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QUALIFICATION & ACHIEVEMENTS:

PhD (year 2012)

Major: Agronomy – Crop Science.

Research Title: Physiological and biochemical mechanisms of salinity tolerance in barley.

M.Sc. (Hons)

Major: Agronomy - Crop Science with distinction M.Sc (H), Agronomy (1998-2000).

Thesis Title: Effect of sorghum extract and other weed control methods on wheat.

B.Sc. (Hons)

Major: Agronomy - Crop Science with distinction B.Sc (H), Agronomy. (1994-1998)

Review Paper Title: Performance and adaptability of various forage legumes under Peshawar valley condition.

AREA OF INTEREST:

Crop physiology, Crop and seed nutrition, Biochemical mechanisms involved in stress tolerance and Proteomics and genetics study.

EXPERIENCE:

Employer : The University of Agriculture Peshawar, Pakistan
Job Title : Contract Lecturer (January 2004 – March 2008)
Permanent Lecturer (March 2008 - May 2012)
Assistant Professor (May 2012 - Till to date)

Students research program:

Ph.D. as Major Supervisor:	2
Ph.D. as Co-Supervisor:	3
M.Sc. (Hons) as Major Supervisor:	15
M.Sc. (Hons) as Co-Supervisor:	16

- **Short Term PhD Research Attachment (SPRA)** Scholarship to University of Glasgow, UK by British Council and Higher Education Commission.
- **RESEARCH PROJECT:** As Co.PI completed project on Implementing climate smart dry chain technology for improving livelihood of the maize farming community in Pakistan. Funded by USAID USPCAS-AFS competitive Grants Program of Rs. 3.07 billion.

PUBLICATIONS:

INTERNATIONAL (IMPACT FACTOR):

1. Khan, A., A. Muhammad, A.A. Khan, **S. Anwar** and P.A. Hollington, 2019. Nitrogen affects leaf expansion and elongation rates during early growth stages of wheat. Intl. J. Agric. Biol. 21: 1117–1122.
2. Ahmad, N., H. Fazal, B.H. Abbasi, **S. Anwar** and A. Basir. 2012. DPPH-Free radical scavenging activity and phenotypic difference in hepatoprotective plant (*Silybum marianum* L.). Online available in Toxicology and Industrial Health.doi:10.1177/0748233712436637.

3. Ahmad, N., H. Fazal, B.H. Abbasi, I. Rahman, **S. Anwar**, M.A. Khan, A. Basir, H. Inayat, R. Zameer, S.A. Khalil and K.Y. Khan. 2011. DPPH-scavenging antioxidant potential in regenerated tissues of *Stevia rebaudiana*, *Citrus sinensis* and *Saccharum officinarum*. *J. of Med. Plants Res.* 5(14): 3293-3297.
4. **Anwar, S.**, M. Shafi, J. Bakht, M.T. Jan and Y. Hayat. 2011. Effect of salinity and seed priming on growth and biochemical parameters of different barely genotypes. *African J. Biotechnology.* 10(68): 15278-15286.

NATIONAL (IMPACT FACTOR):

5. Khan, A, M. Shafi, J. Bakht, M.O. Khan and S. Anwar. 2019. Response of wheat varieties to salinity stresses as ameliorated by seed priming. *Pak. J. Bot.* 51(6) 1969-1978.
6. Gul, H., A.Z. Khan, S.K. Khalil, H. Rehman, S. Anwar, B. Saeed, Farhatullah and H. Akbar. 2013. Crop growth analysis and seed development profile of wheat cultivars in relation to sowing dates and nitrogen fertilization. *Pak. J. Bot.* 45(3): 951-960. 0.913
7. Bakht, J., M. Shafi, H. Rehman, Raziuddin and S. Anwar. 2011. Effect of planting methods on growth, phenology and yield of maize varieties. *Pak. J. Bot.* 43(3): 1629-1633. Impact factor 0.913
8. Anwar, S., M. Shafi, J. Bakht, M.T. Jan and Y. Hayat. 2011. Response of barley genotypes to salinity stresses as alleviated by seed priming. *Pak. J. Bot.* 43(6): 2687-2691. Impact factor 0.913
9. Shafi, M., J. Bakht, M. J. Khan, M. A. Khan and S. Anwar. 2010. Effect of salinity on yield and ion accumulation of wheat genotypes. *Pak. J. Bot.* 42(6): 4113-4121. Impact factor 0.913

INTERNATIONAL:

10. Islam, M., S. Anwar, M. Shafi, J. Bakht. 2019. Stimulatory effect of phosphorus solubilizing bacteria and phosphorus management on P uptake, phosphorus use efficiency and crude protein of wheat. *Int. J. Biosci.* 15(3): 344-356. *Int. J. Biosci.* 15(3): 344-356.
11. Jalal, R, A.Z. Khan, S. Anwar, J. Ahmad, B. Safia, F. Ahmad, S. Iqbal, Z. Ali, M. Ahmad, A. Aziz, A.R. Khan and A. Saleem. 2019. Influence of different pre sowing seed invigoration techniques on early growth of different maize hybrids *Int. J. Biosci.* 15(2): 370-379.
12. Ahmad, J., S. Anwar, F. Ahmad, S Iqbal, N. Ullah, Ali S.M. Shah, M. Ali, A. Rauf Khan, M. Mehboob, I. Nawaz, I. Ullah, M. Ahmad, M. Khan M and A. Saleem. Dry matter partitioning and phenological traits of maize as influenced by diverse levels of humic acid. *Open Access Journal of Agricultural Research.* 4(1): DOI: 10.23880/oajar-16000220, ISSN: 2474-8846. Pg. 000220.
13. M. Alamzeb, S. Anwar, A. Iqbal, S. Meizhen, M. Iqbal, Sara, M. Ramzan and A. Tabassum. 2018. Application of organic sources and nitrogen affect dry matter partitioning in wheat under tillage systems. *Pakistan Journal of Agricultural Research.* 30 (2). 106-115.
14. M. Alamzeb, S. Anwar, A. Iqbal, B. Parmar and M. Iqbal. 2017. Organic sources nitrogen and tillage systems improve wheat productivity and profitability under semiarid climates. *Journal of Pharmacognosy and Phytochemistry.* 6 (Special issue Part B): 73-78.
15. Iqbal, B., B. Ahmad, Inam Ullah, A.A. Khan, S. Anwar, Z. Muhammad, G. Ahmad, D. Muhammad and S. Khan. 2016. Response of triticale to phosphorus, sulphur and different irrigation levels. *Inter. J. of Agri. and Envir. Res.* 2(4): 303-308.
16. Anwar, S., F. Iqbal, W. Ali Khattak, M. Islam, B. Iqbal and S. Khan. 2016. Response of wheat crop to humic acid and nitrogen levels. *EC Agriculture.* 3(1): 558-565.
17. Khan, A., S. Anwar and M. Z Afridi. 2015. Response of mung bean (*vigna radiata* L.) cultivars to various levels of phosphorous application in agro climatic condition of Peshawar. *International Journal of Agricultural and Environmental Research.* 1(2): 68-72.

18. Anwar, S., W. Ali Khattak, Inamullah, M. Islam, S. Bashir, M. Shafi, and J. Bakht. 2015. Effect of sowing dates and seed rates on the agro-physiological traits of wheat. *Journal of Environment and Earth Sciences*. 5(1): 2225-0948(online).
19. Munir, S., S. Anwar and M. Rehan. 2016. Assessing the impact of ground level ozone on agricultural crops in the United Kingdom. *Inter. J. of Agri. and Envir. Res. (IJAAER)*. 2(3): 212-224. ISSN 2414-8245 (Online).ISSN 2518-6116 (Print)
20. Bashir, S., S. Anwar, B. Ahmad, Q. Sarfraz, W. Ali Khattak, M. Islam. 2015. Response of wheat crop to phosphorus levels and application methods. *Journal of Environment and Earth Sciences*. 5(9): 151-155.
21. Ahmad, N, S. Anwar, H. Fazal and B.H. Abbasi. 2013. Medicinal plants used in indigenous therapy by people of Madyan Valley in district Swat, Pakistan. *Int. J. Med. Arom. Plants*. 3 (1): 47-54.
22. Saeed, B., H. Gul, F. Ali, A.Z. Khan, S. Anwar, Nasrullah, S. Alam, S. Khalid, A. Naz, H. Fayyaz, Azra. 2013. Contribution of soil and foliar fertilization of nitrogen and sulfur on physiological and quality assessment of wheat (*Triticum aestivum* L.). *Natural Science* 5 (9): 1012-1018.

NATIONAL (IN HIGHER EDUCATION COMMISSION APPROVED JOURNALS):

23. Aziz, N., S. Anwar, S. Kashmir, J. Ahmad, B. Saeed, S. Khan. 2019. Response of wheat varieties to different zinc application methods. *Pure and Applied Biology*. 8(1): 485-495.
24. Saifullah., S. Anwar, G.R. Khan, M.M. Anjum, N. Ali, A. Jalal, K. Ali, K.U. Zaman, M. Miraj and A. Sohail. 2019. Effect of potassium and sulfur on grain yield, oil concentration and fatty acid profile of sunflower. *Pure and Applied Biology*. 8(1): 139-150.
25. Manzoor, A. Sohail, S. Ali, M. O. Khan, S. Anwar, H. Nawaz, F. Ahmad, J. Ahmad, M.W. Abbas and M. Kefayatullah. 2019. Impact of potassium levels and application timing on dry matter partitioning of wheat crop in Peshawar valley *Pure and Applied Biology* 8(1): 9-15.
26. Manzoor, A. Sohail, S. Ali, S. Anwar, M.O. Khan, S. Nawaz, F.A. Shah, I. Ali, J. Iqbal, J. Ahmad, F. Ahmad, H. Nawaz and M. Kefayatullah. 2019. Response of planting methods and deficit irrigation on growth and yield attributes of maize under semi-arid conditions. *Pure and Applied Biology* 8(1): 706-717.
27. Anwar, S., M. Amin, B. Saeed, S. Khan, M.O. Khan, S. Kashmir and M. Islam. 2018. Enhancing productivity of late sown wheat with hydro-priming. *Pure and Applied Biology*. 7(4): 1339-1345.
28. Shafi M., Z. Khan, M.O. Khan, H. Ahmad, J. Bakht and S. Anwar. 2018. Enhancing wheat yield through integrated nitrogen and weed management practices. *Pakistan Journal of Weed Science Research*. 24(3): 187-201.
29. Anwar, S., Z. Rehman, B. Saeed, M. Islam, M.O. Khan and J. Ahmad. 2018. Response of mung bean to organic sources and nitrogen levels. *Pure and Applied Biology*. 7(2): 692-699.
30. Anwar, S., A. Hussain, M. Islam, Z. Hussain, Ikramullah, M.N. Sohaib and N. Khan. 2017. Effect of aqueous extracts of allelopathic plants on growth and biomass of wheat and weeds. *Pure and Applied Biology*. 6(4): 1161-1170.
31. Khan, A., M. Shafi, J. Bakht and S. Anwar. 2017. Effect of salinity and seed priming on growth characters of wheat varieties. *Sarhad J. Agric*. 33(3): 435-446.
32. Anwar, S., Waseem Ullah, M. Islam, M. Shafi, A. Iqbal and M. Alamzeb. 2017. Effect of nitrogen rates and application times on growth and yield of maize (*Zea mays* L.). *Pure and Applied Biology*. 6(3): 908-916.
33. Abbas, W., S. Anwar, W. Akram, W.A. Shah, M. Islam, B. Iqbal, Ikramullah, W.A. Khattak, S. Hussain, M.A. Zeb and A. Iqbal. 2016. Response of barley varieties to phosphorus and sulphur levels. *Pure and Applied Biology*. 5(2): 247-254.

34. Anwar, S., I. Khan, N. Ali, B. Iqbal, S. Khan, M.M. Anjum, M.O. Iqbal and S. Hussain. 2016. Phenological traits of wheat response to different levels of humic acid and brassinolide. *Pure and Applied Biology*. 5(4): 782-787.
35. Anwar, S., I. Khan, S. Hussain, M.M. Anjum, B. Iqbal, A. Hussain, M.O. Iqbal and N. Ali. 2016. Wheat response to different levels of humic acid and brassinolide. *Pure and Applied Biology* 5(4): 822-829.
36. Anwar, S., Israeel, B. Iqbal, A.A. Khan, Imran, W. A Shah, M. Islam, W.A. Khattak, Ikramullah, W. Akram and W. Abbas. 2016. Nitrogen and phosphorus fertilization of improved varieties for enhancing phenological traits of wheat. *Pure and Applied Biology* 5(3): 511-519.
37. Anwar, S., Israeel, B. Iqbal, S. Khan, M. Faraz, N. Ali, S. Hussain and M.M. Anjum. 2016. Nitrogen and phosphorus fertilization of improved varieties for enhancing yield and yield components of wheat. *Pure and Applied Biology*. 5(4): 727-737.
38. Anwar, S., F. Iqbal, W. Ali Khattak, M. Islam, B. Iqbal and S. Khan. 2016. Response of wheat crop to humic acid and nitrogen levels. *EC Agriculture*. 3(1): 558-565.
39. Abbas, W., S. Anwar, W. Akram, W.A. Shah, M. Islam, B. Iqbal, Ikramullah, W.A. Khattak, S. Hussain, M.A. Zeb and A. Iqbal. 2016. Response of barley varieties to phosphorus and sulphur levels. *Pure and Applied Biology*. 5(2): 247-254.
40. Munir, S., S. Anwar and M. Rehan. 2016. Assessing the impact of ground level ozone on agricultural crops in the United Kingdom. *International Journal of Agriculture and Environmental Research*. 2(3): 212-224. ISSN 2414-8245 (Online).ISSN 2518-6116 (Print)
41. Islam, M., S. Anwar, Anjum, B. Khan, W. A Shah, M. Ali, Subhan Ud Din, N. Khan and N. Ali. 2016. Effect of nitrogen fertilization and decapitation stress on *Triticum aestivum* L. (Wheat) productivity. *Pure and Applied Biology*. 5(2): 317-325.
42. Iqbal, B., B. Ahmad, Inam Ullah, A.A. Khan, S. Anwar, Z. Muhammad, G. Ahmad, D. Muhammad and S. Khan. 2016. Response of triticale to phosphorus, sulphur and different irrigation levels. *International Journal of Agriculture and Environmental Research*. 2(4): 303-308.
43. Iqbal, B., B. Ahmad, Inam Ullah, Imran, A.A. Khan, S. Anwar, A. Ali, K. Shahzad and S. Khan. 2016. Effect of phosphorus, sulphur and different irrigation levels on phenological traits of Triticale. *Pure and Applied Biology*. 5(2): 303-310.
44. Iqbal, B., M.T. Jan, Z. Mohammad, A.A. Khan, S. Anwar, Imran and K. Shahzad. 2016. Phenological traits of Maize influenced by integrated management of compost and fertilizer Nitrogen. *Pure and Applied Biology*. 5(1): 58-63.
45. Shah.W.A., Z. Hayat, Ikramullah, S. Anwar and B. Iqbal. 2016. Response of different wheat varieties to various seed rates. *Pure and Applied Biology*. 5(3): 529-537.
46. Shah.W.A., Z. Hayat, R. Amin, S. Anwar, M. Islam and Anjum. 2016. Yield and yield components of wheat as affected by different seed rates and nitrogen levels. *Pure and Applied Biology* 5(3): 547-553.
47. Islam, M., S. Anwar, S. Bashir, W.A. Khattak, Imran, M. Ali and N. Khan. 2015. Growth and yield components of wheat varieties as affected by dual purpose practices. *Pure and Applied Biology*. 4(4): 491-496.
48. Khan, A., S. Anwar and M. Z Afridi. 2015. Response of mung bean (*vigna radiata* L.) cultivars to various levels of phosphorous application in agro climatic condition of Peshawar. *International Journal of Agricultural and Environmental Research*. 1(2): 68-72.

MEMBERSHIP:

1. Life Member Pakistan Weed Science Society.
2. Life Member Pakistan Botanical Society.
3. Member Soil Science Society of Pakistan.
4. Life Member Pakistan Agronomy Society.

REFERENCES:

1. ***Prof. Dr. Jehan Bakht***
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