bahauddin Zikriya University LAYYA • “International Women Day organized by US consulate general” on 8th March <p><u>Trainings:</u></p> <ul style="list-style-type: none"> • “Project Management” on 2nd and 3rd April 2010, at Uni. Of Agric. Peshawar • “Web Based Tools for Plant Science Research” from 16th -19th April 2007, at Uni. Of Agric. Peshawar • “Staff Development Course” from 26th February to 22nd March 2007, at Uni. Of Agric. Peshawar • “An Integrated ICT Capacity Enhancement Program for Women Entrepreneurs” on 4th April 2017 organized by US consulate Peshawar
<p>Publications</p>	<p><u>IMPACT FACTOR PUBLICATIONS:</u></p> <ol style="list-style-type: none"> 1. Khadijah makhdoom , Naqib ullah khan, Shahid ullah khan, Samrin gul , Zarina bibi , Rozina gul, Sardar ali, Naushad ali , Shah masaud khan(2019). Genetic Effects Assessment through Line × Tester Combining Ability for Development of Promising Hybrids Based on Quantitative Traits in Gossypium hirsutum L. Tarım Bilimleri Dergisi – Journal of Agricultural Sciences, 25: 47-61 2. Afridi, K., N.U. Khan, Z. Bibi, S. Gul, R. Gul, S. Ali, N. Ali, I.A. Khalil, F. Uddin and G. Ahmad, 2018. Assessment of genetic effects for earliness and yield traits in F₁ and F₂ half diallel populations of wheat. Int. J. Agric. Biol., 20: 2785–2796 3. Rozina Gul, H. Khan, N.U. Khan, A. Latif and K. Harada, 2018. Characterization for nodulation and detection of duplicate gene action of dominant epistasis controlling root nodulation in chickpea (Cicer arietinum). Int. J. Agric. Biol., 20: 683–688 4. Imtiaz Ali , Naqib Ullah Khan , Mehboob ur Rahman , Rozina Gul , Zarina Bibi , Samrin Gul , Sheraz Ahmed , Sardar Ali , Naushad Ali , Khilwat Afridi and Hafiz Abdul Haq. 2018. Genotype by Environment and Biplot Analyses for Yield and Fiber Traits in Upland Cotton. Int. J. Agric. Biol., 20: 1979–1990 5. Sardar ali, Naqib ullah khan, Rozina Gul, Ishrat naz, Rabia goher, Naushad ali1, Sher aslam khan, Ijaz hussain, Muhammad saeed and Muhammad saeed. 2018. Genetic analysis for earliness and yield traits in maize. <i>Pak. J. Bot.</i>, 50(4): 1395-1405, 6. Hamayoon Khan, Rozina Gul, and Naqib Ullah Khan. 2017. Appraisal of interaction among nipping and chickpea (cicer arietinum L.) Genotypes and their correlated response for grain yield. <i>J.Agric.Pl.Sci.</i>, 27(4), 1295-1302

7. Kalim Ullah , Naqib Ullah Khan, **Rozina Gul** , Samrin Gul , Mohammad Irfaq Khan and Imdad Ullah Khan. 2016. Genetic effects for controlling stripe rust (*Puccinia striiformis* f. sp. tritici) resistance in wheat through joint segregation analysis. *Acta Scientiarum Agronomy* , 38(3), 317-328
8. S. Gul, N. U. Khan, **Rozina. Gul**, M. Baloch, A. Latif and I.A. Khan. 2016. Genotype by environment and phenotypic adaptability studies for Yield and fiber variables in upland cotton. *The Journal of Animal & Plant Sciences*, 26(3), 776-786
9. S. A. Khan, N. U. Khan, **Rozina Gul**, Z. Bibi, I. U. Khan, S. Gul1, S. Ali and M. Baloch. 2015. Combining ability studies for ield and fiber traits in uplant cotton. *The Journal of Animal & Plant Sciences*, 25(3): 698-707
10. **Rozina Gul***, Hamayoon Khan, Arif Khan and Naqibullah khan. 2014. Characterization of chickpea germplasm for nodulation and effect of rhizobium inoculation on nodules number and seed yield. *The Journal of Animal & Plant Sciences*, 24(5): 1421-1429.
11. **Rozina Gul***, Hamayoon khan and Naqibullah khan. 2014. Genetic linkage effect on inheritance of nodulation and leaf color in chickpea (*Cicer arietinum* L.). *SABRAO Journal of Breeding and Genetics* 46 (1) 89-98.
12. Farhan Ali*, **Rozina Gul***, Hamayoon Khan, Hidayat Ullah. 2013. Heterosis and early generation testing is a pivotal method for production of hybrid. *Australian Journal of Crop Science*, 7(11):1728-1736
13. **Rozina Gul***, and Maryam Bibi. 2013. Genetic analysis and interrelationship of yield and yield attributing traits in chickpea (*Cicer arietinum* L.). *The Journal of Animal & Plant Sciences*, 23(2): 521-526.
14. **Rozina Khan**, H. Khan, K. Harada. 2010. Evaluation of microsatellite markers to discriminate induced mutation lines, hybrid lines and cultigens in chickpea (*Cicer arietinum* L.). *Aust. J. crop Sci*, 4(5), 301-308
15. **Rozina. H.**, H. Khan, Shahenshah, L. Naz, I. Munir, M.Arif, I.A. Khalil, and A.Z. Khan. 2011. Performance of chickpea genotypes under two different environmental conditions. *Afr. J. Biotechnol.*, 10(9), 1534-1544.
16. Amir Z. K., H. Khan, **Roina Khan**, S. Nigar, B. Saeed, H. Gul, Amanullah, S. Wahab, A. Muhammad, M. Ayub, N. Matsue and T. Henmi. 2011. Morphology and Yield of Soybean grown on Allophanic Soil as Influenced by synthetic Zeolite Application. *Pak. J. Bot.* 43(4): 2099-2107
17. Bibi, M., N.U. Khan, F. Muhammad, **Rozina Gul**, A.A. Khakwani, O.U. Sayal. 2011. Genetic divergence and association among polygenic characters in *Gossypium Hirsutum* L. *Pak. J. Bot.* 43(6):2751-2758
18. Bibi, M., N. U. Khan, F. Muhammad, **Rozina Gul**, A.A. Khakwani, O.U. Sayal, I.A. Khan and M. Idrees. 2011. Genetic disparity and relationship among quantatively inherited yield related traits in diallel crosses in upland cotton. *Pak. J. Bot.* 43(5): 2543- 550.
19. Khan, M.I., G. Hassan, I. Khan, K.B. Marwat, N.U. Khan and **Rozina Gul**. 2011. Tolerance of chickpea (*Cicer arietinum* L.) cultivars to the major chickpea herbicides. *Pak. J. Bot.* 34(5): 2497-2501.
20. Rozina Gul, Hamayoon Khan, Saad Ahmed, Qasim Ali, Fida Muhammad, Naqibullah Khan, Ajmaluddin. Response of chickpea (*Cicer arietinum* L.) Genotypes to rhizobial inoculation and fertilizer application. Accepted for publication in *Int. J. of Agric. Biol.(IJAB)*

Publications in HEC recognized and International Journals:

21. Soshma Jan, **Rozina Gul**, Fahim Ullah Khan, Hamayun Khan and Sana Saeed. 2015. Interrelationships among yield and yield components in chickpea (*Cicer arietinum* L.) under irrigated and rainfed conditions. Pure Appl. Biol. 4(4): 551-556
22. Muhammad Adnan, Rozina Gul, Sidra Rozi, Nazir Ahmad, Touheed Iqbal Quaid Hussain, Abrar Muhammad. 2017. Genetic Diversity and Traits Association in Parental and F3 Populations of Chickpea. International Journal of Research in Agriculture and Forestry, 4(3), 27-33. ISSN 2394-5907 (Print) & ISSN 2394-5915
23. Hamayoon K., A.Z. Khan, **Rozina Gul**, Amanullah, S.K. Khalil, N. Matsue and T. Henmi. Influence of zeolite application on seed developmental profile of soybean grown in allophonic soil. Accepted in Pak. J. Botany
24. **Rozina Khan**, Farhatullah and Hamayoon Khan. 2011. Dissection of variability and heritability estimates of chickpea germplasm for various morphological markers and quantitative traits. Sarhad J. Agric. 27(1): 67-72.
25. **Rozina Khan**, Hamayoon Khan, Shahid Sattar, Farhatullah, Fazal Munsif, Shadman Sajjid Ali Khan Bangash and Sahir Hameed Khattak. 2011. Comparison among nodulated and non-nodulated chickpea genotypes. Sarhad J. Agri., 27(2): 577-581.
26. **Rozina Gul**, Hamayoon Khan, Ghazal Mairag, Sajid Ali, Farhatullah and Ikramullah. 2007. Correlation Study on Morphological and Yield Parameters of Mungbean (*Vigna radiate*). Sarhad J. Agric. 24(1): 37-42.
27. Tariq M., **Rozina Gul**, F. Munsif, F. Jalal, Z. Hussain, N. Noreen, H. Khan, Nasiruddin and H. Khan. 2011. Effect of phosphorus levels on yield and yield components of maize. Sarhad J. Agric. 27(2): 167-170.
28. Hamayoon Khan, Muhammad Arif, **Rozina Gul** and Khalid, Naveed. 2001. The Residual effect of groundnut crop and soil amendments on the performance of gram under rain fed condition. Sarhad J. Agric. Vol. 17(4). 525-531
29. Hamayoon Khan, M. Arif, **Rozina Gul**, Naseer Ahmad and Ijaz Ahmad Khan. 2002. Effect of planting dates on maize varieties. Sarhad J. Agric. Vol. 18(1):159-163.
30. Adres khan, I. A. Kan, R. Khan, I. Khan, Z. Hussain, **Rozina Gul** and S. Ali. 2011. Important chickpea weeds of New Developmental Farm, Khyber Pakhtunkhwa Agricultural University Peshawar, Pakistan. Pak. J. Weed Sci. Res. 17(3): 271-276.
31. Amir Z. K., H. Khan, **Rozina Khan** and A. Aziz. 2007. Vigor Tests Used to Rank Seed Lot Quality and Predict Field Emergence in Wheat. Am. J. Plt. Phys. 2(5): 311-317.
32. Amir Z. K., H. Khan, **Rozina Khan**, A. Ghoneim and A. Ebid. 2007. Seed Development Profile of Soybean as Influenced by Planting Dates and Cultivars under Temperate Environment. Am. J. Plt. Phys. 2(4):251-260.
33. Amir Z. K., H. Khan, **Rozina Khan** and Adel Ghoneim and Azza Ebid. 2007. Comparison of Different Wheat Seed Categories (VS) Farmer' seed: Yield and Yield Components. Trends in App. Sci. Res. 2(6): 529-534.
34. Hamayoon K., A. Z. Khan, **Rozina Khan**, Naeto Matsu and Teruo Henmi. 2008. Zeolite Application Affects Vegetative Phenology of determinate and indeterminate soybean grown on Allophanic soil. Int. J. Agric. Res. 3(2): 148-154.
35. Hamayoon Khan., A. Z. Khan, **Rozina Khan**, Naeto Matsu and Teruo Henmi.

	<p>2008. Water adsorption and surface acidity of nano-ball Allophane as affected by heat treatment. <i>J. Env. Sci. & tech.</i> 2 (1): 22-30.</p> <p>36. Hamayoon Khan., A. Z. Khan, Rozina Khan, Naeto Matsu and Teruo Henmi. 2008. Soybean Leaf Area, Plant height and Reproductive Development as influenced by Zeolite Application and Allophanic Soil. <i>J. plt. Sci.</i> 3(4): 277-286.</p> <p>37. Amir Z. K., H. Khan, A. Ghoneim, Roina Khan and A. Ebid. 2007. Seed Quality and Vigor of Soybean as Influenced by Planting Dates, Density and Cultivar under Temperate Environment. <i>Int. J. of Agric. Res.</i> 2 (4): 368-376.</p> <p>38. Rozina Gul, S. Ali, H. Khan, Nazia, F. Ali and I. Ali. 2007. Variability among Mungbean (<i>vigna radiate</i>) Genotypes for yield and Yield Components Grown in Peshawar Valley. <i>J. Agric. Bio. Sci.</i> 1 (4): 6-9</p> <p>39. Amir Z. K., Hamayoon Khan and Rozina Khan. 2007. Influence of Canopy Temperature on Physio-Chemical Quality of soybean. <i>Res. J. Bot.</i>, 2 (4) 202-207.</p> <p>40. Hamayoon Khan., A. Z. Khan, Rozina Khan, Naeto Matsu and Teruo Henmi. 2009. Influence of Zeolite Application on Germination and Seed Quality of Soybean grown on allophanic soil. <i>Res. J. Seed Sci.</i> 2(1): 1-8</p> <p>41. Sajid A., M. Arif, Rozina Gul, Attaullah, S. Shah, S. Azam and I. Ali. 2006. Improving Maize Emergence and Early Seedling Growth through Water Soaking. <i>Scientific Khyber.</i> 19(2): 173-177.</p> <p>42. M. Arif, M. A. Chohan, S. Ali, Rozina Gul and Sajjad Khan. 2006. Response of Wheat to Foliar Application of Nutrients. <i>J. Agric. & Bio. Sci.</i> 1(4): 30-32.</p>
Other Research and creative accomplishments	<ol style="list-style-type: none"> 1. Discriminated genetic diversity of mungbean genotypes. 2. Worked on nodulated and non nodulated lines of chickpea at molecular level using micro satellite markers, not attempted before. 3. Evaluated Desi and Kabuli genotypes of chickpea via micro satellite markers at molecular level. 4. Studied the inheritance pattern of nodulation in Chickpea. 5. Working on results of Microarray analysis of chickpea in which some disease resistance genes are activated after foliar application via flavonoid from agrobacterium.