

Dr. Sami-Ul-Allah

Assistant Professor (Plant Breeding & Genetics)
College of Agriculture, Bahadur Sub-Campus, Layyah
Bahauddin Zakariya University, Multan



Tel: 0092 3336629954
Date of Birth: 06-07-1985

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Marital Status: Married

JOB EXPERIENCE

Assistant Professor	16-06-2016	to date
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*Plant Breeding & Genetics, College of Agriculture,
BZU, Bahadur Sub-Campus, Layyah*

Assistant Professor	09-07-2014 to 15-06-2016
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*Department of Plant Breeding and Genetics, UCA & ES
The Islamia University of Bahawalpur*

Principal responsibilities were:

- a. To plan and carry out breeding studies for development and improvement of crop plants
- b. To improve specific characteristics, such as yield, size, quality, maturity, and resistance to frost, drought, disease and insect pests in plants
- c. To utilize principles of genetics and advance molecular marker techniques for genetic improvement of cereal crops
- d. To breed new varieties and select most desirable plants for crossing.
- e. To breed plants using methods such as inbreeding, crossbreeding, backcrossing, out-crossing, mutating, or inter-specific hybridization and selection.
- f. To select progeny having desired characteristics and continues breeding and selection process to reach desired objectives.
- g. To guide, direct and mentor research scholars in their research projects
- h. To assess, supervise and mentor the progress of research activities of students
- i. Publish the research works and findings in academic books or journals
- j. To undertake teaching classes of graduate as well as the undergraduate students

RESEARCH INTERESTS

Adaptation of field crops to abiotic stresses especially drought, heat, salt and nutrient stress. Screening and evaluation of germplasm for the traits adoptive to abiotic stresses. Screening practices include both at field and molecular level.

ACADEMICS

PhD (Plant Breeding & Genetics) <i>University of Kassel, Germany</i> <i>Grade: Magna cum Laude (With great honor)</i>	2010 - 2013
M.Sc (Hons) Agriculture (Plant Breeding & Genetics) <i>University of Agriculture, Faisalabad Pakistan</i> <i>CGPA 3.80/4.00</i>	2007-2009
B.Sc (Hons) Agriculture (Plant Breeding & Genetics) <i>University of Agriculture, Faisalabad Pakistan</i> <i>CGPA 3.64/4.00</i>	2003-2007
Higher Secondary school certificate (Pre-Medical) <i>B.I.S.E. D.G. Khan (75.09%)</i>	2001-2003
Secondary School Certificate <i>B.I.S.E. D.G. Khan (80.47%)</i>	2000-2001

SCHOLARSHIPS / DISTINCTIONS

HEC indigenous scholarship (batch IV) for master studies

PhD Scholarship from the International Center for Development and Decent Work (funded by the German Academic Exchange Service, DAAD)

Secured “Magna cum laude” (With great honor) in PhD degree

NATIONAL AWARDS

Research productivity award 2017 by Pakistan Council of Science and Technology

RESEARCH PROJECTS

- Won an international collaborative project funded by International center for development and decent work, Germany entitled “Urbanization of agricultural land, fodder and dairy production, and resource use efficiency at the rural-urban interface in Pakistan and India”.
- A HEC project entitled “Genotypic and phenotypic characterization of mutated cotton”
- A university Project entitled “Genotypic response of corn to water stress as affected by potassium application”
- A university project entitled “Genetic and association studies of wheat (*Triticum Aestivum* L) for yield and yield related traits”.

SKILLS

- Field experimentation, experimental layout, Data analysis of large experiments
- Computer skills, MS Word, MS Excel, MS PowerPoint
- Basic orientation to tissue culture techniques
- DNA extraction technique, PCR, Gel Documentation
- Breeding of forages, cereals and cotton
- Basic data analysis by M-stat, Minitab, SPSS, SAS, Sigma Plot and R
- Data analysis and interpretation
- Good command over written and spoken English
- Basic proficiency in German language (A-2 level)

CONFERENCE/SEMINAR ORGANIZED

Organized one-day seminar “profitable wheat production in arid climate” held in BZU Bahadur campus Layyah on 22 November, 2017

Organized national conference “Challenges and Opportunities to Boost Agriculture in Changing Climate” held in BZU Bahadur campus Layyah from March 29-30, 2017

CONFERENCE/ SEMINAR PARTICIPATION

Participated in international DAAD alumni seminar on “Precision agriculture” held from 06-12 November 2017 in University of Göttingen, Germany (**Oral presentation**)

Participated in 1st international conference on “Climate Change and Biodiversity (IC³B-2017) held on May 02-04, 2017 in The Islamia University of Bahawalpur, Pakistan (**Oral presentation**)

Participated in 3rd international conference on “Safe Food for All” on March 2-3, 2017 held at Bahauddin Zakariya University Multan, Pakistan

Participated in national conference “Challenges and Opportunities to Boost Agriculture in Changing Climate” held in BZU Bahadur campus Layyah from March 29-30, 2017 (**poster presentation**)

Participated in international DAAD alumni expert seminar on “Hidden Hunger” held from 12-17 march 2017 in JLU Giessen, Germany (**Oral presentation**)

Participated in international conference on “Hidden Hunger” 20-22 march 2017 in Stuttgart, Germany (**Poster presentation**)

Participated in one-day seminar on “Sustainable Agriculture in Arid Climate” held in BZU Bahadur campus Layyah on May 12, 2016

Participated in international DAAD alumni seminar on “Quality management along organic agri-value chains in developing countries – production, post-harvest technology, processing, marketing and trade” Held at university of Kassel, Witzenhausen, Germany from 2-10 February, 2015 (**Oral presentation**)

Participated in “Tropentag” (17-19 September, 2012) at university of Hohenheim-Stuttgart, Germany **(Poster presentation)**

Participated in “Tropentag” (19-21 September, 2011) at university of Göttingen, Germany **(Poster presentation)**

Participated in International conference on “Applied Genetics and Biotechnology” (8-10 December, 2011) at University of Agriculture Faisalabad, Pakistan

Participated in “International Conference on Urban, Peri-Urban Agriculture, Employment and Value Chain Management” (18-22 October, 2011) at University of Agriculture Faisalabad, Pakistan **(Oral presentation)**

Participated in international conference on “Migration and Desertification” (5-6 January, 2011) at University of Agriculture Faisalabad, Pakistan **(Oral presentation)**

Participated in “1st young leaders summit” on 30 May, 2010 at University of Agriculture Faisalabad.

Participated in international conference on “Recent Advances in Human Nutrition with Special Reference to Vulnerable Groups” held on 22-25 February, 2010 at University of Agriculture Faisalabad, Pakistan

Participated in international conference on “Sustainable food grain production: Challenges & opportunities” (26-27 October, 2009) at University of Agriculture Faisalabad, Pakistan

Participated in international symposium on “Modern Approaches and Techniques in Agriculture to Ensure Food Security in Pakistan” held on 13-14 October, 2008 at University of Agriculture Faisalabad, Pakistan

WORKSHOPS/ TRAINING COURSE

Participated in PhD workshop on “Exploring sustainable development(s)” from 1-8 March, 2014 at University of Kassel, Germany **(Oral presentation)**

Participated in PhD workshop on “From research to reality: Prospects and potential of ICDD doctoral research” from 16-23 March, 2013 at UADY Mexico **(Oral presentation)**

Participated in “Erst Hilfe” (First Aid) training on 17 January, 2013 at University of Kassel, Germany **(Oral presentation)**

Participated in PhD workshop on “Applying Concepts and Methods” from 18-24 March, 2012 at Egerton University Njoro, Kenya **(Oral presentation)**

Participated in workshop on “Experimental Design and Data Analysis using SAS from 18-23 July, 2011 at University of Veterinary and Animal Sciences Lahore, Pakistan

Participated in “Theory Workshop for PhDs” from 12- 15, May 2011 at the University of the Witwatersrand, Johannesburg, South Africa **(Oral presentation)**

Participated in intensive training course on “Remote Sensing & Digital Image Processing” from

29 November to 26 December 2010 at University of Agriculture, Faisalabad, Pakistan

Participated in “Methods Workshop for PhDs” from 27 September to 3 October 2010 at University of Kassel, Germany (**Oral presentation**)

Participated in “PhD Introductory Workshop” from 8–15 April 2010 at University of Kassel, Germany (**Oral presentation**)

4-month internship at Cotton Research Station Multan from 13-02-2007 to 14-06-2007

PUBLICATIONS:

Impact Factor

Wasaya, A., Tahir, M., Yasir, T.A., **Ul-Allah, S.** and Hussain, M. 2018. Impact of Tillage Systems and Temporal Nitrogen Application on Soil Properties, Nitrogen Uptake and Net Returns in Maize. *Int. J. Agric. Biol.* 20: 1953–1960 (**IF:0.75**)

Ijaz, M., Hussain, S., **Ul-Allah, S.**, Nawaz, A., Sattar, A., Sher, A. and Ahmad, T., Timing of Phosphorus and Boron Application Affects Seed Yield, Oil. *Int. J. Agric. Biol.* 20: 1745–1750. (**IF:0.75**)

Hussain, M., Farooq, M., Sattar, A., Ijaz, M., Sher, A. and **Ul-Allah, S.**, 2018. Mitigating the adverse effects of drought stress through seed priming and seed quality on wheat (*Triticum aestivum* L.) productivity. *Pak. J. Agric. Sci.* 55: 313-319 (**IF:0.69**)

Iqbal, M., S. Ul-Allah, M. Naeem, M. Ijaz, M. Hussain, A. Wasaya, Q. Ahmed. 2018. Reproductive Development and Seed Cotton Yield of *Gossypium hirsutum* L. Affected by Genotype and Planting Time. *Int. J. Agric. Biol.* 20: 1591–1596 (**IF:0.75**)

Ul-Allah, S. 2018. Combating Hidden Hunger in Agriculture Perspective. *World Rev Nutr Diet.* 118: 161–166 (**IF:0.55**)

Ul-Allah, S., M. Iqbal, S. Maqsood, M. Naeem, M. Ijaz, W. Ishfaq, and M. Hussain, 2018. Improving the performance of bread wheat genotypes by managing irrigation and nitrogen under semi-arid conditions. *Arch. Agron. Soil Sci.*, (published online at doi.org/10.1080/03650340.2018.1450974) (**IF:2.25**)

Hussain, M., Farooq, S., Hasan, W., **Ul-Allah, S.**, Tanveer, M., Farooq, M., Nawaz, A. 2018. "Drought stress in sunflower: Physiological effects and its management through breeding and agronomic alternatives." *Agricultural water management* 201: 152-166. (**IF:2.85**)

Hussain, M., Ahmad, S., Hussain, S., Lal, R., **Ul-Allah, S.** and Nawaz, A. 2018. Rice in Saline Soils: Physiology, Biochemistry, Genetics, and Management. *Advances in Agronomy.* 148: 231-287 <https://doi.org/10.1016/bs.agron.2017.11.002> (**IF:5.84**)

Naeem, M., M. Iqbal, **S. Ul-Allah**, W. Nazir, W. Zahid. 2017. QTL Identification for Within-Boll Yield Components of *Gossypium hirsutum* L. *The Philippine Agricultural Scientist.* 100:

- Iqbal, M., **Ul-allah, S.**, M. Naeem. M. Ijaz. A. Sattar, A. Sher. 2017. Response of cotton to water and heat stress: from field to gene. *Euphytica*, 213(6):131 (IF:1.63)
- Sher, A., M.U Ali, M Ijaz, A Sattar, **S Ul-Allah**, A Qayyum. 2017. Foliar application of thiourea improves the safflower yield and quality. *Zeitschrift für Arznei- und Gewürzpflanzen*. 22:78-83 (IF:0.16)
- Sher, A., Fayyaz-ul-hassan, H.A., Ijaz, M., Sattar, A., Yasir, T., **Ul-allah, S.** Qayyum, A., 2017. Climatic variation effects on canola (brassica napus) genotypes. *Pakistan Journal of Botany*. 49(SI): 111-117 (IF:0.69)
- Nazish, T., Shabbir, G., Ali, A., **Ul-Allah, S.**, Naeem, M., Javed, M., Batool, S., Arshad, H., Hussain, S.B., Aslam, K. and Seher, R., 2017. Molecular diversity of Pakistani mango (*Mangifera indica* L.) varieties based on microsatellite markers. *Genetics and molecular research: GMR*, 16(2) DOI <http://dx.doi.org/10.4238/gmr16029560> (IF:0.75)
- Shakeel, A., M. Naeem, I. Ali, **Ul-allah, S.**, I. Afzal, A. Saeed, M. Iqbal. 2017. Genetic mechanism controlling selected within boll yield components and physiological traits of *Gossypium hirsutum* L. Under salinity stress. *Turk J Field Crops* 22:89-95. (IF:0.47)
- Ul-allah, S.**, Iqbal, M., Naeem, M. And Zahid, W. 2017. Genetic dissection of association among within-boll yield components and their relationship with seed cotton yield in F3 populations of *Gossypium hirsutum* L. *Plant Genetic Resources: Characterization and Utilization*. *Plant Genetics Resources*, 15:157-164 (IF:0.61)
- Naeem, M., Ghouri, F., Shahid, M.Q., Iqbal, M., Baloch, F.S., Chen, L., **Ul-Allah, S.**, Babar, M., Rana, M., (2015) Genetic diversity in mutated and non-mutated rice varieties. *Genet. Mol. Res.* 14, 17109-17123 (IF:0.75)
- Ul-allah, S.**, A.A. Khan, T. Fricke, A. Buerkert, and M. Wachendorf. (2015). Effect of fertiliser and irrigation on forage yield and irrigation water use efficiency in semi-arid regions of pakistan." *Experimental Agriculture*: 5, 485-500 (IF:1.07)
- Ul-Allah, S.**, Khan, A. A., Burkert, A., & Wachendorf, M. (2014). Socio-economic aspects of fodder production in urban and peri-urban areas of faisalabad. *Pak. J. Agri. Sci*, 51, 483-490. (IF:0.61)
- Ul-Allah, S.**, Khan, A. A., Fricke, T., Buerkert, A., & Wachendorf, M. (2014). Fertilizer and irrigation effects on forage protein and energy production under semi-arid conditions of Pakistan. *Field Crops Research*, 159, 62-69. (IF:3.05)
- Ashfaq, M., Haider, M. S., Khan, A. S., & **Ul-Allah, S.** (2013). Heterosis studies for various morphological traits of basmati rice germplasm under water stress conditions. *The Journal of Animal & Plant Sciences*, 23(4), 1131-1139 (IF:0.38)
- Ul-Allah, S.**, Khan, A., & Ashfaq, W. (2011). Genetic analysis of physio-morphological traits in bread wheat (*Triticum aestivum* L.) under water stress conditions. *Cereal Research Communications*, 39(4), 544-550. (IF:0.49)

Ul-Allah, S., Khan, A.S., Raza, A. and S. Sadique, S. (2010). Gene Action Analysis of Yield and Yield Related Traits in Spring Wheat (*Triticum aestivum* L.). Int. J. Agric. Biol., 12, 125-128 (IF:0.75)

Khan, A.S., **Ul-Allah, S.,** and S. Sadique, S., (2010). Genetic Variability and Correlation among Seedling Traits of Wheat (*Triticum aestivum* L.) under Water Stress. Int. J. Agric. Biol., 12, 247–250 (IF:0.75)

Other Peer Reviewed

Ahmad S, Ahmad MQ, Qayyum A , Saleem MA , Malik W , **Ul-Allah S,** ALI Q. 2017. Estimation of combining ability and genetic advance in bread wheat using line × tester analysis. Int. J Bio Pharm All Sci. 6: 2525-2536

M. Naeem, M. Iqbal, Nasira Parveen, **Ul-Allah, S.,** Q. Abbas, A. Rehman M. Sad (2016) An over View of Bakanae Disease of Rice. American-Eurasian Journal of Agricultural & Environmental Sciences. 16: 270-277

Naeem, M., Ijaz, S., Iqbal, M., **Ul-Allah, S.,** Shareef, Z., & Rana, M. (2014). Genetics of Some Polygenic Traits of Upland Cotton. *J. Appl. Environ. Biol. Sci*, 4, 380-382.

Ul-Allah, S., Iqbal, M., Shah, G. M., Naeem, M., Saeed, F., Ashfaq, W., & Rashid, M. A. R. (2014). Genetic variability and correlation studies for seedling traits of wheat (*Triticum aestivum* L.) genotypes under normal and water stress conditions. *Journal of Agricultural and Crop Research*, 2, 173-180.

Ashfaq, M., Haider, M. S., Khan, A. S., & **Ul-Allah, S.** (2012). Breeding potential of the basmati rice germplasm under water stress condition. *African Journal of Biotechnology*, 11, 6647-6657.

Aslam, M., M. Ashfaq, T. Saeed, **Ul-Allah, S.,** and Y. Zafar. 2010. In vitro Morphogenic Response of Cotton (*Gossypium hirsutum* L.) from Apical Meristem Culture. Am-Euras. J. Agric. & Environ. Sci., 7: 07-11

Aslam, M., M. Ashfaq, Y. Zafar, **Ul-Allah, S.** and M. Sajjad, 2009. Induction of qualitative marker traits(s), via DNA macroinjections in cotton and its characterization with RAPD markers. Am.-Eurasian J. Sustain. Agric., 3: 797-803

Aslam, M., M. Ashfaq, T. Saeed, **Ul-Allah, S.** and M. Sajjad, 2009. Development and Evaluation of a New High Yielding and Better Fibre Quality Mutant NIAB-824 of Cotton Through Pollen Irradiation. Am.-Eurasian J. Sustain. Agric., 3: 715-720

Conference Proceedings/Abstracts

Sami Ul-Allah, Muhammad Iqbal, Muhammad Ijaz, Hafiz Muhammad Aatif, Ch. M. Shahid Hanif, Muhammad Naeem. 2017. Sustainable wheat production strategies with limited water and nutrient availability. International DAAD alumni Seminar – Food security by precision agriculture, 06-13 November, 2017 held at University of Goettingen, Germany

Muhammad Ijaz, Sami Ul-Allah, Hafiz Muhammad Aatif, Ahmad Nawaz, Ch. M. Shahid Hanif,

Tahira Abbas, Toqeer Ahmad Yasir. 2017. Impact of biochar prepared at varying temperatures on carbon stock and wheat productivity. International DAAD alumni Seminar – Food security by precision agriculture, 06-13 November, 2017 held at University of Goettingen, Germany

Sami-Ul-Allah, M. Iqbal, M. Naeem, S. Ahmad, M. Ijaz, Shahid Rizwan et al. Use of chemical mutagens to create new genetic variation in upland cotton. Abstract published in 1st international conference on “Climate Change and Biodiversity (IC³B-2017) held on May 02-04, 2017 in The Islamia University of Bahawalpur, Pakistan

Iqbal, M., **Sami-Ul-Allah** and M. Naeem. Effect of sowing dates on reproductive traits of *Gossypium hirsutum*. Abstract published in national conference “Challenges and Opportunities to Boost Agriculture in Changing Climate” held in BZU Bahadur campus Layyah from March 29-30, 2017

Naeem, M, M. Iqbal, **Sami-Ul-Allah**, A. Shakeel. Line X tester analyses for combining ability studies of *Oryza sativa*. Abstract published in national conference “Challenges and Opportunities to Boost Agriculture in Changing Climate” held in BZU Bahadur campus Layyah from March 29-30, 2017

Ahmad, M.Q., S. Zaheer, **Sami-Ul-Allah**, A. Qayum, W. Malik, E. Imran. Association among wheat kernel associated traits determined using digital image analyses under water limited conditions. Abstract published in national conference “Challenges and Opportunities to Boost Agriculture in Changing Climate” held in BZU Bahadur campus Layyah from March 29-30, 2017

Sami-Ul-Allah, M. Ijaz, M. Iqbal, M. Naeem, A. Sher, M. Saqib, U.F. Khera. Genotypic response of maize hybrids to water stress under varying levels of potassium. Abstract published in national conference “Challenges and Opportunities to Boost Agriculture in Changing Climate” held in BZU Bahadur campus Layyah from March 29-30, 2017

Iqbal, M., **Sami-Ul-Allah** and M. Naeem. Role of *Bt* gene expression for the management of boll worms in cotton. Abstract published in national conference “Challenges and Opportunities to Boost Agriculture in Changing Climate” held in BZU Bahadur campus Layyah from March 29-30, 2017

Sami-Ul-Allah, A.A. Khan, T. Fricke, A. Buerkert, M. Wachendorf. Fertilizer and irrigation effects on forage protein and energy production under semi-arid conditions of Pakistan. In: “Linkages, value chains and development along the rural-urban interface”, January 09-12, 2014, University of agriculture, Faisalabad. Pakistan.

Sami-Ul-Allah, A.A. Khan, T. Fricke, M. Wachendorf. Towards a Water and Nutrient Efficient Forages Production in Pakistan. In: “Agricultural development within the rural-urban continuum”. Tropentag, September 17-19, 2013, Stuttgart-Hohenheim. Germany.

Sami-Ul-Allah, A.A. Khan, S. Rehman, M. Wachendorf. Forage Production with Limited Water and Nutrient Resources in Pakistan. In: “Resilience of agricultural systems against crises”. Tropentag, September 19-21, 2012, Göttingen - Kassel/Witzenhausen.

Sami-Ul-Allah, A.A. Khan, M. Wachendorf. Socioeconomic aspects and crop management in

fodder production areas of Faisalabad. International Conference on Urban, Peri-Urban Agriculture, Employment and Value Chain Management, October 18-22, 2011, University of Agriculture Faisalabad. Pakistan.