



Lasbela University
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Research Area:	Plant Genetics and Stress physiology

QUALIFICATION

DEGREE	PASSING YEAR	MAJORS	UNIVERSITY
B.Sc. (Hons) Agri. PBG	2011	Plant Breeding and Genetics	University of Sargodha
M.Sc. (Hons) Agri. PBG	2013	Plant Breeding and Genetics	University of Agriculture Faisalabad, Faisalabad, Pakistan
PhD PBG	2018	Plant Breeding and Genetics	University of Agriculture Faisalabad, Faisalabad, Pakistan

PUBLICATIONS (NATIONAL/INTERNATIONAL)

1. Naeem Akhtar, Shadab Shaukat, Zafar Iqbal, Ahsan Aziz, Talat Mahmood, Muhammad Asif, Nadeem Raza, Sammer Fatima, Rizwan Shukat, Iqra Kousar, Atif Ali and Muhammad Ramzan, "Interaction of Genetic Variability \times Phytohormonal Composition and Concentration May Influence Speed of In Vitro Regeneration of Potato (*Solanum Tuberosum* L.)" Pak. J. Agri. Sci., Vol. 58(X), 1547-1554; 2021,). DOI: 10.21162/PAKJAS/21.398
2. Aftab Shaukat, Irfan Shaukat, Shahid Ali Rajput, Rizwan Shukat, Sana Hanif, Imran Shaukat, Xinxin Zhang, Chao Chen, Xuyang Sun, Tingzhu Ye, Kaifeng Niu, Zhiqiu Yao, Shadab Shaukat, Muhammad Safdar, Mohamed Abdelrahman, Umair Riaz, Junwei Zhao, Xiaoying Gu and Liguang Yang, "Ginsenoside Rb1 Mitigates Escherichia coli Lipopolysaccharide-Induced Endometritis through TLR4-Mediated NF- κ B Pathway" Molecules 2021, 26, 7089.
<https://doi.org/10.3390/molecules26237089>
3. Muhammad Majeed, Aqil Tariq, Muhammad Mushahid Anwar, Arshad Mahmood Khan, Fahim Arshad, Faisal Mumtaz, Muhammad Farhan, Lili Zhang, Aroosa Zafar, Marjan Aziz, Sanaullah Abbasi, Ghani Rahman, Sajjad Hussain, Muhammad Waheed, Kaniz Fatima and Shadab Shaukat, "Monitoring of Land Use–Land Cover Change and Potential Causal Factors of Climate Change in Jhelum District, Punjab, Pakistan, through GIS and Multi-Temporal Satellite Data" Land 2021, 10, 1026.1-17

<https://www.mdpi.com/2073-445X/10/10/1026>

4. Mubasher Ahmad, Muhammad Arshad, Ikram Ullah, Hamid Ali, Adnan Ghani¹, Abdur Rauf, Shadab Shaukat, Muhammad Kamran Azam, Sikandar Sher, Bahrul Amin, Faheem Ul Haq, and Afza Tabassum, "Effect of air layering on rooting attributes of different olive cultivars" *BIOSCIENCE RESEARCH*, 2021 18(3): 2336-2341.

[https://www.isisn.org/BR18\(3\)2021/2336-2341-18\(3\)2021BR21-285.pdf](https://www.isisn.org/BR18(3)2021/2336-2341-18(3)2021BR21-285.pdf)

5. Muhammad Nawaz, Xiukang Wang, Muhammad Hamzah Saleem, Muhammad Hafeez Ullah Khan, Javaria Afzal, Sajid Fiaz, Sajjad Ali, Hasnain Ishaq, Aamir Hamid Khan, Nagina Rehman, Shadab Shaukat and Shafaqat Ali, "Deciphering *Plantago ovata* Forsk Leaf Extract Mediated Distinct Germination, Growth and Physio-Biochemical Improvements under Water Stress in Maize (*Zea mays* L.) at Early Growth Stage" *Agronomy* 2021, 11, 1404. <https://doi.org/10.3390/agronomy11071404>.

<https://www.mdpi.com/2073-4395/11/7/1404/htm>

6. Shadab Shaukat, Iqra Kousar, Sammer Fatima, Rizwan Shukat, Atif Ali, Javed Ahmad, Naeem Akhtar, Majid Nadeem, Jahanzaib Farooq and Muhammad Ramzan, "Evaluation Of Spring Wheat Genotypes For Terminal Heat Stress", *SABRAO J Breed Genet.* 53 (2) 239-247, 2021

<http://sabraojournal.org/wp-content/uploads/2021/06/SABRAO-J-BREED-Genet-53-2-239-247-Shaukat.pdf>

7. Aftab Shaukat, Sana Hanif, Irfan Shaukat, Rizwan Shukat, Shahid Ali Rajput, Kangfeng Jiang, Muhammad Akhtar, Yaping Yang, Shuai Guo, Imran Shaukat, Masood Akhtar, Shadab Shaukat, Ligu Yang, Ganzhen Deng, "Upregulated-gene expression of pro-inflammatory cytokines, oxidative stress and apoptotic markers through inflammatory, oxidative and apoptosis mediated signaling pathways in Bovine Pneumonia" *Microbial Pathogenesis*, 155:104935, 1-9, 2021.

<https://reader.elsevier.com/reader/sd/pii/S0882401021002072?token=8B0C052AAFB861D106C059A46B250F2F48733CDADC123D8F7E460629B5BFBC7F6623FE371FD3505EF17E4E6D76636B1B&originRegion=eu-west-1&originCreation=20210602040552>

8. Aftab Shaukat, Irfan Shaukat, Shahid Ali Rajput, Rizwan Shukat, Sana Hanif, Kangfeng Jiang, Tao Zhang, Muhammad Akhtar, Imran Shaukat, Xiaofei Ma, Junfeng Liu, Shadab Shaukat, Talha Umar, Masood Akhtar, Ligu Yang, Ganzhen Deng, "Ginsenoside Rb1 protects from *Staphylococcus aureus*-induced oxidative damage and apoptosis through endoplasmic reticulum-stress and death receptor-mediated pathways" *Ecotoxicology and Environmental Safety* 219:112353, 1-12, 2021.

<https://reader.elsevier.com/reader/sd/pii/S0147651321004644?token=3232A8835C4EB00E76C7776C631E78AB4E85DF69698EA7CD6EA29CCAA6718882F803C6BFA140B05153A65F728F8BEDC7&originRegion=eu-west-1&originCreation=20210602035625>

9. Masood Sadiq Butt, Sadia Aslam¹, Rizwan Shukat, Syed Qamar Abbas, Muhammad Issa Khan, Shadab Shaukat and Muhammad Shahid, " Production of Protein Hydrolysate from Rohu (*Labeo rohita*) Waste using Fungal Proteases", *Pakistan J. Zool.*, vol. 53(4), 1373-1381, 2021.

<http://researcherslinks.com/current-issues/Production-Protein-Hydrolysate-from-Rohu/20/1/3843/html>

10. Shadab Shaukat, Iqra Kousar, Muhammad Kashif, Rizwan Shukat, Javed Ahmed, Atif Ali, Muhammad Hamzah Saleem, Naeem Akhtar, Aftab Shaukat, Saif-Ur-Rehman, Majid Nadeem and Muhammad Hammad Tanveer "Genetic Analysis of Pakistani Wheat Germplasm For Yield Contributing Traits Under Normal and Heat Stressed Conditions" *Pak. J. Agri. Sci.*, Vol. 57(6), 1503-1508, 2020.

<http://www.pakjas.com.pk/papers/3276.pdf>

11. Muhammad Imran, Xuecheng Sun, Saddam Hussain, Usman Ali, Muhammad Shoaib Rana, Fahd Rasul, Shadab Shaukat, Chengxiao Hu, "Molybdenum Application Regulates Oxidative Stress Tolerance in Winter Wheat Under Different Nitrogen Sources" *J Soil Sci Plant Nutr.* (20), 1827–1837, 2020.

<https://doi.org/10.1007/s42729-020-00254-6>

12. Muhammad Hamzah Saleem, Muhammad Rehman, Shah Fahad, S.A. Tung, N. Iqbal, A. Hassan, A. Ayub, M.A. Wahid, Shadab Shaukat, L. Liu, and G. Deng, "Leaf gas exchange, oxidative stress, and physiological attributes of rapeseed (*Brassica napus* L.) grown under different light-emitting diodes" *Photosynthetica*. 58(3): 836-845, 2020.

<https://ps.ueb.cas.cz/pdfs/phs/2020/03/18.pdf>

13. Rana Abdullah Abbas, Naeem Akhtar, Muhammad Imran Hamid, Ahsan Aziz, Talat Mahmood, Shadab Shaukat, Asif Tanveer and Sana Noureen, "Demarcating genotypic, phenotypic variability, broad sense heritability and principal components of sugarcane (*Saccharum officinarum* L.) genotypes for better yield, quality and resistance against sugarcane mosaic virus (SCMV)" *Wulfenia*. 25(5) 103-118, 2020.

<http://www.multidisciplinarywulfenia.org/archive/index.php/?volume=27&issue=5>

14. Aftab Shaukat, Sana Hanif, Irfan Shaukat, Muhammad Ahsan Naeem, Shadab Shaukat, Rizwan Shukat, Shahid Ali Rajput, Imran Shaukat, Mubashar Hassan, Khalid Mehmood, Saqib Umar and Muhammad Ali Jamil, "In Silico Profiling of Regulatory MicroRNA Targets in Programmed Cell Death 1 Gene" *Pak. J. Zool.* vol. 52(4), 1587-1590, 2020.

<http://researcherslinks.com/current-issues/In-Silico-Profiling-of-Regulatory-MicroRNA/20/3/2865/html>

15. Aftab Shaukat, Tauseef ur Rehman, Rizwan Shukat, Shahid Ali Rajput, Shadab Shaukat, Muhammad Ahsan Naeem, Mubashar Hassan, Tabassam Fatima, Fayyaz Ahmad, Usman Saleem, Fatima Arooj, Ashar Mahfooz and Anas Sarwar Qureshi, "Effects of Flushing on Reproductive Performance of Teddy Goats (*Capra hircus*)" *Pak. J. Zool.* Vol. 52(2), 457-463, 2020.

<http://researcherslinks.com/current-issues/Effects-of-Nutrient-Flushing-on-Production/20/1/2636>

16. Shadab Shaukat, Abdus Salam Khan, Makhdoom Hussain, Muhammad Kashif and Nisar Ahmad, "Selection of Superior Parents and Cross Combinations for Quality Traits in Bread Wheat (*Triticum aestivum* L.) Under Normal and Heat Stressed Conditions" *Pak. J. Agri. Sci.*, Vol. 55(4), 801-807; 2018.

<https://www.pakjas.com.pk/papers/2894.pdf>

17. Muhammad Ahsan Khan, Muhammad Kashif, Javed Ahmad, Abdus Salam Khan, Ihsan Khaliq, Fatima Bilquees and Shadab Shaukat, "Sadaf- a potential donor for enhancing frequency of doubled haploids in wheat × maize crossing system" *Pak. J. Agri. Sci.*, Vol. 51(2), 363-367; 2014.

<https://www.pakjas.com.pk/papers/2284.pdf>

PAPER PRESENTATIONS IN INTERNATIONAL CONFERENCES

1. 16th ICC Cereal and Bread Congress online (International Association for Cereal Science and Technology GmbH, Stubenring 12, A-1010 Vienna, Austria) 29-31 March 2021.
2. International conference on "Agricultural, Biological and Life Science" at Edirne, Turkey on 2-5 September 2018.
3. Workshop on "Latest Technologies for Crop Improvement" at Venezia Palace Hotel, Antalya, Turkey on 22-27 February 2015.
4. Minia International Conference for "Agriculture and Irrigation in the Nile Basin Countries" at Minia University Center for Arts and Letters, Minia University, El-Minia, Egypt on 26-29 March 2012.

PAPER PRESENTATIONS IN NATIONAL AND INTERNATIONAL CONFERENCES

1. 1st International Wheat Conference Organized by Department of Plant breeding and Genetics, University of Agriculture Faisalabad, Pakistan. 19-20 October 2022.
2. 1st International Conference on "Climate Resilient Agriculture for Sustainable Development & Food Security" Organized by Department of Agricultural Sciences, Allama Iqbal Open University (AIU), Islamabad, Pakistan. 5-7 September 2022.
3. 7th international conference on "Climate Smart Agriculture: innovations and adaptations" organized by Faculty of Agriculture, University of Poonch Rawalakot, AJK. Pakistan on 15-17 June 2022.
4. Two days international webinar on "Water and Plants: Overview Allied Factors and Strategies worldwide" organized by Department of Botany, Government College University Faisalabad, Pakistan. 21-22 March, 2022.
5. 1st International Webinar on "Plants, Abiotic Stresses and Economy: Scenario and Strategies Worldwide" organized by Department of Botany, Government College University Faisalabad, Pakistan. 14-15 July, 2021.
6. 2nd International conference on "Climate Smart Agriculture: the Way towards Sustainability" at Department of Agronomy, MNS-University of Agriculture, Multan, Pakistan on November 26-27, 2019.
7. 9th National Wheat Conference "Innovative Trends In Wheat, Way Forward To Sustainable Wheat Production" at College of Agriculture, University of Sargodha, Pakistan on 12-14 February 2019.
8. 5th International conference on "Agriculture, Food Security & Climate Change" at Faculty of Agriculture, University of Poonch Rawalakot, AJK. Pakistan on 9-11 September 2014.
9. International Conference on "Applied Genetics and Biotechnology" at Centre of Agricultural Biochemistry and Biotechnology (CABB), University of Agriculture Faisalabad, Pakistan on 08-10 December 2011.

TEACHING EXPERIENCE

Designation	Organization	From	To
Visiting Lecturer	University of Agriculture Faisalabad, Sub Campus Burewala-Vehari	28-08-2018	01-05-2019
Assistant professor (IPFP)	University of Sargodha	02-05-2019	01-05-2020
Visiting Assistant Professor	University of Agriculture Faisalabad	18-09-2020	30-05-2021
Visiting Assistant Professor	University of Agriculture Faisalabad, Sub Campus Burewala-Vehari	18-09-2021	07-03-2022
Assistant Professor	Lasbela University of Agriculture, Water and Marine Sciences	08-03-2022	Up to date

Workshops/Seminars/Trainings Attended and Conducted:

- One day training and awareness campaign "Food Safety-A Shared Responsibility" at National Institute of Food Science and Technology, University of Agriculture Faisalabad, **Pakistan on 23 August 2022.**
- One day training workshop on "National and International Regulatory Framework on Food & Food Products" at National Institute of Food Science and Technology, University of Agriculture Faisalabad, **Pakistan on 20 May 2022.**
- Two days workshop on "Data Analysis in Social Sciences" organized by Institute of Agricultural Extension, Education and Rural Development University of Agriculture Faisalabad, **Pakistan on 14-15 May 2022.**
- Participated in Pak-Indonesia Food and Nutrition Festival & International conference on "Palm Oil & its Future Perspectives" at National Institute of Food Science and Technology, University of Agriculture Faisalabad, **Pakistan on 12-13 February 2020.**
- 9th National Wheat Conference "Innovative Trends in Wheat, Way Forward To Sustainable Wheat Production" at College of Agriculture, University of Sargodha, **Pakistan on 12-14 February 2019.**
- 1st Australia-Pakistan International Conference on "Wheat for Food Security" at Main Muhammad Nawaz Shareef University of Agriculture, Multan, **Pakistan, on 24-25 March 2019.**
- 2nd International conference on "Climate Smart Agriculture: the Way towards Sustainability" at Department of Agronomy, MNS-University of Agriculture, Multan, **Pakistan on November 26-27, 2019.**
- Participated in one day symposium "Pioneering Idea in Agriculture" **Washington State University, USA** on 17th March 2017.
- Attended one-day "Plant Science Symposia" **University of California Davis, USA** on 24th April 2017.
- Workshop on "Biofortification of staple crops" at Department of Agronomy, University of Agriculture Faisalabad, **Pakistan on 29-31 March 2015.**
- Workshop on "Applications of biotechnology for wheat improvement" National Institute for Biotechnology and Genetic Engineering at Faisalabad, **Pakistan on 17-18 February 2015.**
- International seminar on "Global Change & Pakistan Perspective" at Department of Agronomy, University of Agriculture Faisalabad, **Pakistan on 16 September 2014.**
- 5th International conference on "Agriculture, Food Security & Climate Change" at Faculty of Agriculture, University of Poonch Rawalakot, A.J.K. **Pakistan on 9-11 September 2014.**
- 2nd International conference on Biochar "Agronomic, Socio-Economic & Policy Perspective & C-Market" at Department of Agronomy, University of Agriculture Faisalabad, **Pakistan on 12 May 2014.**
- Workshop on "Young Researcher skill Development." at University of Agriculture Faisalabad, **Pakistan on 15 December 2012.**
- International Conference on "12th national and 3rd International Conference on Botany." at Quid-e-Azam University Islamabad, **Pakistan on 1-3 September 2012.**
- National "World Camel Day" at University of Agriculture Faisalabad, **Pakistan on 5th June 2012.**
- International Symposium on "Strategies for conservation of endangered ecosystem" at Department of Botany, University of Agriculture Faisalabad, **Pakistan on 16-18 April 2012.**
- Workshop on "Applications of biotechnology for wheat improvement" National Institute for Biotechnology and Genetic Engineering at Faisalabad, **Pakistan on 28-29 February 2012.**

- International Conference on "Diet as an adjunctive measure for prevention and management of dengue epidemics" at National Institute of Food Science and Technology, University of Agriculture Faisalabad, **Pakistan on 30-31 January 2012.**
- Workshop on "Career development workshop" at University of Agriculture Faisalabad, **Pakistan on 30 December 2011.**
- International Conference on "Emerging issues in food safety" at National Institute of Food Science and Technology, University of Agriculture Faisalabad, **Pakistan on 14-16 November 2011.**
- National event of "Punjab Science Olympiad" held at Children Library Complex Lahore, **Pakistan in 2004.**

Short Biography

Member of "Cereals Research Group" of the Department of Plant Breeding and Genetics, Lasbela University of Agriculture, Water and Marine Sciences, Uthal, District Lasbela, Balochistan, Pakistan My current interests are focused on the expression of stress proteins and other stress related primary and secondary metabolites under water, salinity, heat and heavy metal stresses, and finding strategies to fetch greater yields under such conditions to improve wheat crop. I am also involved in the improvement of wheat germplasm for per acre yield according to the standards prescribed by various agencies in Pakistan.