

CURRICULUM VITAE DR. MUHAMMAD ANWAR-UL-HAQ

PROF. DR. MUHAMMAD ANWAR-UL-HAQ

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Saline Agriculture Research Centre,
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AREAS OF EXPERTIES

- Soil Science/ Environmental Sciences / Climate Change
- Agriculture and Food Security
- Management of Saline Soil and Water Resources for Agriculture Production
- Climate Change Resilience and Environmental Sustainability

ACADEMIC QUALIFICATION

Post Doctorate (2013-14): CEREGE, University of Aix Marseille, Aix en Provence, France

Ph.D. Soil Science (2006): University of Agriculture, Faisalabad, Pakistan

M.Sc. (Hons) Agri., Soil Science (1997): University of Agriculture, Faisalabad, Pakistan

B.Sc. (Hons) Agri. Soil Science (1995): University of Agriculture, Faisalabad, Pakistan

ACADEMIC APPOINTMENTS

31.05.2024: Professor, Institute of Soil & Environ. Sciences, Univ. of Agriculture, Faisalabad

2019 to 30.05.2024: Associate Professor, Institute of Soil & Environ. Sciences, Univ. of Agriculture, Faisalabad

2006-2019: Assistant Professor, Institute of Soil & Environ. Sciences, Univ. of Agric., Faisalabad, Pakistan

2001-2006: Lecturer, Saline Agric. Research Centre, Dept. of Soil Science, Univ. of Agric, Faisalabad, Pakistan

1998-2001: Senior Technical Officer, Nature Farming Research and Development Foundation Faisalabad.

FORMAL TRAININGS /WORKSHOPS (NATIONAL / INTERNATIONAL)

1. Participation in International Training workshop on climate change at Pakistan Academy of Sciences Islamabad April 9-14, 2025.
2. Organized International Training Workshop on “Application of Geospatial Technique for Agriculture Resource Management” March 13-17, 2023, DLC-3-UAF
3. Completed 5 days Capacity Building course for Principal Investigator organized by British Council-Higher Education Commission Islamabad at AVARI hotel Lahore. 9-13 May 2022
4. Participated in training workshop “Advances in Monitoring of Water and Salinity at Farm” organized by MNS Multan on 24th November 2021; 9:00 am at Seminar Hall, MNS-UAM.
5. IPO Training regarding Intellectual Property Rights (IPR’s) on November 01, 2017, at New Senate Hall, University of Agriculture, Faisalabad.
6. PIPRA Training Certificate entitled “Intellectual Property Management and Technology transfer” organized by US Pakistan Center for Advanced Studies in Agriculture and Food Security, UAF. November 9-11, 2015.
7. Indigenous on campus training (IOT) certificate on Modern University Governance Program organized by University of Agriculture, Faisalabad. November 25-29, 2014)
8. In service Training of Officers of “National Bio-Saline Agriculture Program’ NABSAP on the aspect of National Bio-saline Agriculture. Organized by Ministry of Food and Agriculture “National Bio-saline Agriculture Program”, Islamabad. June 1-9, 2010.

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9. Training Workshop conducted by CSIRO Forest Biosciences, Canberra, Australia (April 22-24, 2008) at NIAB, Faisalabad.
10. International Training workshop on Bio saline Agriculture Technology on Bio-saline Agriculture organized by Nuclear Institute for Agriculture and Biology (NIAB) Faisalabad, Pakistan. February 6-17, 2006
11. EU Asia Link Project Short Course on Principles of Experimental Design and analysis, organized by Univ. of Agri. Faisalabad and Univ. of Wales, Bangor, UK December 1-12, 2003.
12. Crawford Fund Supported Training Courses on Saline Agriculture for irrigated land in Pakistan. Saline Agriculture Research Cell, University of Agriculture, Faisalabad. April 18-21, 2000.
13. Nature Farming Training from Asia Pacific Natural Agriculture Network (APNN), Thailand in 1st Jan.1999 to 30th Jan.1999.
14. NCC Certificate from Govt. College, Jhelum during 1988-1990.

AWARDS HONOURS

1. Research Productivity Award (RPA) 2014
2. Research Productivity Award (RPA) 2016
3. Productive Scientist of Pakistan (PSP) 2016
4. Won French Post Doc Year 2013
5. HEC-Approved Supervisor

DISTINCTIONS

- Certificate of Honour from Senior Tutor Office,
- Certificate of Honour from Vice Chancellor UAF on Kissan mela,
- Certificate of Appreciation in UAF Golden Jubilee celebrations
- Certificate of Participation in International conferences at Turkey and UAE,
- Certificate of Appreciation from Vice Chancellor UAF on successful management of Book Fair 2004.

STUDENTS SUPERVISED

Degree	Supervised	Co-Supervisor	On-going
PhD	14	32	05
M.Sc. (Hons)	91	249	06

EXTRA-CURRICULAR

ADMINISTRATION/ ACADEMICS /EXTRA-CURRICULAR

1. Principal Officer (Hostels)/Chief Hall Warden (27.03.2024 to date)
2. Officer Incharge, Saline Agriculture Research Centre (13.10.2021 to date)
3. Associate Senior Tutor: 25.04.2015 to date
4. Associate Hall Warden 28.10.2018 to date 27.07.2021.
5. Deputy Senior Tutor: 20.08.2008 -24-04-2015
6. Focal Person/Incharge Character Building Society UAF
7. Secretary Board of Studies, ISES, UAF (2008-08.11.2024)
8. Member Faculty Board, Faculty of Agriculture
9. Secretary Soil and Environment Science Student Society (SESSS)
10. Member Board of Studies at Govt. College University Faisalabad
11. Member Board of Studies at Mian M. Nawaz Sahrif Agriculture University Multan.
12. Member Board of Studies at BZU Multan
13. Member Board of Studies at IUB
14. Tutor Group Zafar Ali Khan-3, till September 2022.
15. Member Faculty Vigilance/ Examination Committee,
16. President Tug of War, December
17. Coordinator Debating and Quiz Club,

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18. Incharge Internship Program,
19. Member Soil Science Society of Pakistan (UAF-30)
20. Member Pakistan Botanical Society
21. Member of the Environment Approval Committee Govt. of Punjab Environmental Protection Department, Faisalabad
22. HEC Nominee: Member affiliation committee GCUF nominated by HEC-Islamabad.
23. Member Accreditation NAEAC-HEC

SEMINAR/ CONFERENCE

- Organized International Conference = **10**
- Organized National Conference = **57**
- Participated in International Seminar/Conference = **24**
- Participated in National Seminar/Conference = **39**
- Trainings = **12**

PUBLICATIONS

- Total Publications = **128**
- Books Authored = **01**
- Book Chapters Authored = **14**
- Proceedings: 07
- Technical reports: 12
- Research Papers Published in Journals having Impact Factor = **89**
- No. of Research papers (HEC recognized Journals only) = **39**
- Cumulative Impact Factor = >150
- Citations:
- Web of Science Researcher ID (AAD-1748-2022) Publon Citation = **2660**
- H-Index: Publon/Web of Science = **24**
- Google Scholar = **4518**
- Google Scholar = **35**

(a) List of Research Papers Published in HEC Recognized Journals

1. Muhammad Nadeem, Muhammad Anwar ul Haq, Muhammad Ashar Ayub, Ghulam Hasan Abbasi, Haq Nawaz, Muhammad Ali, Rafia Mustafa, Asia Khan, Waqas Manzoor Bhutta. 2024. Climate change induced salinization and quality deterioration of groundwater resources in Pakistan; Current scenario and future prospects. Journal of Health and Climate Change. 3(1): <https://doi.org/10.37939/jhcc.v3i1.8>
2. Tajwar Alam, Muhammad Anwar-ul-Haq, Muhammad Ateeq Ahmed, Asim Hayat, Nida Fatima, Saba Babar, Muhammad Ikram, Zahid Iqbal. 2023. Soil Manuring and Genetic Variation Conjunctively Surmount the Partial Drought Stress in Wheat (*Triticum aestivum* L.). Journal of Plant and Environment. 5(2):98-108. DOI: 10.33687/jpe.005.02.4419
3. Nadeem, M., **M. Anwar ul Haq**, I. Iftikhar, M. Awais, T. Ali, R. Ejaz, W. Umar and R. Ullah. 2023. Comparative effect of integrated fertilization approaches on soil health and crop productivity of wheat (*Triticum aestivum* L.) under different tillage systems. Journal of Agriculture Research 61(1): 25-34.
4. Irshad, I., **M. Anwar ul Haq**, J. Akhtar, and M. Maqsood. 2022. Effects of different organic amendments on maize (*Zea Mays* L.) growth in salt affected soil. Journal of Global Innovations in Agricultural Sciences. 10:121-130. (Y category)
5. Nadeem, M.Z., M.F. Salem, M.A. Wahid and **M.A. Haq**. 2022. Influence of seed priming on growth, yield and fodder quality of pearl millet cultivars. Pakistan Journal of Agricultural Research, 35(1): 215-226. (Y category)
6. Rasool, M., **M. Anwar-ul-Haq**, M. Jan, J. Akhtar, M. Ibrahim and J. Iqbal. 2020. Phytoremedial potential of maize (*Zea mays* L.) hybrid against Cadmium (Cd) and Lead (Pb) toxicity. Pure and Applied Biology: 9(3):1932-1945.
7. Jan, M., S. Hussain, **M. Anwar-ul-Haq**, J. Iqbal, I. Ahmad, M. Aslam and A. Faiz. 2020. Effect of farm yard manure and compost application on transgenic BT cotton varieties. Pakistan Journal of

- Agricultural Research, 33(2): 371-380. ISSN: 0251-0480 DOI | <http://dx.doi.org/10.17582/journal.pjar/2020/33.2.371.380> (Y-Category)
8. Jan, M., **M.Anwar-ul-Haq**, Tanveer ul Haq, Anser Ali, Muhammad Yousaf, Saqib Bashir, Shahbaz Khan.2019. Silicon application improves maize (*Zea mays* L.) performance through ionic homeostasis and ameliorating adverse effects of brackish water. *Asian J Agric & Biol.*: 7(3).1-7
 9. Majeed, A., **M. Anwar-ul-Haq**, A.Niaz, A. Mahmood, N.Ahmad and H.M W.Ali Khan. 2019. Comparison of Soil and Hydroponic Based Screening Process to Select Salt Tolerant Wheat Varieties. *Sarhad Journal of Agriculture*, 35(4): 1107-1112
 10. Naz,T., M. M. Iqbal, O.Farooq, Atique-ur-Rehman, S. Nawaz , M. Ali, J. Akhtar, M. Saqib, **M. Anwar-ul-Haq** and B/ Atta. 2019. Ameliorating Effects of Foliar Applied Salicylic Acid on Growth, Chlorophyll Contents and Antioxidant Enzymes of Wheat Genotypes under Salinity Stress. *Pak. J. life Soc. Sci.* 17(1): 51-57. E-ISSN: 2221-7630; P-ISSN: 1727-4915.
 11. Hussain, S., **M. Anwar-ul-Haq**, S. Hussain, Z. Akram, M. Afzal, I. Shabbir .2017. Best suited timing schedule of inorganic NPK fertilizers and its effect on qualitative and quantitative attributes of spring sown sugarcane (*Saccharum officinarum* L.). *J. Saudi Society of Agri. Sciences* 16: 66-71 ISSN:1658-077X
 12. Naz, T., J. Akhtar, **M. Anwar-ul-Haq** and M. Shahid. 2015. Genetic variability in wheat genotypes for salt tolerance, growth and physiological responses. *Soil Environ.* 34(2): 187-199.
 13. Parveen, **M. Anwar-ul-Haq**, Sajjad Raza, Ghulam Hassan Abbasi, Ahmad Ali and Javaid Akhtar. 2015. Changes in Morphological, Physiological and Chemical Characteristics of Sunflower (*Helianthus annuus* L.) Genotypes Induced by Salt Stress. *Intl. Journal of Plant & Soil Science* 4(4): 377-388 ISSN: 2320-7035.SCIENCEDOMAIN international www.sciencedomain.org
 14. Majeed, A., **M.Anwar-ul-Haq**, J. Akhtar and S.M.A. Basra. 2014. Screening of Maize genotypes against poor quality of water in solution culture. *J. Agri. Res.*52 (3):357-368.
 15. Abbasi, G.H. **M.Anwar-ul-Haq**, M.Jamil, M. Anwar ul Haq, S. Ali, M. Ahmad, F.Z. Akhtar, I. Ahmad, H. N. Khan and M.A. Kharal. 2014. Enhancement of maize production through integrated plant nutrient management in arid climate. *J. Pure and Applied Sciences*, 24-33 (1-2): 7-16. ISSN: 0255-3643 www.iub.edu.pk/jpas
 16. Abbasi, G. H., J. Akhtar, **M.Anwar-ul-Haq** and N. Ahmad. 2012. Screening of maize hybrids for salt tolerance at seedling stage under hydroponic condition. *Soil and Environ.* 31(1):83-90. ISSN: 2074-9546. **Online ISSN: 2075-1141**
 17. Hussain, S.A. J. Akhtar, **M.Anwar-ul-Haq** and R. Ahmad.2011.Growth, yield and ionic concentration of two sunflower (*Helianthus annuus* L.) genotypes exposed to brackish water irrigation. *Soil and Environment* 30 (1): 58-65. ISSN: 2074-9546. **Online ISSN: 2075-1141**
 18. Maqsood, T., J.Akhtar , M.R.Farooq, **M.Anwar-ul-Haq** and Z.A.Saqib. 2008. Biochemical attributes of salt tolerance and salt sensitive maize cultivars to salinity and potassium nutrition. *Pak.J. Agri. Sci.*, 45(1): 1-5. ISSN:0552-9034
 19. Hussain, S.A., J.Akhtar, **M.Anwar-ul-Haq**, M.A. Riaz and Z.A. Saqib. 2008. Ionic concentration and growth response of sunflower (*Helianthus annus* L.) genotypes under saline and or sodic water application. *Soil & Environment.* 27(2):177-184. ISSN: 2074-9546. **Online ISSN: 2075-1141**
 20. Farooq M. R., **M.Anwar-ul-Haq**, J. Akhtar, M.A. Randhawa and T. Maqsood. 2008. Comparative Response of Wheat (*Triticum aestivum* L.) Genotypes to Brackish water at Seedling Stage. *Pak. J. Agri., Sci.*, 45(4): 439-443. ISSN:0552-9034
 21. Hussain K., M. Arif, **M.Anwar-ul-Haq**, T. Hussain and M.Nasim.2007.Compost for growing plants by applying EM-Bio fertilizer. *Pak. J. Agri. Sci.* 44(3):434-442. Impact Factor 1.24. ISSN:0552-9034
 22. Pervaiz, S.,M.Saqib, J.khtar, M. A. Riaz , **M.Anwar-ul-Haq** and M.Nasim. 2007. Comparative growth and leaf ionic composition of four cotton (*Gossypium hirsutum* l) genotypes in response to salinity. *Pak. J. Agri., Sci.*, 44(1): 79-84. ISSN:0552-9034
 23. Ibrahim, M., J. Akhtar, M. Younis, M. A. Riaz, **M. Anwar-ul-Haq** and M. Tahir. 2007. Selection of cotton (*Gossypium hirsutum* L) genotypes against NaCl Stress. *Soil & Envir.* 26 (1): 59-63. ISSN: 2074-9546. **Online ISSN: 2075-1141**
 24. Nasim. M. ,R. H. Qureshi, M. Saqib, T.Aziz, S.Nawaz, J.Akhtar and **M.Anwar-ul-Haq**. 2007. Plantation of eucalyptus *camaldulensis* on salt affected soil under field conditions; growth and soil properties. *Pak.J. Agri.Sci.* 44(3):385-392. ISSN:0552-9034

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25. Nasim. M. ,R. H. Qureshi, M. Saqib, T.Aziz, S.Nawaz, J.Akhtar and **M.Anwar-ul-Haq**. 2007. Properties of Salt affected soil under *Eucalpytus camaldulensis* plantation in field conditions. Pak.J. Agri.Sci. 44(3):401-414
26. Iqbal , M., J. Akhtar, **M.Anwar-ul-Haq** , M. Nasim , A. Saeed an d M. Naveed. 2007. Variation in growth and ion uptake in rice cultivars under NaCl stress in hydroponics. Pak.J. Agri.Sci. 44(3):393-400. ISSN:0552-9034.
27. Basra, S.M.A., I. Afzal, S. Anwar , **M.Anwar-ul-Haq**, M. Shafique and K. Majeed. 2006. Alleviation of salinity stress by seed invigoration Techniques in wheat (*Triticum aestivum* L.) Seed Techno. J. 28 (1): 36-46. (0.62)
28. Bhutta W.M., Javaid Akhtar and **M. Anwar-ul-Haq**, 2005. Cause and effect relations of yield components in spring wheat (*Triticum aestivum* l.) under normal conditions. Caderno de Pesquisa Ser.Bio.,Santa Cruz do Sul,. 17 (1) : 7-13 ISSN 1677-5600. ISSN 1677-5600
29. Akhtar, J. **M. Anwar-ul-Haq**, K. Ahmad, M. Saqib and M. A. Saeed. 2005. Performance of Cotton Genotypes under Saline Conditions. Caderno de Pesquisa Ser.Bio.,Santa Cruz do Sul,. 17 (1): 29-36. ISSN 1677-5600
30. Bhutta, W.M., J. Akhtar and **M. Anwar-ul-Haq**. 2005. Estimation of heritability of some important Traits in spring wheat (*Triticum aestivum* L.) Caderno de Pesquisa Ser.Bio.,Santa Cruz do Sul,. 17 (1): 21-28. ISSN 1677-5600
31. Rasheed .M, W. M.Bhutta, **M.Anwar-ul-Haq** and A. Ghaffar 2004.Genotypic response of maize hybrids to NP application. Intl. J. of Agric. and Bio.6 (4):721-722. ISSN 1560-8530 (0.94)
32. Bhutta, W. M., M. Ibrahim, J. Akhtar, A.Shahzad,, T. Haq and **M.Anwar-ul-Haq** 2004. Comparative performance of sunflower (*Helianthus Annus* L.) genotypes against NaCl salinity. Caderno de Pesquisa Ser.Bio.,Santa Cruz do Sul,. 16 (1) : 7-18. ISSN 1677-5600
33. Akhtar, J. T. Haq, A.Shahzad, **M.Anwar-ul-Haq**, M. Ibrahim and N. Ashraf. 2003. Classification of different wheat genotypes in salt tolerant categories on the basis of biomass production. Intl. J. of Agri. & Bio. 5(3):322-325 ISSN 1560-8530 (0.94)
34. Hussain, A., A.Ghafoor, **M.Anwar-ul-Haq** and M. Nawaz 2003. Application of the Langumir and Freundlich Equations for P adsorption Phenomenon in Saline Sodic Soil. Intl. J. of Agri.,& Bio.5(3) : 349-356. ISSN 1560-8530 (0.94)
35. Akhtar, J.,A. Shahzad, T. Haq, M. Ibrahim and **M.Anwar-ul-Haq**, 2003. Screening of 20wheat lines against salinity in hydroponics. Pak. J.of Life and Social Sciences. 1(2) : 92-97 ISSN 1727-4915
36. Haq.T. Javaid.A., **M.Anwar-ul-Haq** and M.Hussain. 2002. Effect of Soil Salinity on the concentration of Na, K, and Cl in the leaf sap of the four Brassica species. Intl. J.Agri .and Bio. 4(3):385-388. ISSN 1560-8530 (0.94)
37. **M.Anwar-ul-Haq**,T. Hussain, I. Ahmad and J. Tahir. 2002. Enhancing soil productivity by integrated MicrobialIlay Fermented manures with inorganic nutrient for wheat-cotton production.NFE.3(1):31-34 ISSN 1562-255X
38. Zia, M.H., **M.Anwar-ul-Haq** and I. Ahmad 1999. Utilization of underground brackish water with EM-Technology for crop production. Pak.J. Agri. Sci.36 (3-4):186-188 U.A. Faisalabad. ISSN 0552-9034
39. Zia, M.H., I. Ahmad, **M. Anwar-ul-Haq** and M. Jamil. 1999. Alternative of Mineral nutrient sources to sustain wheat production. Intl. J. Agri.& Bio.1(4): 293-296 ISSN 1560-8530 ISSN 1560-8530

(b) RESEARCH PAPERS PUBLISHED IN JOURNALS HAVING IMPACT FACTOR

Sr. No.	Title	Impact Factor
1	Madeeha Kauser, Ejaz Ahmad Waraich, Hafeez ur Rehman, Muhammad Anwar ul Haq .2025. Organic and inorganic amendments improved the morpho-physiological and nutritional status of moringa (<i>Moringa oleifera</i>) genotypes. Acta Physiologiae Plantarum (2025) 47:39 https://doi.org/10.1007/s11738-025-03771-y	2.4
2	Akram, S., M. Anwar-ul- Haq , M. Saqib and E.A. Waraich. 2025. Improving salinity tolerance of wheat (<i>Triticum aestivum</i> L.) genotypes by foliar and soil applications of silicic acid H ₂ SiO ₃ . Soil Environ. 44(1): DOI:10.25252/SE/2025/253556	0.9

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3	Hussain, S.A., M. Nadeem, M. A. Ayub, M. Ali, G. H. Abbasi, M. Anwar-ul-Haq , H. Mehmood, A. Khana, B. K. Alnafisi and M. Irfan. 2025. Health Risk Assessment Associated with Heavy Metals Pollution in Sandy Clay Loam Soils and Vegetables Irrigated by Wastewater: a Case Study of Bahawalpur City. Eurasian Soil Science, 2025, 58:16. ISSN 1064-2293.	1.4
4	Sattar, H., M. Anwar-ul-Haq, H. Aziz, U. Riaz, A. Mahmood, M. Rizwan, M. Naseem, M. S. Alwahibi, M.S. Elshikh, M. Qasim, R. Iqbal.2024. Physicochemical profiling and health risk evaluation of effluent from textile industries: insights from Faisalabad, Pakistan. Toxicology and Environmental Health Sciences. https://doi.org/10.1007/s13530-024-00247-3	1.6
5	Shafiq, A., M. E. Munawar, M. Nadeem, A. Khan., G. H. Abbasi, M. Anwar-ul-Haq , M. A. Ayub, I. Iftikhar, M. Awais 2024. Health risk assessment of bread wheat grown under cadmium and nickel stress and impact of silicic acid application on its growth, physiology and metal uptake. Environmental Science and Pollution Research. 31:55535–55548 https://doi.org/10.1007/s11356-024-34849-8 .	5.19
6	Naeem, A., Haroon, Z.K., M. F. Saleem, M. Anwar-ul-Haq . 2024. IMPROVEMENT IN PRODUCTIVITY AND LAND EQUIVALENT RATIO WITH MAIZE SOYBEAN INTERCROPPING SYSTEM THROUGH CANOPY MANIPULATION. Xi'an Shiyu Daxue Xuebao (Ziran Kexue Ban)/ Journal of Xi'an Shiyu University, Natural Sciences Edition. Vol: 67 Issue 08 2024. ISSN: 1673-064X. DOI: 10.5281/zenodo.13292281.	0.857
7	Jaffar Sattar, Muhammad Uzair Qamara, Isaya Kisekkab, Muhammad Arshad and Muhammad Anwar-ul-Haq . 2024. Artificial intelligence (AI) inspired an innovative approach for real-time flow measurements – water distributions at outlets, in Punjab province Pakistan. Water Policy.26(5): 558-576. doi: 10.2166/wp.2024.265. (W).	1.6
8	Irshad, I., M. Anwar-ul-Haq , J. Akhtar and M. Maqsood. 2024. Enhancing maize growth and mitigating salinity stress through foliar application of proline and glycine betaine. Pakistan Journal of Botany. 56(1): 9-17. DOI: http://dx.doi.org/10.30848/PJB2024-1(34) .	1.2
9	Ali, T., Javaid Akhtar, M. Anwar-ul-Haq , Muhammad Maqsood. 2024. Assessing varietal potential and ameliorating effect of ZnSO ₄ levels in different bread wheat (<i>Triticum aestivum</i> L.) genotypes under salinity stress. Pak. J. Bot., 56(3): 815-826. DOI: http://dx.doi.org/10.30848/PJB2024-3(18)	1.2
10	Ali, T., M. Anwar-ul-Haq , J. Akhtar and E.A. Waraich. 2024. Assessment of different fertilization sources for improving zinc bioavailability in wheat under saline conditions. Soil Environ. 43(1): 14-26. DOI:10.25252/SE/2024/243295.	0.6
11	Muhammad Anwar ul Haq , Muhammad Nadeem, Munaza Naseem, Ghulam Hasan Abbasi, Muhammad Ali, Muhammad Ashar Ayub, Irfan Iftikhar, Muhammad Tayyab Mehmood, Muhammad Awais, Rizwan Ullah, Tasawar Ali. 2024. Role of exogenous silica fertilization and genotype selection in attenuating oxidative and osmotic stress in wheat (<i>Triticum aestivum</i> L.) under water deficit conditions. Plant and Soil: 505:283–298. DOI: 10.1007/s11104-024-06673-z	5.2
12	Nadeem, F., R. Mahmood, M. Anwar-ul-Haq, M. Sabir, Saifullah, Q. Ma, C. Jin, T. Samreen, M. S. Haider. 2024. Zinc Provisioned Enhancement of Manganese Use Efficiency Results in Differential Biomass and Grain Production in Two Rice Cultivars Grown in Clay Loam Soil. Journal of Soil Science and Plant Nutrition. March 15, 2024 (Online Published). https://doi.org/10.1007/s42729-024-01700-5 .	3.9
13	Anwar-ul-Haq, M. , I. Iftikhar ¹ , J. Akhtar and M. Maqsood. 2023. Role of exogenous osmolytes supplementation in ameliorating osmotic, oxidative stress and promoting growth in salinity-stressed soybean genotypes. Journal of Soil Science and Plant Nutrition. 23:3682–3694 (Published online) May 16, 2023. DOI: 10.1007/s42729-023-01289-1.	3.900
14	Muhammad Ashar Ayub, Muhammad Zia ur Rehman, Hamaad R. Ahmad, John-Paul Fox, Preston Clubb; Alan Lee Wright; M. Anwar ul Haq ; Muhammad Nadeem; Cyren M. Rico and Lorenzo	9.988

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	Rossi. 2023. Influence of ionic cerium and cerium oxide nanoparticles on Zea mays seedlings grown with and without cadmium. Environmental Pollution. 322 (2023): 121137. ISSN: 0269-7491,1873-6424	
15	Ghulam Abbas, Fiza Areej, Saeed A Asad, Muhammad Saqib, M. Anwar-ul- Haq , Saira Afzal, Behzad Murtaza, Muhammad Amjad, Muhammad Asif Naeem, Muhammad Akram, Naeem Akhtar, Muhammad Aftab, Kadambot H. M. Siddique. 2023. Differential Effect of Heat Stress on Drought and Salt Tolerance Potential of Quinoa Genotypes: A Physiological and Biochemical Investigation. Plants:12,774. https://doi.org/10.3390/plants12040774 . ISSN: 2223-7747	4.658
16	Muhammad Jan, Muhammad Anwar-Ul-Haq, Talha Javed, Sadam Hussain, Ilyas Ahmad, Muhammad Ashraf Sumrah , Javed Iqbal , Babar Hussain Babar , Aqsa Hafeez , Muhammad Aslam , Muhammad Tahir Akbar, Marjan Aziz, Khadiga Alharbi and Izhar Ullah. 2023. Response of contrasting rice genotypes to zinc sources under saline conditions: Zinc application for salinity tolerance. Phyton-International Journal of Experimental Botany 92(5): 1361-1375. DOI: 10.32604/phyton.2023.026620. ISSN: 0031-9457	1.407
17	Ghafoor, I., T. Naz, M. M. Iqbal, M. Anwar-ul-Haq, M. Saqib, M. A. Qazi, M. Aleem Sarwar, ,S. A. Alharbi, S. Alfarraj and M. L. Battaglia. 2023.Silicon regulated growth, yield, physiological responses, and tissues concentration of Lead in <i>Brassica campestris</i> L grown on Lead contaminated soil. Pak. J. of Botany. 55(SI): 127-134. DOI: http://dx.doi.org/10.30848/PJB2023-SI(15)	1.16
18	Hussaini, K.M., J. Akhtar, M.A. Haq and A.A. Maann. 2022. Impact of heavy metals-enriched dust particles on the growth, metal accumulation and gas exchange attributes of various plant species in urban areas of Faisalabad, Pakistan. Pakistan Journal of Agricultural Sciences 59 6): 913-922. DOI:10.21162/PAKJAS/22.179. Published 30 December 2022. ISSN: 2076-0906,0552-9034	0.856
19	Nadeem, M., M.A. Haq , M. Saqib and M. Maqsood. 2022. Comparative response of bread wheat (<i>Triticum aestivum</i> L.) genotypes in terms of growth traits, tissue health and ionic homeostasis to exogenous silicon application under moderate to strongly salinity stress. Pakistan Journal of Agricultural Sciences. 59(4): 553-565. [Published 28 Aug 2022]. ISSN: 2076-0906,0552-9034	0.856
20	Nadeem, M., M. Anwar ul Haq , M. Saqib, M. Maqsood, I. Iftikhar, T. Ali M.Awais, R. Ullah and Z. He. 2022. Nutrients, Osmotic and Oxidative Stress Management in Bread Wheat (<i>Triticum aestivum</i> L.) by Exogenously Applied Silicon Fertilization Under Water Deficit Natural Saline Conditions. Silicon. 14:11869–11880 https://doi.org/10.1007/s12633-022-01916-z . Published online : 02 May 2022. ISSN: 1876-9918,1876-990X	2.941
21	Nadeem, M., M. Anwar-ul-Haq , Muhammad Saqib, Muhammad Maqsood, Zhenli He. 2022. Ameliorative effect of silicic acid and silicates on oxidative, osmotic stress and specific ion toxicity in spring wheat (<i>Triticum aestivum</i> L.) genotypes. Journal of Soil Science and Plant Nutrition. 22:2334–2345. Published online 04 March 2022. ISSN: 0718-9516	3.872
22	Iftikhar, I., M. A. Haq , J. Akhtar, and M. Maqsood. 2022. Exogenous osmolytes supplementation improves the physiological characteristics, antioxidant enzymatic activity and lipid peroxidation alleviation in drought-stressed soybean. Pakistan Journal of Agriculture Sciences. 59(1): 43-53. Published 18 March 2022] ISSN: 2076-0906,0552-9034	0.748
23	Muneer, M. A., M. Arshad, M. A. Shahid and M. Anwar-ul-Haq . 2022. Efficacy of subsurface and surface drip irrigation regarding water productivity and yield of maize. Pakistan Journal of Agriculture Sciences. 59(1): 125-134. Published 18 March 2022. ISSN: 2076-0906,0552-9034	0.748
24	Arshad, M., M. Awais, R. Bashir, S. R. Ahmad, M. Anwar-ul-Haq , H.H. Senousy, M. Iftikhar, M. U. Anjum, S. Ramzan, S. A. Alharbi, V. Bărek, M. Brestic, A. Noman. 2022. Assessment of wheat productivity responses and soil health dynamics under brackish ground water. Saudi Journal of Biological Sciences 29(2): 793-803. ISSN: 1319-562X.	4.219
25	Hina Ahmed Malik, Javaid Akhtar, M. Anwar-ul-Haq and Muhammad Maqsood. 2021. Fulvic acid mediate chromium (Cr) stress in marigold genotypes (<i>Tagetes patula</i> L.) through lowering the Cr uptake and improving physiological processes. Pak. J. Agri. Sci., 58(3): 871-879. ISSN: 2076-0906,0552-9034	0.618
26	Munaza Naseem, M. Anwar-ul-Haq , Xiukang Wang, Naila Farooq, Muhammad Awais, Hina Sattar, Hina Ahmed Malik, Adnan Mustafa, Jalil Ahmad, and Mohamed A. El-Esawi. 2021.	1.763

CURRICULUM VITAE DR. MUHAMMAD ANWAR-UL-HAQ

	Influence of Selenium on Growth, Physiology, and Antioxidant Responses in Maize Varies in a Dose-Dependent Manner. Journal of Food Quality. Volume 2021. 6642018. https://doi.org/10.1155/2021/6642018 . ISSN: 1745-4557,0146-9428	
27	Muhammad Ahmad, Ejaz Ahmad Waraich, Asif Tanveer and M. Anwar-ul-Haq . 2021. Foliar Applied Thiourea Improved Physiological Traits and Yield of Camelina and Canola under Normal and Heat Stress Conditions. Journal of Soil Science and Plant Nutrition. 21:1666–1678. Published online 19 April 2021. https://doi.org/10.1007/s42729-021-00470-8 . ISSN: 0718-9516	2.156
28	Irshad, M.A., M. Zia ur Rehman, M. Anwar-ul-Haq , M. Rizwan, R. Nawaz, M. Bilal Shakoor, L. Wijaya, M. Nasser, Alyemeni , P. Ahmad , S. Ali. 2021. Effect of green and chemically synthesized titanium dioxide nanoparticles on cadmium accumulation in wheat grains and potential dietary health risk: A field investigation. Journal of Hazardous Materials 415(2021)125585. DOI: 0.1016/j.jhazmat.2021.125585 PII: S0304-3894(21) 00548-3. ISSN 0304-3894.	9.035
29	Nawaz, H., M. Anwar-ul-Haq , J. Akhtar, M. Arfan. 2021. Cadmium, chromium, nickel and nitrate accumulation in Wheat (<i>Triticum aestivum</i> L.) using wastewater irrigation and health risks assessment: Ecotoxicology and Environmental Safety. 208: 111685 ISSN 0147-6513 . ISSN : 1090-2414	4.872
30	Shabbir, A., G. Abbas, S. A. Asad, H. Razzaq, M. Anwar-ul-Haq and M. Amjad. 2021. Effects of arsenite on physiological, biochemical and grain yield attributes of quinoa (<i>Chenopodium quinoa</i> Willd.): implications for phytoremediation and health risk assessment. International Journal of Phytoremediation. 23(9): 890–898. https://doi.org/10.1080/15226514.2020.1865266 . ISSN: 1549-7879,1522-6514.	2.528
31	Awais, M., M. Anwar-ul-Haq , M. Mubeen, J. Akhtar, and S. A. Wajid. 2020. Adaptation strategies for sunflower production under climate change for arid environment by using CROPGRO and APSIM-sunflower models. Pak. J. Agri. Sci., 57(6): 1529-1538. ISSN: 2076-0906,0552-9034.	0.618
32	Ishfaq, M., N. Akbar, S. A. Anjum, M. Anwar-ul-Haq . 2020. Growth, yield and water productivity of dry direct seeded rice and transplanted aromatic rice under different irrigation management regimes. Journal of Integrative Agriculture 19(11): 2–19. ISSN: 2095-3119	1.986
33	Nadeem, F., M. Azhar, M. Anwar-ul-Haq , M. Sabir, T. Samreen, A. Tufail, H. U. M. Awan and W. Juan 2020. Comparative Response of Two Rice (<i>Oryza sativa</i> L.) Cultivars to Applied Zinc and Manganese for Mitigation of Salt Stress. Journal of Soil Science and Plant Nutrition 20:2059–2072. ISSN: 0718-9516.	2.006
34	Saadi S. T. A., M., Arshad, M. U., Qammar and M. Anwar ul Haq . 2020. Designing an efficient wetland by decision support system using experimental and modeling approach. Pak. J. Agri., Sci: 57(3): 837-847. DOI: 10.21162/PAKJAS/20.9571. ISSN (Print) 0552-9034, ISSN (Online) 2076-0906	0.618
35	Yousaf, M.S. I. Ahmad, M. Anwar-ul-Haq , M.T. Siddiqui, T. Khaliq and G. P. Berlyn. 2020. Morpho-physiological response and reclamation potential of two agroforestry tree species (<i>Syzygium cumini</i> and <i>vachellia nilotica</i>) against salinity. Pak. J. Agri., Sci: 57(5), 1393-1401. DOI: 10.21162/PAKJAS/20.9571. ISSN (Print) 0552-9034, ISSN (Online) 2076-0906.	0.618
36	Afzal, M.J., M. I. Khan, S. A. Cheema, S. Hussain, M. Anwar-ul-Haq , M. H. Ali, M. Naveed. 2020. Combined application of <i>Bacillus</i> sp. MN-54 and phosphorus improved growth and reduced lead uptake by maize in the lead-contaminated soil. Environmental Science and Pollution Research. 27:44528–44539. https://doi.org/10.1007/s11356-020-10372-4 . ISSN: 0718-9516.	3.306
37	Azhar, S., M. Anwar ul Haq J. Akhtar, E. A. Waraich. 2020. Nitrogen Nutrition Effects on Growth, Protein and Oil Quality in Soybean (<i>Glycine max</i> L.) Genotypes under Saline Conditions. Intl. J. of Agri. & Bio. 24 (6): 1715-1722, DOI: 10.17957/IJAB/15.1614. ISSN: 1560-8530,1814-9596	0.822
38	Parveen, M. Anwar-ul-Haq , T. Aziz, O. Aziz, and L. Maqsood. 2020. Potassium induces carbohydrates accumulation by enhancing morpho-physiological and biochemical attributes in soybean under salinity. Archieve of Agronomy and Soil Science. 67(7) : 946-959 DOI: 10.1080/03650340.2020.1769075. ISSN: 1476-3567.	0.890

CURRICULUM VITAE DR. MUHAMMAD ANWAR-UL-HAQ

39	Jan M, M. Anwar ul Haq , T. Haq, A. Ali, S.Hussain and M. Ibrahim. 2020. Protective effect of potassium application on NaCl induced stress in tomato (<i>Lycopersicon esculentum</i> L.) genotypes. Journal of Plant Nutrition. 43(13): 1988–1998. ISSN No.1532-4087.	0.753
40	Sohail, M. I., M. Zia ur Rehman, M. Rizwan, B., Yousaf, S. Ali, M. Anwar ul Haq , A. Anayat, A. A., Waris. 2020. Efficiency of various silicon rich amendments on growth and cadmium accumulation in field grown cereals and health risk assessment. Chemosphere: 244. https://doi.org/10.1016/j.chemosphere.2019.125481.125481 . ISSN: 0045-6535.	5.10
41	Usman Zulfikar, M.Maqqood, S. Hussain and M. Anwar-ul-Haq . 2020. Iron nutrition improves productivity, profitability and biofortification of bread wheat under conventional and conservation tillage systems. Journal of Soil Science and Plant Nutrition: 20:1298–1310. ISSN: 0718-9516.	2.006
42	Naseem, M., M. Anwar-ul-Haq , J. Akhtar and M. J. Jaskani. 2020. Effect of exogenous application of salicylic acid and sodium nitroprusside on maize under selenium stress. Pak. J. Agri. Sci., 57(1): 150-158. ISSN: 2076-0906,0552-9034.	0.618
43	Abbasi, G.H., A. Hussain, M. Ali, M. Jamil, M. Anwar-ul-Haq , Z. Malik, S. Ali and B. Javaid. 2020. Role of Silicon in morpho-physiological, ionic and biochemical acclimation of Mungbean challenged with salt Stress. Pak. J. Agri. Sci., 57(2):457-464 . ISSN: 2076-0906,0552-9034.	0.618
44	Shabir, M.A., H.Z. Khan, M.F. Saleem and M. Anwar-ul-Haq , 2019. Sesbania green manuring improved soil health and productivity of autumn maize under varying nitrogen rates. Intl. J. Agric. Biol., 22 (5): 1043–104.	0.802
45	Jan M., M. Anwar-ul-Haq , A. N. Shah, M. Yousaf, J. Iqbal, X. Li, D. Wang and S. Fahad. 2019. Modulation in growth, gas exchange and antioxidant activities of salt stressed rice (<i>Oryza sativa</i> L.) genotypes by zinc fertilization, Arabian Journal of Geosciences 12:775. ISSN : 1866-7538,1866-7511	1.141
46	Azhar, M., M. Zia ur Rehman, S.Ali, M.F. Qayyum, A. Naeem, M.A. Ayub, M. Anwar ul Haq , A. Iqbal, M. Rizwan. 2019. Comparative effectiveness of different biochars and conventional organic materials on growth, photosynthesis and cadmium accumulation in cereals, Chemosphere. 227: 72-81	4.42
47	Nawaz, H. J. Akhtar, M. Anwar-ul-Haq , M. Arfan, M. Awais, M. Nadeem, A. Ullah. 2019. Wastewater induced manganese toxicity affects growth and bioavailability in Spinach (<i>Spinacia oleracea</i>). Intl., J. Agri. & Biology. 21 (1): 135–139.	0.822
48	Naz, T., J. Akhtar, M. M. Iqbal, M. Anwar-ul-Haq , G. Murtaza, N.K.Niazi, A. Rehman, O. Farooq, M. Ali and B. Dell. 2019. Assessment of Gas Exchange Attributes Chlorophyll Contents, Ionic Composition and Antioxidant Enzymes of Sensitive and Tolerant Bread Wheat Genotypes in Boron Toxic, Saline and Boron Toxic-Saline Soils. Intl. J. Agric and Bio. 21(6): 1271-1278.	0.822
49	Zafar, Z., J. Akhtar, M. Amjad, M. Anwar-ul-Haq , and Z.A. Saqib. 2019. Trace metals accumulation and antioxidants profiling in two contrasting maize genotypes against sewage and textile wastewater treatment. CLEAN- Soil Air Water. 10.1002/clen.201800063. 47(7): 1800063	1.603
50	Javaid, T., M.A. Farooq, J. Akhtar, Z.A. Saqib, M. Anwar-ul-Haq . 2019. Silicon nutrition improves growth of salt-stressed wheat by modulating flows and partitioning of Na ⁺ , Cl ⁻ and mineral ions, Plant Physiology and Biochemistry 141: 291–299.	2.718
51	Sattar, H., M. Anwar-ul-Haq , H.R.Ahmad and M. J. Jaskani. 2019. Immobilization of chromium by poultry manure and gypsum in soil and reducing its uptake by spinach grown with textile effluent irrigation. Pak. J. Agri. Sci.,56(4): 791-798. ISSN: 2076-0906,0552-9034.	0.690
52	Naz, T., J. Akhtar, M. Anwar-ul-Haq , M. Saqib, M. M. Iqbal and M. Shahid. 2018. Interaction of salinity and boron in wheat affects physiological attributes, growth and activity of antioxidant enzymes. Pak. J. Agri. Sci., 55(2): 339-347. ISSN: 2076-0906,0552-9034.	0.690
53	Meunier, J.D., D. Barboni, M. Anwar-ul-Haq , C.L.P. Chaurand, V.Vidal, O. Grauby, R. Huc, I. Laffont-Schwob, J. Rabier and C. Keller. 2017. Effect of Phytoliths for mitigating water stress in durum wheat. J. New Phytologist. 215(1): 229-239 DOI:10.1111/nph.14554.	7.672
54	Javaid, T., Javaid Akhtar, M. Anwar-ul-Haq and R. Ahmad. 2017. Silicon improved growth rate by altering biochemical traits of wheat under saline conditions. Pak. J. of Botany 49(3):823-835.	0.822
55	Awais M., M. Arshad, S. H. H. Shah and M. Anwar-ul-Haq . 2017. Evaluating groundwater quality for irrigated agriculture: spatio-temporal investigations using GIS and geo-statistics in Punjab, Pakistan. Arab J. Geosci 10 (23):510.	1.224

CURRICULUM VITAE DR. MUHAMMAD ANWAR-UL-HAQ

56	Ain. Q., J. Akhtar, M. Amjad, M. Anwar-ul-Haq and Z. A. Saqib 2016. Effect of Enhanced Nickel Levels on Wheat Plant Growth and Physioloenvigy under Salt Stress. Communications in Soil Science and Plant Analysis. 47(22): 2538–2546.	0.529
57	Parveen, M. Anwar-ul-Haq , J. Akhtar and M.A.Basra. 2016. Interactive effect of salinity and potassium on growth, biochemical parameters, protein and oil quality of soybean genotypes. Pak. J. Agri. Sci. 53(1):69-78. ISSN: 2076-0906,0552-9034.	1.054
58	Jan, M., M. Anwar-ul-Haq , T. Haq, A. Ali and E. A. Wariach. .2016. Evaluation of Soil and Foliar Applied Zinc Sources on Rice (<i>Oryza sativa L</i>) Genotypes in Saline Environments. International journal of Agriculture & Biology. 18(3): 643-648.	0.902
59	Abbasi, G.H. M. Ijaz, J. Akhtar, M. Anwar-ul-Haq , M. Jamil, S. Ali, R. Ahmad and H. N.Khan. 2016. Profiling of Anti-Oxidative Enzymes and Lipid Peroxidation in Leaves of Salt Tolerant and Salt Sensitive Maize Hybrids under NaCl and Cd Stress. Sains Malaysiana 45(2): 177–184. ISSN 0126-6039.,	0.44
60	Abbasi, G.H., M. Jamil, M. Anwar-ul-Haq , S Ali, R. Ahmad, Z. Malik, Parveen. 2016. Salt stress manifestation on plants, mechanism of salt tolerance and potassium role in alleviating it: a review. Zemdirbyste-Agriculture, 103 (2): 229–238.	0.42
61	Shehzad, M.A., M. Maqsood, S.A. Wajid and M. Anwar-ul-Haq . 2016. Dry Matter Partitioning and Mineral Constitution Response of Sunflower (<i>Helianthus annuus</i>) to Integrated Nitrogen and Boron Nutrition in Calcareous Soils. Intl., J., Agri. & Bio. 18(2): 257-265	0.78
62	Hussain, S., M. Maqsood, H. Z. Khan, M. Anwar-ul-Haq . 2016. Mitigation of drought stress in maize hybrid through different Nutrient Management Strategies. 160(6) of SYLWAN journal (ISSN: 0039-7660).	0.426
63	Amjad, M., J. Akhtar, M. Anwar-ul-Haq , M. A. Riaz, Z. A. Saqib, B. Murtaza and M. A. Naeem. 2016. Effectiveness of Potassium in Mitigating the Salt- Induced Oxidative Stress in Contrasting Tomato Genotypes. Journal of Plant Nutrition. 39(13): 1926-1935.	0.510
64	Jan, M., M. Anwar-ul-Haq , Javaid Akhtar and Ejaz Ahmad Warriach. 2015. Genotypic variation to zinc response to salt stressed rice (<i>oryza sativa L.</i>) plants in hydroponic. Pak. J. Agri. Sci. 52(1): 135-144. ISSN: 2076-0906,0552-9034.	1.054
65	Aftab,M., M. Anwar-ul-Haq , J. Akhtar, E.A.Waraich'2015. Salinity and boron tolerance in Cotton (<i>Gossypium hirsutum L.</i>) varieties: a short term hydroponic study. Intl. J. Agri. and Bio. 17 (4): 797-802	0.94
66	Abbasi G.H., J. Akhtar, M. Anwar-ul-Haq , W. Malik, S.Ali, Zhong-Hua Chen, Guoping Zhang. 2015. Morpho-physiological and micrographic characterization of maize hybrids under NaCl and Cd stress. Plant Growth Regul. 75(1): 115-122. DOI 10.1007/s10725-014-9936-6. ISSN 0167-6903.	1.625
67	Abbasi G.H, J. Akhtar, R. Ahmad, M. Jamil, M. Anwar-ul-Haq , S. Ali and M. Ijaz. 2015. Potassium application mitigates salt stress differentially at different growth stages in tolerant and sensitive maize hybrids. Plant Growth Regul. 76(1): 111-125, DOI 10.1007/s10725-015-0050-1. ISSN 0167-6903.	1.625
68	Abbas, G., M. Saqib, J. Akhtar and M. Anwar-ul-Haq .2015. Interactive effects of salinity and iron deficiency on different rice genotypes. J. Plant Nutr. Soil Sci. 178:306-311, 10.1002/jpln.201400358.	1.549
69	Anwar ul Haq, M. , J. Akhtar, T. Hussain, M. Saqib and A. Hussain. 2014. Integrated use of farm manure and mineral fertilizers to maintain soil quality for better cotton (<i>Gossypium hirsutum L.</i>). Pak. J. Agri. Sci. 51(2):423-430. ISSN: 2076-0906,0552-9034.	1.24
70	Amjad, M., J.Akhtar, M. Anwar-ul-Haq , A.Yang, S. S. Akhtar, Sven-Erik Jacobsen. 2014. Integrating role of ethylene and ABA in tomato plants adaptation to salt stress. Scientia Horticulturae 172:109–116. ISSN: 0304-4238.	1.54
71	Amjad, M., J. Akhtar, M. Anwar-ul-Haq , M.A. Riaz and S.E. Jacobsen. 2014. Understanding salt tolerance mechanisms in wheat genotypes by exploring antioxidant enzymes. Pak. J. Agri. Sci.51 (4), 969-976. ISSN: 2076-0906,0552-9034.	1.24
72	Abbasi G.H, Javaid Akhtar, M. Anwar-ul-Haq , Shafaqat Ali, Zhong-Hua Chen and Waqas Malik. 2014. Exogenous potassium differentially mitigates salt stress in tolerant and sensitive maize hybrids. Pak. J. of Botony.46 (1): 135-146.	0.872

CURRICULUM VITAE DR. MUHAMMAD ANWAR-UL-HAQ

73	Amjad, M. J. Akhtar, M. Anwar-ul-Haq and R. Ahmad. 2014. Characterization comparative performance of fifteen tomato (<i>Lycopersicon esculentum</i> L) genotypes to NaCl stress. J. Agr. Sci. Tech. (JAST-IRAN) 16: 851-862. ISSN: 1680-7073	0.685
74	Amjad, M. J. Akhtar, M. Anwar-ul-Haq , S. Imran, Sven-Erik Jacobsen. 2014. Soil and foliar application of potassium enhances fruit yield and quality of tomato under salinity. Turk J Biol. 38: 208-218. DOI: 10.3906/biy-1305-54 ISSN: 1300-0152.	0.914
75	Anwar ul Haq , M. S. Akram, J. Akhtar, M. Saqib, Z. A. Saqib, G.H. Abbasi and M. Jan 2013. Morpho-physiological characterization of Sunflower genotypes (<i>Helianthus annuus</i> L.) under saline condition. Pak. J. of Agri. Sci. 50(1):49-54. ISSN:0552-9034	1.24
76	Yousra, M., J. Akhtar, Z.A. Saqib, M. Saqib and M. Anwar-ul-Haq . 2013. Effect of potassium application on ammonium nutrition in maize (<i>Zea mays</i> L.) under salt stress. Pak. J. of Agri. Sci. 50(1):43-48, ISSN: 2076-0906,0552-9034.	1.24
77	Abbas, G., M. Saqib, Q. Rafique, M. A. Rahman. J. Akhtar, M. Anwar-ul-Haq and M. Nasim. 2013. Effect of salinity on grain yield and grain quality of wheat (<i>Triticum aestivum</i> L.). Pak. J. of Agri. Sci. 50(2):185-189. ISSN: 2076-0906,0552-9034.	1.24
78	Shehzad, M.A., M. Maqsood, M. Anwar-ul-Haq and A. Niaz. 2012. Efficacy of various J. herbicides against weeds in wheat (<i>Triticum aestivum</i> L.) African J. of Biotechnology. 11(4): 791-799 ISSN 1684-5315.	0.573
79	Saqib, Z.A., J. Akhtar, M. Anwar-ul-Haq and I. Ahmad. 2012. Rationality of using various physiological and yield related traits in determining salt tolerance in wheat. African J. of Biotechnology. 11(5):3558-3568 ISSN 1684-5315.	0.573
80	Saqib, Z.A., J. Akhtar, M. Anwar-ul-Haq and I. Ahmad. 2012. Salt induced changes in leaf phenology of wheat plants are regulated by accumulation and distribution pattern of Na ion. Pak. J. Agric. Sci 49(2): 141-148. ISSN: 2076-0906,0552-9034.	1.24
81	Saqib M.R., M. Maqsood, S. A. Wajid and M. Anwar-ul-Haq . 2012. Effect of integrated plant nutrition and irrigation scheduling on yield and yield components of maize (<i>Zea mays</i> L.). Pak. J. Agric. Sci 49(3): 267-273. ISSN: 2076-0906,0552-9034.	1.24
82	Afzal, I., S.M.A. Basra, N. Ahmad, M.A. Cheema, M. Anwar-ul-Haq , M.H. Kazmi and S. Irfan. 2011. Enhancement of Antioxidant Defense System Induced by Hormonal Priming in Wheat. Cereal Research Communications 39(3): 334-342 ISSN: 0133-3720	1.19
83	Sarwar, N., M. Maqsood, S. A. Wajid and M. Anwar-ul-Haq . 2011. Impact of Nursery seeding density, Nitrogen and Seedling age on yield and yield attributes of fine rice. Chilean J. of Agri. Res. 71(3) : 343-349 ISSN:0718-5839	0.553
84	Hussain, S., M. F. Saleem, M.Y. Ashraf, M.A. Cheema and M. Anwar-ul-Haq . 2010. Absciscic acid, a stress hormone helps in improving water relations and yield of sunflower (<i>Helianthus annuus</i> L.) hybrids under drought. Pak. J. Bot. 42(3):2177-2189. ISSN: 0556-3321	0.947
85	Akhtar, J., Z. A. Saqib, M. Sarfraz, I. Saleem and M. Anwar-ul-Haq . 2010. Evaluating salt tolerant cotton genotypes at different levels of NaCl stress in solution and soil culture. Pak. J. Bot. 42(4) : 2857-2866 , ISSN: 0556-3321	0.947
86	Mukhtar, S., H. N. Bhatti ¹ , M. Khalid, M. Anwar-ul-Haq and S.M Shahzad. 2010. Potential of sunflower (<i>helianthus annuus</i> L.) for phytoremediation of nickel (Ni) and lead (Pb) contaminated water Pak. J. Bot. 42(6):4017-4026. ISSN: 0556-3321	0.947
87	Nasim, M., R. H. Qureshi, T. Aziz, M. Saqib, S. Nawaz, J. Akhtar, M. Anwar-ul-Haq and S.T. Sahi 2009. Different <i>Eucalyptus</i> Species Show Different Mechanisms of Tolerance to Salinity and Salinity X Hypoxia. Journal of Plant Nutrition 32: 1427-1439. ISSN 0190-4167	0.868
88	Akhtar, J. Z.A. Saqib, R.H. Qurshi, M. Anwar-ul-Haq \, M.S. Iqbal and N.E. Marcar. 2008. The effect of spacing on the growth of <i>Eucalyptus camaludensis</i> Dench on salt affected soil of Punjab, Pakistan. Canadian Journal of Forest Research 38(9): 2434-2444, ISSN 0045-5067	1.685
89	Hussain, T., T. Javaid, J.F. Parr., G. Jilani and M. Anwar-ul-Haq . 1999. Rice and wheat production in Pakistan with Effective Microorganisms. American Journal of Alternative Agriculture (now Renewable Agriculture & Food Systems) 14(1): 30-36. ISSN 1742-1705.	1.094

(c) List of Books/Proceedings/Monographs/Manuals/Book Chapters

BOOK CHAPTERS AUTHORED

1. Ishaq, M., M. Mubeen, S. Hussain, H. U. Farid, A. El-Sabagh, W. Nasim, M. Ali, N. Masood, S. Ahmad, H. M. R. Javed, M. Amjad, B. Murtaza, H. M. Hammad, M. Tariq, **M. Anwar-ul-Haq** and M. Habib-ur-Rehman. 2025. Nanotechnology in agriculture: current trends and future prospects under changing climate. In: Kumar, A. and Sabagh, AEL (eds.). Nanotechnology in agriculture-a potential tool for abiotic stress tolerance. Apple Academic Press. pp. 223-236. <https://www.appleacademicpress.com/nanotechnology-for-agriculture-a-potential-tool-for-abiotic-stress-tolerance/1245>
2. Muhammad Ameen, Javaid Akhtar, Muhammad Anwar-ul-Haq, Ghulam Hassan Abbasi, Muhammad Ali, Qasim Ali, Syeda Naqshe Zahra, Tayyaba Akhtar, and Iqra Ghafoor. 2024. Potassium in Plants: Possible Functions, Mechanisms and Proteomics Under Abiotic Environmental Stress. © The Author(s), under exclusive license to Springer Nature Switzerland AG 2024 T. Aftab (ed.), Metals and Metalloids in Plant Signaling, Signaling and Communication in Plants, https://doi.org/10.1007/978-3-031-59024-5_5. Published 03.07.2024.
3. Asad Jamil, M. Anwar-ul-Haq, Rubaz Ahmad, Ali Rizwan, M.Umair, M.zia-ur-Rehman. 2024. Potential application of carbon nanotubes for the removal of organic and inorganic pollutants from the wastewater. In Book: Water treatment in engineered carbon nanotubes: Micro and Nano Technologies. Page 307-329. Online available 19 January 2024. Publisher Elsevier. <https://doi.org/10.1016/8978-0-443-18524-3.00013-1>.
4. Muhammad Anwar-ul-Haq, Muhammad Tayyab Mehmood, Alisha, Saba Seed, Sharjeel Haider, Muhammad Awais, Muhammad Nadeem, Muhammad Mubeen & Irfan Iftikhar. 2023. Nutrient Management Under Changing Climate. In Climate Change Impacts on Agriculture pp 281–297. First Online: 15 June 2023. <https://link.springer.com/book/10.1007/978-3-031-26692-8>
5. Muhammad Ameen, Muhammad Anwar-Ul-Haq, Muhammad Irfan Sohail, Fatima Akmal, Ayesha Siddiqui. 2023. Mismanagement of Waste in Developing Countries. In: Waste Problems and Management in Developing Countries. Ed. 1st Edition, Academic Press, Pages42. eBook ISBN9781003283621
6. Muhammad Ameen, Javaid Akhtar, Muhammad Anwar-Ul-Haq, Ghulam Hassan Abbasi, Moazzam Jamil, Muhammad Ali, Tabinda Athar. 2023. Nutrient acquisition, transport, and metabolism within the plant cells. Sustainable Plant Nutrition ISBN: 978-0-443-18675-2 <https://doi.org/10.1016/B978-0-443-18675-2.00005-5>.
7. Muhammad Sami Ul Din, Muhammad Mubeen, Sajjad Hussain, Ashfaq Ahmad, Nazim Hussain, Muhammad Anjum Ali, Ayman El Sabagh, Mabrouk Elsabagh, Ghulam Mustafa Shah, Saeed Ahmad Qaisrani, Muhammad Tahir, Hafiz Muhammad Rashad Javeed, **M. Anwar-ul-Haq**, Musaddiq Ali, Wajid Nasim.2022. World Nations Priorities on Climate Change and Food Security. Building Climate Resilience in Agriculture pp 365-384. Springer, Cham. https://doi.org/10.1007/978-3-030-79408-8_22. Print ISBN 978-3-030-79407-1 Online ISBN 978-3-030-79408-8. First Online: 22 October 2021.
8. Husnain Zia, M.Ashar Ayub, A.A.Elbaroudy, M.Zia-ur-Rehman, H.Khalid., **M.Anwar-ul-Haq**, Wajid Umar and Zahoor Ahmad. 2021.Microbial associations in ecological reclamation and restoration of marginal lands. In book: Microbes in Land Use Change Management. Project: Sustainable Agriculture for Food Security. Publisher: Elsevier. DOI: 10.1016/B978-0-12-824448-7.00014-0. September 2021.
9. Maira Naveed, Hinnan Khalid, Muhammad Ashar Ayub, Muhammad Zia ur Rehman, Muhammad Rizwan, Amer Rasul, **M. Anwar ul Haq**. 2020. Biofortification of Cereals with Zinc and Iron: Recent Advances and Future Perspectives. In: Kumar S., Meena R.S., Jhariya M.K. (eds) Resources Use Efficiency in Agriculture. Springer, Singapore. https://doi.org/10.1007/978-981-15-6953-1_17. Print ISBN: 978-981-15-6952-4. Online ISBN: 978-981-15-6953-1. Online 19.09.2020
10. Muhammad Umair Riaz, Muhammad Ashar Ayub, Hinnan Khalid, **M. Anwar ul Haq**, Amer Rasul, Muhammad Zia ur Rehman, Shafaqat Ali. 2020. Fate of Micronutrients in Alkaline Soils. In: Kumar S., Meena R.S., Jhariya M.K. (eds) Resources Use Efficiency in Agriculture. Springer, Singapore. https://doi.org/10.1007/978-981-15-6953-1_16. Print ISBN: 978-981-15-6952-4. Online ISBN: 978-981-15-6953-1. Online 19.09.2020.
11. Ayub, M.A., M. Usman, T. Ejaz, M. Umair, **M. Anwar ul Haq**, M. Rizwan, S. Ali and M. Zia ur Rehman.2020. Restoration of degraded soil for sustainable agriculture. Springer Nature Springer Pte. Ltd. 2020. R.S. Meena (ed). Soil Health Restoration and Management. DOI 10.1007/978-981-13-8570-4_2

CURRICULUM VITAE DR. MUHAMMAD ANWAR-UL-HAQ

12. Ahmad, H.R., M. Z. Rehman, M. I. Sohail, **M. Anwar ul Haq**, H. Khalid , M.A. Ayub and G. Ishaq. 2018. Effects of rare earth oxide nanoparticles on plants. P. 239-275. In Parvaiz Ahmad et al. (eds.) Nanomaterials in plants, algae and microorganisms. 1st Ed. Elsevier, ISBN: 978-0-12-811487-2 London UK.
13. Naz. T., J. Akhtar, M. M. Iqbal, **M. Anwar ul Haq**, and M. Saqib. 2016. Boron Toxicity in Salt-Affected Soils and Effects on Plants. P. 259. Springer International Publishing Switzerland 2016. ISBN 978-3-319-34449-2 ISBN 978-3-319-34451-5 (eBook) DOI 10.1007/978-3-319-34451-5. Library of Congress Control Number: 2016947711.
14. Jan, M., **M. Anwar-ul-Haq**, J. Akhtar, E.A. Waraich. 2015. Zinc application to rice genotypes under saline conditions. E. Lichtfouse (ed.), Sustainable Agriculture Reviews 18: 253-272. Springer International Publishing Switzerland 2015 DOI 10.1007/978-3-319-21629-4-8

PROCEEDINGS/MANUALS/MONOGRAPHS:

- Proceeding: **07**
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PROCEEDINGS

1. Nawaz, H., **M. Anwar-ul-Haq**, Faisal Nadeem, Muhammad Awais. 2020. Sewage Water Irrigation Effect Metal Ions Accumulation in Spinach (*Spinacia oleracea*) and Effects on Growth. Intl. Conf. Climate Resilient smart soil management., March 5-7, 2020, Haripur, Pakistan
2. **Haq M.A.**, Javaid Akhtar, Muhammad Ameen, Irfan Iftikhar and Muhammad Saqib. 2019. Effect of nitrogenous fertilizer and salinity on growth and yield of soybean (*Glycine max* L.) in Pakistan 2nd International Salinity Conference (ISC-28-30 April 2019) Organized by Soil Salinity Laboratory (SSL), Department of Soil Science, UCA&ES, The Islamia University of Bahawalpur, Pakistan P.30
3. **Anwar ul Haq**, M. J. Akhtar, M. Saqib and Z.A. Saqib. 2014. Prospects of Saline Agriculture in Pakistan. Intl. Conference on Creating Food Self Sufficiency in Thar Utilizing indigenous groundwater Resources. September 13-14, 2014, at PC Karachi. Pakistan
4. Zulfiqar Ahmad Saqib, Javaid Akhtar, Rashid Farooq, **M. Anwar-ul-Haq** and Ilyas Ahmad. 2011. Sustainable use of brackish water for better crop production in different textured soils. ICID 21st International Congress on Irrigation and Drainage. 15-23 October 2011, Tehran, Iran.
5. **Haq. M. A.**, J. Akhtar, A.Haq and Z.A.Saqib. 2009. The Ameliorative Effect of Saline or / Sodic Water on Maize (*Zea Mays* L.) Production, International Meeting on Soil Fertility Land Management and Agro-climatology. Turkey, 2008. P: 715-735.
6. **Haq. M.A.**, J. Akhtar, Z.Ahmad, S. Pervaiz, K. Mahmood and M.A.Riaz. 2006. Estimation of salinity tolerance in different wheat genotypes. Intl. conf. on Sustain. Crop prods. On salt affected land. SARC, UAF, Dec.4-6, 2006 pp. 74-77.
7. **Haq, M.A.**, Akhtar, J. Haq, T., Ibrahim, M., Khalid, M and Dasti, Z.A.2004. Use of brackish drainage water for rice production. Proc. 3rd Nat. Sem. on Drainage in Pakistan, pp.203-207.

ABSTRACTS

1. Syed Muhammad Mizfar Gohar, Muhammad Anwar-ul-Haq, Alisha, Muhammad Usama Mustafa, Aneela Riaz, Amber Nawaz, Rehman Ali. 2024. Evaluating Physiological and Biochemical Responses of Wheat (*Triticum astivum* L.) Against Water Stress by Using Organic Amendments. 20th International Congress of Soil Science "Soil Health A Key to Food Security" being organized by Soil Science Society of Pakistan at Pir Mehar Ali Shah Arid Agriculture University Rawalpindi, Pakistan on February 20-22, 2024.
2. Muhammad Usama Mustafa, Muhammad Anwar-ul-Haq, Alisha, Syed Muhammad Mizfar Gohar, Aneela Riaz, Rehman Ali. 2024. Evaluating Physiological and Biochemical Responses of Cotton (*Gossypium hirsutum* L.) Against Salinity Stress by Using Organic Amendments. 20th International Congress of Soil Science "Soil Health A Key to Food Security" being organized by Soil Science Society of Pakistan at Pir Mehar Ali Shah Arid Agriculture University Rawalpindi, Pakistan on February 20-22, 2024.
3. Rehman Ali, M, Anwar-ul-Haq, M. Saqib, M. Sajid Aqeel Ahmad, Usama Mustafa, Aneela Riaz and Alisha. 2024. Comparative evaluation of sorghum (*Sorghum bicolor* L) genotypes against NaCl stress. 20th International

CURRICULUM VITAE DR. MUHAMMAD ANWAR-UL-HAQ

- Congress of Soil Science "Soil Health A Key to Food Security" being organized by Soil Science Society of Pakistan at Pir Mehar Ali Shah Arid Agriculture University Rawalpindi, Pakistan on February 20-22, 2024.
4. Alisha, M. Anwar-ul-Haq, M. Usama Mustafa, Aneela Riaz, M. Usama Javed, Syed Muhammad Mizfar Gohar and Rehman Ali. 2024. Impact assessment of industrial effluent on food quality of Brassica oleracea species. 20th International Congress of Soil Science "Soil Health A Key to Food Security" being organized by Soil Science Society of Pakistan at Pir Mehar Ali Shah Arid Agriculture University Rawalpindi, Pakistan on February 20-22, 2024
 5. Muhammad Anwar-ul-Haq, Haq Nawaz, Muhammad Tayyab Mehmood, Rizwan Ullah, Muhammad Awais, Muhammad Nadeem, and Irfan Iftikhar. 2022. The Challenges of Climate Change: adaptation and mitigation. 1st International Conference on Climate Change November 28-29, 2022, at The Islamia University Bahawalpur.
 6. Inam Irshad and Muhammad Anwar ul Haq 2022. Effect of foliar applied Organic acids on maize (*Zea Mays L.*) growth under salt stress. 1st International Conference on Climate Change November 28-29, 2022, at The Islamia University Bahawalpur
 7. Rizwan Ullah, Muhammad Anwar ul Haq, Muhammad Zia ur Rehman, Irfan Iftikhar, Muhammad Awais, Muhammad Nadeem, Raza Ejaz, Muhammad Tayyab Mehmood, Tasawar Ali. 2022. Study the impact of Sodium chloride (NaCl) on growth of soybean (*Glycine max L.*). 1st International Conference on Climate Change November 28-29, 2022. at The Islamia University Bahawalpur
 8. Muhammad Anwar-ul-Haq, Javaid Akhtar, Irfan Iftikhar, Muhammad Ameen, Muhammad Awais and Muhammad Nadeem. 2022. Characterization of salt tolerance in soybean (*Glycine max L.*) with the integration of nitrogenous fertilization. 19th International Congress of Soil Science "Soil Health and Sustainable Development Goals" being organized by Soil Science Society of Pakistan at University of Agriculture, Faisalabad, Pakistan on March 09-11, 2022
 9. Muhammad Nadeem, Muhammad Anwar ul Haq, Irfan Iftikhar, Tasawar Ali, Muhammad Awais, Rizwan Ullah, Muhammad Tayyab Mehmood. 2022. Nutrients, osmotic and oxidative stress management in bread wheat (*Triticum aestivum L.*) by exogenously applied silicon fertilization under water deficit natural saline conditions. 19th International Congress of Soil Science "Soil Health and Sustainable Development Goals" being organized by Soil Science Society of Pakistan at University of Agriculture, Faisalabad, Pakistan on March 09-11, 2022
 10. Muhammad Usama Mustafa, Muhammad Anwar-ul-Haq, M. Irfan Iftikhar, Muhammad Tayyab Mehmood, Muhammad Awais, Taswar Ali and Muhammad Nadeem 2022. Effect of temperature variation during salinity stress on cotton (*Gossypium hirsutum L.*) Growth. 19th International Congress of Soil Science "Soil Health and Sustainable Development Goals" being organized by Soil Science Society of Pakistan at University of Agriculture, Faisalabad, Pakistan on March 09-11, 2022
 11. Rizwan Ullah, Muhammad Anwar ul Haq, Muhammad Zia ur Rehman, Irfan Iftikhar, Muhammad Awais, Muhammad Nadeem Raza Ejaz, Muhammad Tayyab Mehmood, Tasawar Ali. 2022. Impact assessment of salt toxicity on gas exchange, K^+/Na^+ homeostasis and antioxidant defense pathways of soybean (*glycine max l.*) Genotypes. 19th International Congress of Soil Science "Soil Health and Sustainable Development Goals" being organized by Soil Science Society of Pakistan at University of Agriculture, Faisalabad, Pakistan on March 09-11, 2022
 12. Irfan Iftikhar, Muhammad Anwar-ul-Haq, Muhammad Nadeem Muhammad Awais, Haq Nawaz, Tasawar Ali, Muhammad Tayyab Mehmood, Muhammad Ameen 2022. Effects of exogenous osmolytes supplementation on salinity-stressed soybean. 19th International Congress of Soil Science "Soil Health and Sustainable Development Goals" being organized by Soil Science Society of Pakistan at University of Agriculture, Faisalabad, Pakistan on March 09-11, 2022
 13. Muhammad Tayyab Mehmood, Muhammad Anwar-ul-Haq, Muhammad Awais, Irfan Iftikhar¹, Taswar Ali and Muhammad Nadeem 2022. Physiological response of different bread wheat (*Triticum aestivum L.*) cultivars under water deficit conditions. 19th International Congress of Soil Science "Soil Health and Sustainable Development Goals" being organized by Soil Science Society of Pakistan at University of Agriculture, Faisalabad, Pakistan on March 09-11, 2022
 14. Muhammad Anwar-ul-Haq, Hina Sattar Haq Nawaz, Javaid Akhtar, Hina Ahmad Malik and Munaza Naseem. 2022. Characterization of industrial effluent to immobilize the toxic potential of pollutants by using organic and inorganic amendments to grow vegetables in peri-urban of Faisalabad.

CURRICULUM VITAE DR. MUHAMMAD ANWAR-UL-HAQ

- International Symposium on Recent Innovations Water and Wastewater Management on May 19, 2022, at Government College University Faisalabad, Pakistan.
15. Muhammad Anwar-ul-Haq, Haq Nawaz, Muhammad Tayyab Mehmood, Rizwan Ullah, Muhammad Awais, Muhammad Nadeem, and Irfan Iftikhar. 2022. The Challenges of Climate Change: adaptation and mitigation. conference of “Impact of Climate Change on the Health of General Public Problems, Policy and Planning” on 21st to 22nd March 2022 at Institute of Public Health, Lahore
 16. **M. Anwar-ul-Haq**, Rizwan Ullah, Javaid Akhtar, Komal Naz, Naila Mushtaq, Inam Irshad, Tasawar Ali. 2020. Impact assessment of NaCl on growth and physiology of Soybean (*Glycine max* L.). 18th International Congress of Soil Science on “Wise Soil Management Ensures Better Environment and Livelihood” held at Sindh Agriculture University Tandojam, Hyderabad, Sindh, Pakistan on 11 - 13, February 2020- ICSS-2020
 17. **M. Anwar-ul-Haq**, Parveen, Javaid Akhtar, Sajida Azhar, Irfan Iftikhar and Shahzad M.A. Basra. 2020. Physiological, biochemical and ionic response of selected soybean (*Glycine max* L.) genotypes to potassium under NaCl stress. Biennial Scientific Colloquium Spring-March 20, 21, 2020. Department of Chemistry, Quaid-e-Azam University, Islamabad and Govt. College Jhelum
 18. Rabbia, T., T.Naz. J.Akhtar, M.M.Iqbal, **M. Anwar-ul-Haq**, M.Saqib, Z. A. Saqib, H. Nawaz. 2020. Effect of silicon application on the growth and yield of okra under saline conditions. 18th International Congress of Soil Science on “Wise Soil Management Ensures Better Environment and Livelihood” held at Sindh Agriculture University Tandojam, Hyderabad, Sindh, Pakistan on 11 - 13, February 2020- ICSS-2020
 19. Nazar, M.S., **M. Anwar-ul-Haq**, H.S. Younas, S. Hussain, M.Zeeshan. 2020. Effect of nitrogen and boron on cotton (*Gossypium hirsutum* L.) undersaline conditions. 18th International Congress of Soil Science on “Wise Soil Management Ensures Better Environment and Livelihood” held at Sindh Agriculture University Tandojam, Hyderabad, Sindh, Pakistan on 11 - 13, February 2020- ICSS-2020
 20. Tayyaba Naz, Javaid Akhtar, Muhammad Hamza Tariq, Muhammad Mazhar Iqbal, Muhammad Saqib, **M. Anwar-ul-Haq**, Zulfiqar Ahmad Saqib and Muhammad Ameen. Effect of supplementary potassium application on growth and yield of *Abelmoschus esculentus* under NaCl salinity. International Horticulture Conference | February 26-27-28, 2019 | Bahauddin Zakariya University, Multan, Pakistan.
 21. Tayyaba Naz, Javaid Akhtar, Muhammad Mazhar Iqbal, Muhammad Saqib, **M. Anwar-ul-Haq**, Zulfiqar Ahmad Saqib and Muhammad Hamza Tariq. Genetic Variability in *Triticum aestivum* for Proficient Zn and Fe Bioaccumulation in Saline Environment: a Hydroponics Study. International Horticulture Conference | February 26-27-28, 2019 | Bahauddin Zakariya University, Multan, Pakistan.
 22. Tayyaba Naz, Javaid Akhtar, Muhammad Mazhar Iqbal, Muhammad Saqib, **M. Anwar-ul-Haq**, Zulfiqar Ahmad Saqib, Muhammad Hamza Tariq and Muhammad Ameen. Screening Of Wheat Genotypes For Efficient Zinc And Iron Uptake Under Saline Conditions. 15th PAS forum conference on Innovations in Agriculture: Nourishing Pakistan in Changing Climate. 13 – 15th February 2019 at University of Agriculture Faisalabad - Pakistan.
 23. Tayyaba Naz, Javaid Akhtar, M. Mazhar Iqbal, **M. Anwar-ul-Haq**, Muhammad Saqib, Ghulam Murtaza, Muhammad Shahid, Nazia Perveen, Sehar Nawaz and Bernard Dell. Carbohydrate Partitioning, Growth and Ionic Composition of Two Australian Wheat Varieties in Response to Salinity and Boron toxicity. International Conference on Environmental Toxicology and Health. Comsats University, Islamabad, Vehari Campus. February 25-27, 2019.
 24. Muhammad Hamza Tariq, Tayyaba Naz, **M. Anwar -ul- Haq**, Javaid Akhtar, Muhammad Mazhar Iqbal, Muhammad Ameen, Shazia Iqbal, Zuhra Mazhar. Impact of Auxiliary Potassium to Diminish Deleterious Effects of Salt Stress in Okra. 15th PAS forum conference on Innovations in Agriculture: Nourishing Pakistan in Changing Climate. 13-15th February 2019 at University of Agriculture Faisalabad – Pakistan.
 25. **M. Anwar-ul-Haq**, Javaid Akhtar, Muhammad Ameen, Irfan Iftikhar and Muhammad Saqib. 2019. Effect of nitrogenous fertilizer and salinity on growth and yield of soybean (*glycine max* L.) in Pakistan 2nd International Salinity Conference (ISC-28-30 April, 2019) Organized by Soil Salinity Laboratory (SSL), Department of Soil Science, UCA&ES, The Islamia University of Bahawalpur, Pakistan P.30

CURRICULUM VITAE DR. MUHAMMAD ANWAR-UL-HAQ

26. Muhammad Nadeem, **M. Anwar-ul-Haq**, Muhammad Ameen, Irfan Iftikhar, Tasawar Ali , Haq Nawaz , Muhammad Awais. 2019. Impact of Integrated Use of Organic & Inorganic Fertilizers and Different Tillage Practices on Soil Quality and Wheat (*Triticum aestivum* L.) Production. 2nd International Salinity Conference (ISC-28-30 April, 2019) Organized by Soil Salinity Laboratory (SSL), Department of Soil Science, UCA&ES, The Islamia University of Bahawalpur, Pakistan P.40
27. **M. Anwar-ul-Haq**, Javaid Akhtar and Tasawar Ali. 2019. Effect of boron for sustainable wheat (*Triticum aestivum* L.) production under saline conditions. 2nd International Salinity Conference (ISC-28-30 April, 2019) Organized by Soil Salinity Laboratory (SSL), Department of Soil Science, UCA&ES, The Islamia University of Bahawalpur, Pakistan P. 56
28. Inam Irshad, **M. Anwar-ul-Haq**, Zulfiqar Ahmad Saqib, Muhammad Saqib and Javaid Akhtar. 2019. Interactive effect of phosphatic fertilizers and salt stress on maize growth. 2nd International Salinity Conference (ISC-28-30 April 2019) Organized by Soil Salinity Laboratory (SSL), Department of Soil Science, UCA&ES, The Islamia University of Bahawalpur, Pakistan P. 57.
29. Muhammad Aftab, Aneela Riaz, **M. Anwar-ul-Haq**, Abid Niaz, Aamer Satter , Hina Javed , Naseem Akhtar Sadia Sultana and Ehsan ul Haq. 2019. Screening of wheat (*Triticum aestivum* L.) various genotypes against salinity and boron stress. 2nd International Salinity Conference (ISC-28-30 April 2019) Organized by Soil Salinity Laboratory (SSL), Department of Soil Science, UCA&ES, The Islamia University of Bahawalpur, Pakistan P.74.
30. Alam T, **M. Anwar-ul-Haq**, T. Rehman, M. Naseem, M. Noman, S. Baber.2020. Genetic manipulation and organic soil amendment enhance the water stress tolerance in wheat. 6th International Conf. Sustainable agriculture in changing climate: Strategies and Management June 19-21, 2019
31. Naz, T., M. Luqman, J. Akhtar, M. M. Iqbal, **M. Anwar-ul-Haq** and M. Saqib. Alleviation of salt stress in spinach by foliar application of salicylic acid and moringa leaf extract.17th International Congress of Soil Science, Faisalabad-Pakistan. March 13-15, 2018.Soil Science Society of Pakistan.
32. Naz, T., N. Noreen, J. Akhtar, M.M. Iqbal, **M. Anwar-ul-Haq** and M. Saqib. Improving wheat yield and quality under saline conditions through the foliar application of iron.17th International Congress of Soil Science, Faisalabad-Pakistan. March 13-15, 2018.Soil Science Society of Pakistan.
33. Ejaz, A., J. Akhtar, **M. Anwar-ul-Haq**, T. Naz and M. Ameen. 2018. Combined Effect of Si and K on Salinity Tolerance of Maize (*Zea mays* L.). 17th Int. Cong. Soil Sci. Pak. March 13-15. 2018. Faisalabad, Pakistan
34. Munir, A., **M. Anwar-ul-Haq**, Z.A. Saqib and E.A. Warraich. 2018. Evaluation of zinc bioavailability in rice by exogenously applied K⁺ under saline conditions. Presented in 1st International Conference on “Soil and Crop Health in Changing Climate” November 28-29, 2018, Department of Soil and Environmental Sciences MNS – University of Agriculture, Multan.
35. Mehmood, H., G.H. Abbasi, A. Hussain, Z. Malik, M. Jamil, **M. Anwar-ul-Haq**, S. Ali, R. Iqbal, M. Ali and I. Haider. 2018. Potential of applied potassium in improving salt tolerance of maize (*Zea mays* L.) hybrids. Presented in 1st International Conference On “Soil and Crop Health in Changing Climate” November 28-29, 2018, Department of Soil and Environmental Sciences MNS – University of Agriculture, Multan.
36. Jan, M., M. Imran, **M. Anwar-ul-Haq**, T. Haq, A. Ali and M. I. Asif. 2018. Silicon application improves maize (*Zea mays* L.) performance through ionic homeostasis and ameliorating adverse effects of brackish water. Presented in 1st International Conference On “Soil and Crop Health in Changing Climate” November 28-29, 2018, Department of Soil and Environmental Sciences MNS – University of Agriculture, Multan.
37. Nazish, H., M. Jan, **M. Anwar-ul-Haq**, T. Haq, M. A. Qayyum and M. Ibrahim. 2018. Amelioration of salt stress through potassium application in Mung bean (*Vigna radiata* L.) genotypes. Presented in 1st International Conference On “Soil and Crop Health in Changing Climate” November 28-29, 2018, Department of Soil and Environmental Sciences MNS – University of Agriculture, Multan.
38. Hameed, S., M. Jan, **M. Anwar-ul-Haq**, T. Haq, M. Imran and S. Hussain. 2018. Amelioration of brackish water impact through potassium application in Sunflower (*Helianthus annuus* L.). Presented in 1st International Conference On “Soil and Crop Health in Changing Climate” November 28-29, 2018, Department of Soil and Environmental Sciences MNS – University of Agriculture, Multan.
39. Ahmad, I., M. Jan, **M. Anwar-ul-Haq**, T. Haq and S. Hussain. 2018. Alleviation of salt stress in maize (*Zea mays* L) genotypes through Zn application. Presented in 1st International Conference On “Soil and

CURRICULUM VITAE DR. MUHAMMAD ANWAR-UL-HAQ

- Crop Health in Changing Climate” November 28-29, 2018, Department of Soil and Environmental Sciences MNS – University of Agriculture, Multan.
40. Raza, S., M. Jan, **M. Anwar-ul-Haq**, T. Haq, M. Imran and A. Ali. 2018. Comparative effect of soil and foliar applied zinc for wheat (*Triticum aestivum* L.) growth. Presented in 1st International Conference On “Soil and Crop Health in Changing Climate” November 28-29, 2018, Department of Soil and Environmental Sciences MNS – University of Agriculture, Multan.
 41. Tayyaba Naz, J. Akhtar, **M. Anwar-ul-Haq**, M. Iqbal and B. Dell. 2017. Interaction of salinity and high Boron affect growth, biochemical attributes, and ionic composition of wheat (*Triticum aestivum* L.). In: Abstr. Intl. Conf. on Advances in Agri. Resource Management (ICAARM-2017). April 5-7, 2017, UAF, Pakistan. P.155.
 42. Sohail M.A., T.Naz, **M. Anwar-ul-Haq**, S.Iqbal, Z.Mazhar, S.Tahir, K.Saeed, M.Bilal and M.Ameen. 2017. Effect of exogenous proline application for improving maize growth under salt stress. In : Abstr. Intl. Conf. on Advances in Agri. Resource Management (ICAARM-2017). April 5-7, 2017, UAF, Pakistan. P.43.
 43. **M. Anwar-ul-Haq**, Javaid Akhtar, Muhammad Saqib and Zulfiqar Ahmad Saqib. 2016. Farmer’s participatory saline agriculture approaches for sustainable crop production. Presented in 1st International Salinity Conference held on 19-21 December 2016 at Islamia University Bahawalpur.
 44. Junaid Latif, Javaid Akhtar, **M. Anwar-ul-Haq**, Zulfiqar Ahmad Saqib, Kashif Zulfiqar Amir, Arshia Ejaz. 2016. Role of Organic matter on Interactive effect of Cadmium and salinity in leafy Vegetables. 1st International Salinity Conference held on 19-21 December 2016 at Islamia University Bahawalpur
 45. **M. Anwar-ul-Haq**, Affifa Arshi, Javaid Akhtar, M.Ameen, Irfan Iftikhar, Zulfiqar Ahmad Saqib, and Kashif Zulifqar Amir .2016. Effect of Ammonium Nitrate on the Soybean Genotypes under Salt Stress. 1st International Salinity Conference held on 19-21 December 2016 at Islamia University Bahawalpur,
 46. Ali Raza, Javaid Akhtar, **M. Anwar-ul-Haq**, Z.A. Saqib, Tayyaba Naz, Muhammad Ameen, Irfan Iftikhar and Muhammad Nadeem. 2016. Effect of humic acid, phosphoric acid and compost on nutrient availability and yield of wheat (*Triticum aestivum* L.). 1st International Salinity Conference held on 19-21 December 2016 at Islamia University Bahawalpur.
 47. **M. Anwar-ul-Haq**, Muhammad Sarosh Nazar, Javaid Akhtar, Irfan Iftikhar, Muhammad Nadeem, Muhammad Ameen, Fawad Sufyan and Tayyaba Naz. 2016. Effect of Nitrogen and Boron on Cotton (*Gossypium hirsutum* L.) Under Saline Conditions. 1st International Salinity Conference held on 19-21 December 2016 at Islamia University Bahawalpur
 48. **M. Anwar-ul-Haq**, Iqra Maqbool Javaid Akhtar, Muhammad Nadeem, Irfan Iftikhar Muhammad Ameen, Fawad Sufyan, Ashar Ayub and Z.A. Saqib. 2016. Effect of bio fertilizer (Rhizogold^{Plus}) and poultry manure on maize (*Zea mays* L.) growth under salt stress conditions. 1st International Salinity Conference held on 19-21 December 2016 at Islamia University Bahawalpur
 49. Rizwan Ghani, M. Saqib, Javaid Akhtar, **M. Anwar-ul-Haq**, Tasneem Khaliq and Madiha Nisar. 2016. Impact of nutrient management practices on sequestration of C and N during wheat season under a semi-arid environment. 1st International Salinity Conference held on 19-21 December 2016 at Islamia University Bahawalpur
 50. Saher Rubab, Javaid Akhtar, **M. Anwar-ul-Haq**, M. Farrakh Nawaz, Hina Fatima. 2016 Effect of silicon on soybean (*Glycine max* L.) growth under cadmium stress. 1st International Salinity Conference held on 19-21 December 2016 at Islamia University Bahawalpur
 51. Naz, T., J. Akhtar, **M. Anwar-ul-Haq**, M. Shahid, M. Saqib, M.M. Iqbal, M. Ameen, I. Ahmad, S. Iqbal and Z. Mazhar. Interactive effects of salinity and boron on physiological, antioxidative enzymes and yield responses of wheat (*Triticum aestivum* L.). 16th International Congress of Soil Science on “Healthy Soils for Food Security” from 15-17 March 2016 Organized by Soil Science Society of Pakistan.
 52. Kalsom, A., J. Akhtar, and **M. Anwar-ul-Haq**. 2016. Screening of different chickpea (*Cicer arietinum* L.) genotypes under salt stress. 2016. 16th International Congress of Soil Science on “Healthy Soils for Food Security” from 15-17 March 2016 Organized by Soil Science Society of Pakistan.
 53. Naz, T., J. Akhtar, **M. Anwar-ul-Haq**, M. Shahid, M.M. Iqbal, R. Bell and B. Dell. 2016. Carbohydrate partitioning, growth, and ionic composition of two Australian wheat varieties in response to salinity and

- boron toxicity. 16th International Congress of Soil Science on “Healthy Soils for Food Security” from 15-17 March 2016 Organized by Soil Science Society of Pakistan.
54. Ameen, M., J. Akhtar, M. Sabir, **M. Anwar-ul-Haq**, Z.A. Saqib, T. Naz, M.M. Iqbal and U. Riaz. 2016. Effect of humic and phosphoric acid for nutrient availability and soil health in saline-sodic soil. 2016. 16th International Congress of Soil Science on “Healthy Soils for Food Security” from 15-17 March 2016 Organized by Soil Science Society of Pakistan.
 55. Arshi, A., J. Akhtar, **M. Anwar-ul-Haq** and M. Arfan. 2016. Effect of NH_4NO_3 fertilizer on soybean (*Glycine max* L.) genotypes under salt stress. 16th International Congress of Soil Science on “Healthy Soils for Food Security” from 15-17 March, 2016 Organized by Soil Science Society of Pakistan.
 56. Sattar, H., **M. Anwar-ul-Haq**, Hamaad R.A., M. Nasem, M. Zia-ur- Rehman, J. Akhtar. 2015. Effect of inorganic amendments on maize (*Zea mays* L.) growth and Ni uptake from naturally contaminated soil. International Conference on Soil Sustainability for Food Security, November, 15-17, 2015 at ISES, UAF. P72.
 57. Naseem, N., **M. Anwar-ul-Haq**, M. Zia-ur-Rehman, H. R. Ahmad, J. Akhtar. 2015. Maize growth during remediation of ni contaminated salt affected soil with organic amendments. International Conference on Soil Sustainability for Food Security, November, 15-17, 2015 at ISES, UAF. P74.
 58. Zahoor, S., **M. Anwar-ul-Haq**, J. Akhtar, M. Rasool, M. Jan. 2015. Interactive effect of silicon and cadmium on wheat (*Triticum aestivum* L.) growth. International Conference on Soil Sustainability for Food Security, November, 15-17, 2015 at ISES, UAF. P76.
 59. Rasool, M., **M. Anwar-ul-Haq**, I. Ahmad, S. Zahoor, M. Jan. 2015. Potential of maize (*Zea mays* L.) cultivars against cadmium (Cd) and lead (Pb) toxicity. International Conference on Soil Sustainability for Food Security, November, 15-17, 2015 at ISES, UAF. P115.
 60. Fatima, H., **M. Anwar-ul-Haq**, I. Ahmad, M. Jan. 2015. Effect of saline water on growth and ionic composition of maize (*Zea mays* L.). International Conference on Soil Sustainability for Food Security, November, 15-17, 2015 at ISES, UAF. P115.
 61. Samreen, T and **M. Anwar-ul-Haq**. 2015. Application of Hoagland’s nutrient solution to reduce the effect of salinity on soybean (*Glycine max* L.). International Conference on Soil Sustainability for Food Security, November, 15-17, 2015 at ISES, UAF. P131.
 62. Abbasi, G.H., M. Jamil, **M. Anwar-ul-Haq**, H., Mahmood, Z. Malik, S. Ali. 2015. Response of maize (*Zea mays* L.) to potassium supply under salinity stress. International Conference on Soil Sustainability for Food Security, November, 15-17, 2015 at ISES, UAF. P136.
 63. Abbasi, G.H., I. Haq, M. Jamil, **M. Anwar-ul-Haq**, Z. Malik, S. Ali. 2015. Alleviation of salinity stress in tomato through zinc application. International Conference on Soil Sustainability for Food Security, November, 15-17, 2015 at ISES, UAF. P138.
 64. Aftab, M., **M. Anwar-ul-Haq**, J. Akhtar, A. Riaz. 2015. Exogenous application of potassium to mitigate the adverse effect of salinity and boron stress in cotton (*Gossypium hirsutum* L.). International Conference on Soil Sustainability for Food Security, November, 15-17, 2015 at ISES, UAF. P150.
 65. Naz, T., J. Akhtar, **M. Anwar-ul-Haq**, M. Iqbal, A. Niaz. 2015. Wheat growth response to different levels of salinity and boron. International Conference on Soil Sustainability for Food Security, November, 15-17, 2015 at ISES, UAF. P158.
 66. Abbasi, G.H., M. Jamil, J. Akhtar, **M. Anwar-ul-Haq**, M. Ahmad, A. Sohail and F-ul-Zaman. 2014. Characterization of wheat varieties against salinity stress 15th International Congress of Soil Science, Islamabad, Pakistan. 18-20 March, 2014.
 67. Amjad, M., J. Akhtar, **M. Anwar-ul-Haq** and R. Ahmad. 2014. Alleviation of oxidative stress in tomato by potassium application under salt stress. 15th International Congress of Soil Science, Islamabad, Pakistan. 18-20 March, 2014.
 68. Riaz A., **M. Anwar-ul-Haq**, J. Akhtar, M. Aftab and A. Niaz. 2014. Effect of calcium chloride ($\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$) salinity and boron toxicity on wheat (*Triticum aestivum* L.). 15th International Congress of Soil Science, Islamabad, Pakistan. 18-20 March, 2014.

69. Aftab, M., **M. Anwar-ul-Haq**, J. Akhtar and E.A. Warraich. 2014. Screening of cotton (*Gossypium hirsutum* L.) genotypes against salinity and boron stress. 15th International Congress of Soil Science, Islamabad, Pakistan. 18-20 March, 2014.
70. Azhar, M., **M. Anwar-ul-Haq**, J. Akhtar, M.Zia-ur-Rehman, S. Raza, H. R. Ahmad, M. Sabir and M. Shahbaz. 2014. Salt tolerance variations in wheat (*Triticum aestivum* L.) genotypes. 15th International Congress of Soil Science, Islamabad, Pakistan. 18-20 March, 2014. (Poster)
71. Samreen , T., **M. Anwar-ul-Haq**, M.Saqib and H.Munir. 2014. Response of soybean (*Glycine max* L.) to different concentrations of Hoagland's nutrient solution under salinity stress. 15th International Congress of Soil Science, Islamabad, Pakistan. 18-20 March, 2014. (Poster)
72. **M. Anwar-ul-Haq**, J. Akhtar, M. Saqib and Z.A. Saqib.2014.Prospects of Saline Agriculture in Pakistan. International Conference on Creating Food Self Sufficiency in Thar Utilizing indigenous groundwater Resources. September 13-14, 2014 at Pearl Continental Hotel, Karachi. Pakistan.
73. Barboni, D., **M. Anwar-ul-Haq**, J.D Meunier, C. Keler.2014. Si- accumulation in durum wheat and drought stress: impact on the plant morphology and its leaf phytolith content. 9th International Meeting on Phytolith Brussels, Belgium.10-13 September, 2014.
74. Ahmed S., M. Saqib, G. Abbas, **M. Anwar-ul-Haq**, M. Maqsood and T.Ali. 2012. Response of different rice (*Oryza sativa* L.) genotypes to boron and salinity. 14th Congress of Soil Science, 12-15 March, Expo Centre , Lahore
75. Sohail, M., M. Saqib, G. Abbas, **M. Anwar-ul-Haq** and S.M.A. Basra.2012.Effect of salinity and water stress on growth performance of Guava (*Psidium guajava* L.) 14th Congress of Soil Science, 12-15 March, Expo Centre , Lahore
76. Mumtaz, M.Z. G. Abbas, M. Saqib, M. Arfan, **M.A.Haq** and M.B. Gill.2012.Screening of different rice genotypes against salinity under field conditions. 14th Congress of Soil Science, 12-15 March, Expo Centre, Lahore
77. Saqib. Z.A., J.Akhtar, S.A.Hussain, **M. Anwar-ul-Haq** and M.A. Riaz. 2012. Management of plant nutrition can improve physiological determinants of salts tolerance and crop productivity in salt stressed environments. 14th Congress of Soil Science, 12-15 March, Expo Centre, Lahore
78. Ghafoor, M .A., **M. Anwar-ul-Haq**, M.U.Jamshaid, M.Ahmad and A.A.Sheikh. 2012. Evaluationg the behavior of different genotypes of wheat (*Triticum aestivum* L.) in saline –sodic soil. 14th Congress of Soil Science, 12-15 March, Expo Centre, Lahore.
79. Abbasi, G.H, J.Akhtar, Z.A. Saqib, M.Anwar-ul-Haq and N. Ahmad. 2012. Mitigating effect of salicylic acid on morphological determinants of maize (*Zea mays* L.) under salt stress. 14th Congress of Soil Science, 12-15 March, Expo Centre, Lahore
80. Akhtar, J., F. Naz, M.Saqib and **M. Anwar-ul-Haq**.2010.Assessment of biomass production and salt tolerance of multipurpose tree species.13th Cong. Of Soil Sci. Serana Faisalabad, Pakistan. 24-27 March, 2010. p.98
81. **M. Anwar-ul-Haq**, S.Sahrif, J.Akhtar and M.A. Basra. 2010. Response of maize (*Zea mays* L) to Zinc application under saline conditions in hydroponics. .13th Cong. Of Soil Sci. Serana Faisalabad, Pakistan. 24-27 March, 2010. p.104
82. Saqib, Z.A., J.Akhtar, S.A.Hussain, **M. Anwar-ul-Haq** and M.A.Riaz. 2010. Management of plant mineral nutrition can improve physiological determinants of salt tolerance and crop productivity in salt stressed environments. .13th Cong. of Soil Sci. Serana Faisalabad, Pakistan. 24-27 March, 2010. p.122
83. **M. Anwar-ul-Haq**, S. Akram and J.Akhtar. 2010. The genotypic behavior of sunflower (*helianthus annuus* l.) under saline soil conditions. in Intl. Conf. on Soil Classification and Reclamation of degraded lands in Arid Environment 17-19 May, 2010 at Abu Dhabi, UAE
84. Gill M.B., M. Saqib, G. Abbas, **M. Anwar-ul-Haq**, M.S.A. Ahmed, and M.Z. Mumtaz. 2012. Response of different maize (*Zea maize* L.) genotypes to salinity. 14th Congress of Soil Science, 12-15 March, Expo Centre , Lahore
85. M. F. U. Z. Akhtar, M. Aslam, M. Jamil,M.N. Aslam , **M.Anwar ul Haq**. 2009. Biological control of American bollworm, jassid and aphids by *crysopa* and *trichogramma* in cotton crop. International Conference on “Advance in Agriculture Prospects and Potentials of Natural Recourses in Food Security”11-13 August 2009.University of Azad Jammu & Kashmir, Faculty of Agriculture Rawalakot

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86. **M. Anwar-ul-Haq**, J.Akhtar, A. Haq and Z.A. Saqib. 2008. The ameliorative effect of saline or / sodic water on maize (*Zea mays L.*) production. Intl., meeting on soil fertility, land management and Agro-climatology Aydin , Turkey. 29 Oct., 2008-01Nov., 2008 p 93.
87. Akhtar, J., **M. Anwar-ul-Haq**, R. Farooq and Z.A. Saqib. 2008. Poor quality water and sustainability of wheat maize production on different textured soils. Intl., meeting on soil fertility, land management and Agro-climatology. 29 Oct., 2008-01Nov., 2008 p 94.
88. Akhtar, J., **M. Anwar-ul-Haq**, Z.A.Saqib and R.H. Qureshi.2006.Options for salt affected soils-field testing of crops and trees. Intl. conf. on Sustain. Crop prods. On salt affected land. SARC, UAF, Dec.4-6, 2006.
89. **M. Anwar-ul-Haq**, J.Akhtar, Z.Ahmad, S. Pervaiz, K.Mahmood and M.A.Riaz. 2006. Estimation of salinity tolerance in different wheat genotypes. Intl. conf. on Sustain. Crop prods. On salt affected land. SARC, UAF, Dec.4-6, 2006.
90. Pervaiz, S., K.Hussain, J. Akhtar, **M. Anwar-ul-Haq**, M. Saqib and M.A. Riaz.2006.Evaluation of sorghum (*Sorghum bioclor L*) genotypes for salinity tolerance. Intl. conf. on Sustain. Crop prods. On salt affected land. SARC, UAF, Dec.4-6, 2006.
91. Riaz. M.A., M. Ibrar, J. Akhtar, M.Saqib, **M. Anwar-ul-Haq** and S.Pervaiz. 2006. Evaluation and performance of sunflower genotypes under salt stress conditions. Intl. conf. on Sustain. Crop prods. On salt affected land. SARC, UAF, Dec.4-6, 2006.
92. Farooq, M.R., J.Akhtar, **M. Anwar-ul-Haq**, S.Pervaiz, M.A. Riaz, K.Mahmood and Z.A.Saqib. 2006. Ameliorative effect of brackish water on soil and wheat production.2006. Intl. conf. on Sustain. Crop prods. On salt affected land. SARC, UAF, Dec.4-6, 2006.
93. Saqib., Z.A., J.Akhtar, **M. Anwar-ul-Haq** and A.Dasti. 2006. Differential response of rice genotypes for salt tolerance in saline conditions.2006. Intl. conf. on Sustain. Crop prods. On salt affected land. SARC, UAF, Dec.4-6, 2006.
94. Haq, A., J.Akhtar, **M. Anwar-ul-Haq** and M.Ajmal. 2006. Use of brackish water for sustainable maize crop production.2006 Intl. conf. on Sustain. Crop prods. On salt affected land. SARC, UAF, Dec.4-6, 2006.
95. Hussain, T., **M. Anwar-ul-Haq** and T.I.Ali 1999. Recycling of water using EM_Technology, 3rd Segmite Intl. Symp. On water resources. 36p.
96. **M. Anwar-ul-Haq**, J. Akhtar, M. Ibrahim, W. M. Bhutta and Z.A.Dasti 2004. Use of brackish water for sustainable rice production NDP, Seminar, Peshawar

TECHNICAL REPORTS/MANUALS

1. Annual Progress report of Project entitled: Ecological adaptation of salt tolerant crop species to utilize saline water to sustain crop production in salt affected soils Funded by Higher Education Commission (HEC), Islamabad, Pakistan 2021-22.
2. Annual Progress report of Project entitled: Combined effect of nitrogenous fertilizer and salinity on growth and oil quality of soybean (*Glycine max L.*) Funded by Higher Education Commission (HEC), Islamabad, Pakistan 2018.
3. Annual Progress report of Project entitled: Combined effect of nitrogenous fertilizer and salinity on growth and oil quality of soybean (*Glycine max L.*) Funded by Higher Education Commission (HEC), Islamabad, Pakistan 2017.
4. Annual Progress report of Project entitled: Combined effect of nitrogenous fertilizer and salinity on growth and oil quality of soybean (*Glycine max L.*) Funded by Higher Education Commission (HEC), Islamabad, Pakistan 2016.
5. Use of brackish water for sustainable crop production. Funded by Higher Education Commission (HEC), Islamabad, Pakistan. Final Completion report. 2004-07.
6. Use of brackish water for sustainable crop production. Funded by Higher Education Commission (HEC), Islamabad, Pakistan 2005-06.
7. Use of brackish water for sustainable crop production. Funded by Higher Education Commission (HEC), Islamabad, Pakistan 2004-05.
8. National coordinated Project on management of Salt affected soils and brackish water in Pakistan. ALP Project Report 2004-2005.

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9. National coordinated Project on management of Salt affected soils and brackish water in Pakistan. ALP Project Report 2003-2006.
10. National coordinated Project on management of Salt affected soils and brackish water in Pakistan. ALP Project Report 2003-2004.
11. Use of brackish drainage effluent for Agriculture and Forestry. 2003.
12. Salinity and Drainage Survey of Shorkot site in Farmers Participatory Saline Agriculture Development Project 2001.

INVITED TALKS

1. Muhammad Anwar-ul-Haq. 2024. Ecological adaptation of salt-tolerant crop species by utilizing saline water to sustain crop productions. 2nd International Conference SOIL, PLANT AND ENVIRONMENTAL HEALTH UNDER CHANGING CLIMATE April 16-17, 2024, Department of Soil & Environmental Sciences, Department of Climate Change, MNS-University of Agriculture, Multan-Pakistan.
2. Muhammad Anwar-ul-Haq, Haq Nawaz, Muhammad Tayyab Mehmood, Rizwan Ullah, Muhammad Awais, Muhammad Nadeem, and Irfan Iftikhar. 2022. The Challenges of Climate Change: adaptation and mitigation. 1st International Conference on Climate Change November 28-29, 2022, at The Islamia University Bahawalpur
3. Invited talk entitled “The Challenges of Climate Change: Adaptation and Mitigation” in a Conference Impact of Climate Change on the health of General Public: Problem, Policy and Planning March 21-22, 2022, at Institute of Public Health Lahore
4. Invited talk entitled “Characterization of industrial effluent to immobilize the toxic potential of pollutants by using organic and inorganic amendments to grow vegetables in peri-urban of Faisalabad” in One Day International Symposium on Recent Innovations in Water and Wastewater Management May 19, 2022, Government College University Faisalabad, Pakistan
5. Guest speaker for seminar on water and soil testing one-day seminar on farmers training regarding Agriculture Inputs and Doorstep Testing Facilities at District Faisalabad. 2019
6. Invited talk in 2nd salinity conference held on 28-30 April 2019 at IUB Bahawalpur entitled: Effect of nitrogenous fertilizer and salinity on growth and yield of soybean (*Glycine max* L.) in Pakistan.
7. Invited Radio Talk (FM-93) at Radio Pakistan Faisalabad on BS/MS/PhD Environment admission and outcomes along with the benefits of moon soon rains dated 25.07.2019.
8. Invited Radio Talk (FM-93) at Radio Pakistan Faisalabad on SMOG and Health dated 18.11.2019.
9. A lecturer on “Avoid use of plastic” April 22, 2018, organized by EPA-Faisalabad.
10. Talk on “Save to Earth” June 05, 2018, at Nishat Textile Faisalabad organized by EPA-Faisalabad.
11. Radio Talk entitled “management of pollutants” June 05, 2018, World Environment Day, FM radio Faisalabad.
12. Invited to talk on Soil quality degradation major challenge for sustaining food security December 05, 2018, at College of Agriculture University of Sargodha.
13. How Salinity Affects Wheat Growth and Fertilizer Recommendations in Field? I presented paper at Movenpick Karachi August 10-12, 2016, sponsored by FAO-USDA,
14. Invited talk entitled “Climate Change adaptation” at Dynasty Faisalabad dated 21-12-2015.
15. I presented paper in International Conference on “Creating Food Self Sufficiency in Thar Utilizing Indigenous Groundwater Resources entitled PROSPECTS OF SALINE AGRICULTURE IN PAKISTAN organized by Dawood University of Engineering & Technology’s in September 13-14, 2014, at Hotel Pearl Continental, Karachi.
16. Presented poster entitled “the genotypic behavior of sunflower (*helianthus annuus* l.) Under saline soil conditions” in Intl. Conf. on Soil Classification and Reclamation of degraded lands in Arid Environment 17-19 May 2010 at Abu Dhabi, UAE.
17. Presented paper on the Ameliorative Effect of Saline or / Sodic Water on Maize (*Zea Mays* L.) Production, International Meeting on Soil Fertility Land Management and Agro-climatology. Turkey, 2008. P: 715-735.

CURRICULUM VITAE DR. MUHAMMAD ANWAR-UL-HAQ

RESEARCH PROJECTS:

- Total Projects Completed: 13
- On-going Projects: 05

ON-GOING PROJECT

1. **Principal Investigator** Economic utilization of salt affected soil with the integration of chemical and biological approaches to live within salinity for sustainable agro-ecosystem. worth Rs. 3.326 million by Pakistan Science Foundation, Islamabad, Pakistan Project No. Cons. 376. 2023.
2. **Co- Principal Investigator:** Zero-Valent iron and biochar mediated simultaneous alleviation of chromium accumulation in wheat grown in Cr-contaminated soils. NRPU -16362 HEC, Islamabad. Approved by HEC with amount of Rs. 3.58 million (04.03.2022). PI. Dr. M. Adrees.
3. **Co- Principal Investigator:** Development of enhanced efficiency di-ammonium phosphate through bio-activation, boron and Ltryptophan enrichment for improving yield and oil content of canola. Approved by HEC with amount of Rs. 9.24 million (14.04.2022). PI. Dr. Tayyaba Samreen.
4. **Team Member: PARB- PROJECT ID NO.- 20-350** entitled: Development of soybean in Pakistan to reduce the import bills. (Project Manager Dr. Zahir Ahmad CAS)
5. **Project Director** Lodging Facility at the campus 1000 female Hosts worth 886.847 million funded by Govt. of Punjab Pakistan Year 2024.

COMPLETED PROJECTS

1. **Principal Investigator** Ecological adaptation of salt tolerant crop species to utilize saline water to sustain crop production in salt affected soils. NRPU -13599/2020 HEC, Islamabad. Approved by HEC with amount of Rs. 17.124 million. PI. Dr. M. Anwar-ul-Haq
2. **Principal Investigator** Combined effect of nitrogenous fertilizer and salinity on growth and oil quality of soybean (*Glycine max* L.). Approved by HEC with amount of Rs. 4.3 million (2019 Completed). PI. Dr. M. Anwar-ul-Haq.
3. **Member/Co-ordinator:** Agro-ecological zones of Panjab Pakistan project funded by Ministry of Food and Agriculture (FAO) of United Nations (completed in 2019)
4. **Principal Investigator / Supervisor:** Muhammad Nadeem PhD student HEC indigenous scholarship ORIC No. 8713 dated 20.11.2019. Entitled “Nutrients and Oxidative Stress management in Bread Wheat (*Triticum aestivum* L.) by exogenously applied Silicon under Saline and Water stress environment”.
5. **Principal Investigator /Supervisor:** Hafsa Zafar PhD student HEC indigenous scholarship No. 518-139074-2AV5-077, dated 20.11.2019. Entitled “Role of Nitrification Inhibitors to Manage Nitrogen Transformations under Salt Stress Conditions.”
6. **Principal Investigator/Supervisor:** Evaluation of Efficient Release of NO₃-N from Neem Coated Granular Urea and DAP (2016). Rs. 1.55 million/Year. Funded by FFBL Ltd. Rawalpindi.
7. **Co-Principal Investigator** Agro-Physiological and biochemical characterization of *Camelina sativa* under water stress. HEC funded (2010-2016).
8. **Co-Principal Investigator:** Impact and Assessment of Inferior Quality Groundwater on Agricultural Productivity. Approved with collaboration with Irrigation Dept. amount Rs. 3.948 million (In progress from 2015).
9. **Principal Investigator/ Supervisor:** PhD student HEC indigenous scholarship, “Efficiency of Zinc Utilization in Rice (*Oryza sativa* L.) Genotype under Saline Conditions”. Dr. Muhammad Jan Laghari
10. **Principal Investigator:** PhD student HEC indigenous scholarship, “Alleviation of Salinity and Boron Stress by Potassium Application in Cotton (*Gossypium hirsutum* L.)” Dr. Muhammad Aftab.
11. **Co-Principal Investigator:** Use of Brackish water for sustainable crop production. Funded by HEC, Islamabad (2005-2008).
12. **Co-Principal Investigator:** National coordinated Project on saline agriculture for managing salt affected soils and brackish water in Pakistan (ALP- PARC, 2003-2006).
13. **Coordinator:** Conducted soil survey of Farmers Participatory Saline Agriculture Development project IAE (2001).

FELLOWSHIP OF SCIENTIFIC SOCIETIES:

Soil Science Society of Pakistan (SSSP)-UAF 30

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EDITOR/ REVIEWER OF IF JOURNAL

1. Journal of Phytoremediation,
2. Journal of Plant Nutrition
3. Journal of Agronomy and Crop Sciences
4. Pakistan Journal of Agricultural Sciences
5. Journal of Agriculture Research
6. Archive of Agronomy and Soil Science
7. Journal of Crop Sciences
8. Journal of Soil and Environment
9. Journal of Ecotoxicology and Environmental Safety
10. Journal of Environmental Management
11. Silicon
12. Journal of Soil Science and Plant Nutrition