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E-mail sajid.agronomy@pu.edu.pk
Date of Birth 23 August 1975
Nationality Pakistani
Marital Status Married (3 Children)



PROFILE:

Highly organized and dedicated, with positive attitude. Abide to handle multiple assignments under high pressure and consistently meet tight deadlines. Excellent written, oral, and interpersonal communication skills. Thrive on studying and working in challenging environment.

ACADEMIC QUALIFICATION:

2006-2011

PhD – Agronomy (magna cum laude). Leaf yield and polyphenols of artichoke (*Cynara cardunculus* L.) influenced by harvest frequency and herbicide stress. Justus-Liebig University, Giessen, **GERMANY**

http://geb.uni-giessen.de/geb/volltexte/2011/8215/pdf/AliSajid_2011_06_17.pdf

2000-2002

M.Sc. (Hons.) Agronomy (4.00/4.00 CGPA). Weed-crop competition in wheat (*Triticum aestivum* L.) as affected by nitrogen levels and herbicide doses. **Silver Medalist (First Position) in Department of Agronomy**, University of Agriculture, Faisalabad **PAKISTAN**

1997-2000

B.Sc. (Hons.) Agronomy (3.91/4.00 CGPA), Department of Agronomy, University of Agriculture, Faisalabad **PAKISTAN**

1991-1993

F. Sc/A-Level Pre-medical (51.84 %)

Board of Intermediate and Secondary Education, Faisalabad **PAKISTAN**

1989-1991

Matric /O-Level Science (74.00 %)

Board of Intermediate and Secondary Education, Faisalabad **PAKISTAN**

HONORS / DISTINCTIONS:

- **HEC** (Higher Education Commission) Government of Pakistan Scholarship for Ph D Studies awarded in 2005.
- **Silver medal (1st position)** in M. Sc (Hons) Agronomy awarded in 2002.
- **3rd position** in B. Sc (Hons) Agriculture (Agronomy) awarded in 2000.
- University (UAF) **merit scholarship** awarded 1997-2000.

PUBLICATIONS:

- Aamir Shehzad, A. Zahid, **S. Ali**, M. B. Chattha, A. Fatima, A. Raza, N. Shafqat and A. Ayub. **2024**. Evaluating Tillage Practices and Herbicide Applications for Improved Rice Yield and Weed Control. *Plant Bulletin*. 3 (2): 179-187. (DOI: 10.55627/pbulletin.003.02.01008) [**HJRS: Y**].
- Arooj Fatima, R. Mahmood, A. Fatima and **S. Ali**. **2024**. *Aloe vera* Extract Boosts Brinjal (*Solanum melongena*) Growth under Normal and Stress Conditions. *Pakistan Journal of Agricultural Sciences*. 61 (4): 989-995. (DOI:10.21162/PAKJAS/24.223) [**IF: 0.7; HJRS: W**].
- Muhammad Sajid Farooq, R. Mahmood, A. Hameed, **S. Ali**, F. Nadeem, T. H. Awan, A. Fatima and Z. Ahmad. **2024**. Optimizing Nitrogen Sources in Top Dressing for Wheat: Field Study on Growth, Yield, and Ammonia Volatilization. *Scientifica*. (DOI: 10.1155/2024/8882675) [**IF: 2.3; HJRS: W**].
- Muhammad Haris, **S. Ali**, M. Hassan, A. Zahid, M. T. Abbas, A. Fatima, B. Zulfiqar, Z. Ahmad, S. Maqsood and S. Z. Hasan. **2024**. Evaluating the Impact of *Moringa Oleifera* Leaf Extract on Drought Stress Mitigation to Enhance Growth and Yield in Mung Bean (*Vigna radiata*). *Journal of Agriculture and Veterinary Science*. 03(2) 2024. 255-267 [**HJRS: Y**].
- Nimra Khalid, M. H. Almas, S. Fatima, M. S. Ahsan, M. Raza, **S. Ali** and M. Shafiq. **2024**. Growth and Quality of *Zinnia elegans* L. in Response to Different Growth Stimulants. *Pakistan Journal of Scientific and Industrial Research Series B: Biological Sciences*. 67B (2): 130-140 [**HJRS: Y**].
- Sarah Shakeel, R. Mahmood, A. Fatima, F. Nadeem, **S. Ali**, N. Ali, M. S. Haider and Q. Ma. **2024**. Iron (Fe) and zinc (Zn) coated urea application enhances nitrogen (N) status and bulb yield of onion (*A. cepa*) through prolonged urea-N stay in alkaline calcareous soil. *Scientia Horticulturae*. (DOI: 10.1016/j.scienta.2024.113421) [**IF: 3.9; HJRS: W**].
- Sarah Shakeel, R. Mahmood, A. Fatima, F. Nadeem, **S. Ali** and M. S. Haider. **2024**. Vegetable Plant Canopy Inhibits Soil Urease Activity and Reduces NH Losses Under p-Phenylenediamine (PPD)-Coated Urea Application. *Journal of Soil Science and Plant Nutrition*. (DOI: 10.1007/s42729-024-01624-0) [**IF: 3.4; HJRS: W**].

- Sadia Anwar, A. Fatima, T. A. Mughal, S. Ali and A. Zahid. **2024**. Ethnobiological study of Fortmonru and Taunsa, Punjab, Pakistan. 2024. Journal of Tianjin University Science and Technology. 57 (05): (DOI: 10.5281/zenodo.11146465) [**HJRS: X**].
- Iqra Shakeel. M. Khurshid, M. T. Manzoor, S. Ali, A. Akhter, W. Anwar, Z. Mushtaq, M. Faiq and M. T. Abbas. **2024**. Biochar improves tomatoes growth challenged with khokhran virus infection. Biological and Clinical Sciences Research Journal. (DOI: 10.54112/bcsrj.v2024i1.810) [**HJRS: Y**].
- Sajid Ali***, A. Fatima, H. Borhani, S. Dimassi, S. Afzaal, H. A. A. Khan, M. A. Iqbal, A. Zahid, F. Yan, and B. Honermeier. **2023**. Effects of post-emergence weedicides on yield, polyphenolic acids, flavonoids and antioxidant potential of artichoke leaves. Pakistan Journal of Agricultural Sciences. 60 (4): 507-516. (DOI:10.21162/PAKJAS/23.99) [**IF: 0.7; HJRS: X**].
- Muhammad Zeshan Haider, A. Sami, M. Shafiq, W. Anwar, **S. Ali**, Q. Ali, S. Muhammad, I. Manzoor, M. A. Shahid, D. Ali and S. Alarifi. **2023**. Genome-wide identification and in-silico expression analysis of carotenoid cleavage oxygenases gene family in *Oryza sativa* (rice) in response to abiotic stress. Frontiers in Plant Science. (DOI: 10.3389/fpls.2023.1269995) [**IF: 4.1; HJRS: W**].
- Adnan Zahid, **S. Ali**, W. Anwar, A. Fatima, M. B. Chattha, A. Raza, K. Ali and M. Siddique. **2023**. Assessing the air pollution tolerance index (APTI) of trees in residential and roadside sites of Lahore, Pakistan. SN Applied Sciences. 5:294 (DOI:10.1007/s42452-023-05470-0) [**IF: 2.3; HJRS: X**].
- Sidra Dr, M. M. Zaman, Z. Farooq, A. Hafeez, M. W. Sajid, M. R. Tariq, S. W. Ali, S. Ali, M. Shafiq, M. Iftikhar, W. Safdar, U. Ali, M. Kanwal, Z. Umer, Z. Basharat. **2023**. Supplementation of PUFA extracted from Microalgae for the development of Chicken Patties. PeerJ. (DOI: DOI 10.7717/peerj.15355) [**IF: 2.3; HJRS: W**].
- Muhammad Tayyab, A. Wakeel, M. U. Mubarak, A. Artyszak, **S. Ali**, E. E. Hakki, K. Mahmood, B. Song and M. Ishfaq. **2023**. Sugar Beet Cultivation in the Tropics and Subtropics: Challenges and Opportunities. Agronomy. 13: 1213 (DOI: 10.3390/agronomy13051213) [**IF: 3.3; HJRS: W**].
- Amna Hameed, N. Fatima, H. Iftikhar, A. Mehmood, M. R. Tariq, S. W. Ali, S. Ali, M. Shafiq, Z. Ahmad, U. Ali, M. Ghazanfar, M. Iftikhar, W. Safdar, A. Ahmad, Z. Basharat, Z. Umer and M. Khalid. **2023**. Effect of different drying and cooking treatments on phytochemicals and antioxidant activity in broccoli: an experimental in vitro study. Food Science and Technology. (DOI: 10.1590/fst.101622) [**IF: 2.6; HJRS: W**].
- Madiha Iftikhar, M. Munir, Wajeeha, M. R. Tariq, S. W. Ali, M. Shafiq, **S. Ali**, Z. Ahmad, A. Hameed, W. Safdar, A. Ahmad, Z. Umer, M. Khalid and M. Iqbal. **2023**. Development of cottonseed-based emulsions for encapsulation of vitamin A. Food Science and Technology. (DOI: 10.1590/fst.97222) [**IF: 2.6; HJRS: W**].

- Muhammad Tariq Manzoor, **S. Ali***, A. Fatima, M. R. Tariq, Q. Ali, M. Shafiq, M. A. Iqbal, A. Zahid and A. Hussain. **2022**. Analyzing local spinach plant diversity using the rpoC1 and matK DNA barcode technique. Pakistan Journal of Agricultural Sciences. 59 (6): 1029-1034. (DOI:10.21162/PAKJAS/22.48) [**IF: 0.6; HJRS: X**].
- Muhammad Ali, H. Maqsood, S. Maqsood, M. Ashfaq, **S. Ali** and M. Asrar. **2022**. Efficacy of different botanicals products against *Schizaphis graminum* (Rondani) on wheat in Punjab, Pakistan. International Journal of Biology and Biotechnology. 19 (4): 579-584 [**HEC Recognized: HJRS: Y**].
- Tasleem Akram, S. Mustafa, K. Ilyas, M. R. Tariq, S. W. Ali, **S. Ali**, M. Shafiq, M. Rao, W. Safdar, M. Iftikhar, A. Hameed, M. Manzoor, M. Akhtar, Z. Umer, and Z. Basharat. **2022**. Supplementation of banana peel powder for the development of functional broiler nuggets. PeerJ. (DOI 10.7717/peerj.14364) [**IF: 2.6; HJRS: W**].
- Muhammad Rizwan Tariq, F. Shaheen, S. Mustafa, **S. Ali**, A. Fatima, M. Shafiq, W. Safdar, M. N. Sheas, A. Hameed, and M. A. Nasir. **2022**. Phosphate solubilizing microorganisms isolated from medicinal plants improve growth of mint. PeerJ. (DOI 10.7717/peerj.13782) [**IF: 2.6; HJRS: W**].
- Muhammad Ijaz, A. Arshad, M. A. Awan, M. R. Tariq, S. W. Ali, **S. Ali**, M. Shafiq, S. Ahmed, M. N. Sheas, M. Iftikhar, S. Ahmed, M. A. Nasir, G. Kausar, A. U. I. Javed, and W. Safdar. **2022**. Exploring the potential of curry leaves on mercury- induced hepatorenal toxicity in an animal model. Food Science & Nutrition. 10 (2): 499-506 (DOI: 10.1002/fsn3.2683) [**IF: 3.7; HJRS: W**].
- Muhammad Asif, A. A. Shahid, N. Ahmad and **S. Ali**. **2021**. Ganodermin, as a biopesticide from *Ganoderma lucidum* to reduce incidence of early blight of tomato. Pakistan Journal of Agricultural Sciences. 58 (5): 1537-1545 (DOI: 10.21162/PAKJAS/21.912). [**IF: 0.9; HJRS: X**].
- Muhammad Ajmal Rana, R. Mahmood, and **S. Ali**. **2021**. Soil urease inhibition by various plant extracts. PLoS ONE. 16 (10) (DOI: <https://doi.org/10.1371/journal.pone.0258568>). [**IF: 3.8; HJRS: W**].
- Zahoor Ahmad, E. A. Waraich, R. M. S. Tariq, M. A. Iqbal, **S. Ali**, W. Soufan, M. M. Hassan, M. S. Islam, and A. E. Sabagh. **2021**. Foliar applied salicylic acid ameliorates water and salt stress by improving gas exchange and photosynthetic pigments in wheat. Pakistan Journal of Botany. 53 (5): 1553-1560 (DOI: [http://dx.doi.org/10.30848/PJB2021-5\(17\)](http://dx.doi.org/10.30848/PJB2021-5(17))) [**IF: 1.1; HJRS: X**].
- Muhammad Rizwan Afzal, M. T. Manzoor, **S. Ali***, A. Fatima, M. R. Tariq, M. Anees, S. Nawaz, M. Atif, N. Rafaqat and A. A. Shahid. **2021**. Gene expression evaluation of multigenic cotton (*Gossypium hirsutum*) against cotton leaf curl virus. International Journal of Agriculture and Biology. 26 (1): 169–176 (DOI: 10.17957/IJAB/15.1821) [**HEC Recognized: HJRS: Y**].

- Iqra Rehman, M. Riaz, **S. Ali**, M. S. Arif, S. Ali, and M. N. Alyemeni. **2021**. Evaluating the effects of cotton stick, corncob and rice straw biochar rates with FYM under optimal mineral fertilizer on tomato growth, soil organic C and biochemical quality in low fertility soil. *Sustainability*. 13: 2652 (DOI: 10.3390/su1305265) [**IF: 3.9; HJRS: W**].
- Waheed Anwar, K. Nawaz, A. Akhter, M. A. Javed, A. A. Shahid, M. S. Haider, M. Z. U. Rehman, and **S. Ali**. **2021**. Characterization of fungal flora associated with sternorrhyncha insects of cotton plants. *Biologia*. 76: 533–547 (DOI: 10.2478/s11756-020-00549-0) [**IF: 1.7; HJRS: X**].
- Sehrish Iftikhar, W. Anwar, A. Akhter, **S. Ali**, H. A. A. Khan, M. Khurshid, and M. S. Haider. **2021**. Genetic analysis and pathogenic characterization of *Alternaria tenuissima* induced fruit rot of bitter melon. *Biodiversitas*. 22 (2): 617-625 (DOI: 10.13057/biodiv/d220213) [**HEC Recognized: HJRS: Y**].
- Adnan Zahid, **S. Ali**, M. Ahmed, N. Iqbal. **2020**. Improvement of soil health through residue management and conservation tillage in rice-wheat cropping system of Punjab, Pakistan. *Agronomy*. 10: 1844 (DOI:10.3390/agronomy10121844) [**IF: 3.5; HJRS: W**].
- Hafiz Muhammad Khalid Abbas, A. Ahmad, W. Dong, J. Xiang, J. Iqbal, **S. Ali**, W. Akram and Yu-J. Zhong. **2020**. Heterologous WRKY and NAC transcription factors triggered resistance in *Nicotiana benthamiana*. *Journal of King Saud University-Science*. 32: 3005-3013 [**IF: 4.1; HJRS: W**].
- Sarah Shakeel, R. Mahmood, A. Fatima and **S. Ali**. **2020**. Application of response surface methodology to optimize ammonia volatilization determination by enclosure method. *Communications in Soil Science and Plant Analysis*. 51 (15): 2038-2044 [**IF: 1.4; HJRS: X**].
- Hafiz Azhar Ali Khan, W. Akram, and **S. Ali**. **2020**. Activities of select enzymes involved in insecticide resistance in spinosad-resistant and -susceptible strains of *Musca domestica*. *Journal of Medical Entomology*. 57 (2): 620-622 [**IF: 2.3; HJRS: W**].
- Khalique Dad, A. Wahid, A. A. Khan, A. Anwar, M. Ali, N. Sarwar, **S. Ali**, A. Ahmad, M. Ahmad, K. A. Khan, M. J. Ansari, and A. B. Gulshan. **2019**. Nutritional status of different biosolids and their impact on various growth parameters of wheat (*Triticum aestivum* L.). *Saudi Journal of Biological Sciences*. 26 (7): 1423-1428 [**IF: 2.8**].
- Sajid Ali**, A. Fatima, S. Khalid, F. Saeed, M. Shafiq, S. Afzaal, M. S. Haider, W. Tariq and J. Khan. **2019**. Virus titer as a disease resistance indicator in Tomato. *Bangladesh Journal of Botany*. 48 (3): 609-617 [**IF: 0.2**].
- Farman Ahmad, W. Anwar, M. A. Javed, R. Basit, A. Akhter, **S. Ali**, H. A. A. Khan, H. Amin and M. S. Haider. **2019**. Infection mechanism of *Aspergillus* and *Fusarium* species against *Bemisia tabaci*. *Mycopath*. 17(2): 69-78.
- Sajid Ali**, A. Fatima, Q. A. Bukhari, M. A. Iqbal, M. A. Rana, and S. Afzaal. **2019**. Effect of nitrogen fertilization on polyphenols in *Trachyspermum ammi* and *Foeniculum*

- vulgare* under various lights interception. Zeitschrift fur Arznei- und Gewurzpflanzen. 23 (2): 67-71 [IF: 0.1].
- Muhammad Aamir Iqbal, A. Hamid, T. Ahmad, M. H. Siddiqui, I. Hussain, **S. Ali**, A. Ali, and Z. Ahmad. **2019**. Forage sorghum-legumes intercropping: effect on growth, yields, nutritional quality and economic returns. Bragantia. 78 (1): 82-95 [IF: 1.1].
- Maroof Siddique, N. A. Tahir, S. Ali, S. Farooq, H. H. E. Peerzada and S. N. Khan. **2019**. Seed quality evaluation with respect to vigor, viability and fungi associated with commercial rice germplasm. Mycopath. 17 (1): 29-38.
- Ammara Fatima, **S. Ali***, M. Ijaz, R. Mahmood, J. Khan, A. I. Dar, M. Ahmad and S. Sattar. **2018**. Boron application improves the performance of fine grain rice cultivars. Pakistan Journal of Agricultural Sciences. 55 (4): 761-766 [IF: 0.7].
- Sajid Ali**, S. Afzaal, A. Fatima, S. W. Ali, M. Anees, F. Saeed, Q. A. Bukhari, A. N. Shahzad, M. Munir. **2018**. Effect of different lights interception and varying concentration of nitrogen fertilization on polyphenols in *Nigella sativa*. Zeitschrift fur Arznei- und Gewurzpflanzen. 22 (3): 138-141 [IF: 0.1].
- Waheed Anwar, **S. Ali**, K. Nawaz, S. Iftikhar, M. Asim Javed, A. Hashem, A. A. Alqarawi, E. F. A. Allah and A. Akhter. **2018**. Entomophthogenic fungi *Clonostachys rosea* as a biocontrol agent against whitefly (*Bemisia tabaci*). Biocontrol Science and Technology. 28 (8): 750-760 [IF: 1.0].
- Muhammad Aamir Iqbal, A. Iqbal, Z. Maqbool, Z. Ahmad, E. Ali, M. H. Siddiqui and **S. Ali**. **2018**. Revamping soil quality and correlation studies for yield and yield attributes in sorghum-legumes intercropping systems. Bioscience Journal. 34 (3): 1165-1176 [IF: 0.4].
- H. A. A. Khan, W. Akram, T. Khan, M. Arshad, **S. Ali**, R. Mahmood and F. Hafeez. **2017**. Leaf traits and gall formation in mango, *Mangifera indica* L. Pakistan Journal of Agricultural Sciences. 54 (1): 91-96 [IF: 0.7].
- Muhammad Ali, A. A. Shahid, **S. Ali**. **2017**. First Report of *Pythium debaryanum* Causing Chilli Damping Off in Pakistan. Plant Disease. 101 (2): 391. (DOI: 10.1094/PDIS-08-16-1209-PDN) [IF: 3.0].
- Sajid Ali***, B. Honermeier. **2016**. Post emergence herbicides influence the leaf yield, chlorophyll fluorescence and phenolic compounds of artichoke (*Cynara cardunculus* L.). Scientia Horticulturae. 203: 216-223. DOI 10.1016/j.scienta.2016.03.038 [IF: 1.7].
- Muhammad Saqib, M. Ijaz, **S. Ali**, M. Latif, M. Ahmad, N. Akbar. **2016**. The effect of different weed management strategies on the growth and yield of direct seeded dry rice (*Oryza sativa* L.). Planta Daninha. 34 (1): 57-64. (DOI: 10.1590/S0100-83582016340100006) [IF: 0.5].

- S. Iftikhar, A. A. Shahid, **S. Ali**. **2016**. First report of *Curvularia lunata* var. *aeria* causing leaf blight on tomato in Pakistan. Journal of Plant Pathology. 98 (1): 180. [IF: 1.3].
- Naeem Iqbal, H. A. A. Khan, A. M. Alvi, S. Saeed, T. Khan, **S. Ali**, Q. Saeed. **2016**. Knowledge, attitude and practices of household people about termites in southern Punjab, Pakistan. Journal of Entomology and Zoology Studies. 4 (5): 17-21.
- Sajid Ali***, M. Shahbaz, A. N. Shahzad, H. A. A. Khan, M. Anees, M. S. Haider and A. Fatima. **2015**. Impact of copper toxicity on stone-head cabbage (*Brassica oleracea* var. *capitata*) in hydroponics. PeerJ. (DOI: 10.7717/peerj.1119) [IF: 2.2].
- Muhammad Ijaz, M. A. S. Raza, **S. Ali**, K. Ghazi, T. A. Yasir, M. Saqib and M. Naeem. **2015**. Differential Planting Density Influences Growth and Yield of Hybrid Maize (*Zea mays* L.). Journal of Environmental and Agricultural Sciences. 2 (3): 1-5.
- Rashid Mahmood, A. A. Shahid, A. Usmani, M. S. Haider and **S. Ali**. **2014**. Nitrification Inhibition Potential of Various Leaf Extracts. Philippine Agricultural Scientist. 97 (3): 287-293 [IF: 0.3].
- Hafiz Muhammad Khalid Abbas, M. A. Farooq, S. Atta, M. N. Subhani, M. S. Haider and **S. Ali**. **2014**. Evaluation of different sugar beet varieties against *Fusarium oxysporum* f. sp. *betae* and *Alternaria alternata*. Pakistan Journal of Phytopathology 26 (1): 115-117 [HEC Recognized].
- Sajid Ali**, M. Shahbaz, M. A. Nadeem, M. Ijaz, M. S. Haider, M. Anees and H. A. A. Khan. **2014**. The relative performance of weed control practices in September sown maize. Mycopath 12 (1): 43-51.
- Sajid Ali*** & B. Honermeier. **2013**. Can herbicide stress in artichoke (*Cynara cardunculus* L.) be detected by chlorophyll fluorescence? Int. J. Agri. Biol. 15 (6): 1295-1300 [IF: 0.9].
- Bernd Honermeier, **S. Ali**, B. Leschhorn, A. Mahmood, M. Ijaz, M. Russo, M. Shafiee, H. Ullah and S. Zeller. **2013**. Cultivation of medicinal and spice plants in Germany- A Review. Int. J. Agri. Biol. 15 (6): 1379-1388 [IF: 0.9].
- Sajid Ali*** and B. Honermeier. **2013**. Flavonoid concentrations of artichoke (*Cynara cardunculus* L.) leaves under the influence of harvest frequency and plant density. Zeitschrift fur Arznei- und Gewurzpflanzen. 18 (2): 80–86 [IF: 0.3].
- Sajid Ali**, A. Laique, M. Shafique, S. J. Khan and S. Atta. **2012**. Comparative Study of Mushroom growth on different media. Mycopath 10 (1): 37-39.
- Sajid Ali*** and B. Honermeier. **2011**. Effect of harvest frequency and plant density on leaf yield and caffeoylquinic acids in artichoke (*Cynara cardunculus* L.). Zeitschrift fur Arznei- und Gewurzpflanzen. 16 (4): 162 – 170 [IF: 0.3].
- Hafiz Mujeeb ur Rehman, **S. Ali** and M. M. Akram. **2011**. Resource Conservation Strategy for enhancing wheat productivity in Pakistan. Mycopath 9 (2): 79-85.

- Sajid Ali. 2011.** Leaf yield and polyphenols of artichoke (*Cynara cardunculus* L.) influenced by harvest frequency and herbicide stress. Ph. D Thesis. Inst. Agron. Plant Breeding I, JLU, Giessen, Germany (ISBN: 978-3-8359-5783-1).
- Sajid Ali***, A. Iqbal and M. A. Zia. **2003.** Weed crop combination in wheat (*Triticum aestivum* L.) by nitrogen levels and herbicide doses. Pakistan Journal of Biological Sciences. 6 (5): 452-455 [HEC Recognized].
- Sajid Ali**, M. Akhtar and A. Iqbal. **2003.** Effect of nitrogen and herbicide on growth and yield of wheat. Asian Journal of Plant Sciences. 2 (17-24): 1212-1214.
- Sajid Ali. 2002.** Weed-crop competition in wheat (*Triticum aestivum* L.) as affected by nitrogen levels and herbicide doses. M. Sc. Thesis. Dept. Agron. Univ. Agri. Faisalabad.

BOOK CHAPTERS:

- Sajid Ali**, A. Zahid, M. Ahmed, A. Fatima, A. Ayub, A. Zahra and A. Shahzad. **2024.** Impact of Biochar on Crop Yield and Production. pp 82-95. In: Biochar-Solid Carbon for Sustainable Agriculture. (Eds.) Rubab Sarfraz and Christopher Rensing. Bentham Science Publishers Pte. Ltd. (ISBN 978-981-5238-06-8). September 25.
- Jannat Akram, M. Z. Haider, M. Shaiq, A. Sami, M. T. Manzoor, **S. Ali**, M. S. Haider, M. A. Shahid and R. Siddique. **2024.** Cell Signaling Response Under Plants Stress. pp 447-472. In: Molecular Dynamics of Plant Stress and its Management. (Eds.) Muhammad Shahdi and Rajarshi Gaur. Springer, Singapore. (ISBN 978-981-97-1698-2). June 24. (DOI: 10.1007/978-981-97-1699-9).
- Sajid Ali**, A. Zahid, A. Fatima, M. Aziz, H. Maqsood, A. Shezhad, S. Younas and Bushra. **2023.** Conservation Agriculture a Sustainable Approach for Disaster Risk Reduction in Rice Wheat Cropping System of Pakistan. pp 311-333. In: Disaster Risk Reduction in Agriculture. (Eds) Mukhtar Ahmed and Shakeel Ahmad. Springer, Singapore. (ISBN: 978-981-99-1763-1). November 03. (DOI:10.1007/978-981-99-1763-1_15).
- Sajid Ali**, A. Zahid, A. Fatima, M. Ahmad, M. T. Manzoor, A. Ayub, A. Raza and N. Shafqat. **2023.** Harnessing Soil Potential: Innovation in Strategic Tillage and Management - New Perspectives. pp 1-18. In: Strategic Tillage and Soil Management-New Perspectives. (Ed) Rodrigo De Sousa (ISBN: 978-1-83769-223-1). September 27. (DOI: <http://dx.doi.org/10.5772/intechopen.113036>)
- Mukhtar Ahmed, **S. Ali**, A. Zahid, S. Ahmad, N. A. Yasin, and R. Hayat. **2023.** Climate Change and Process-Based Soil Modeling. pp 73-106. In: Global Agricultural Production: Resilience to Climate Change. (Ed) Mukhtar Ahmed. Springer Cham (ISBN: 978-3-031-14973-3). January 01. (DOI: <https://doi.org/10.1007/978-3-031-14973-3>).
- Sajid Ali**, A. Fatima, A. Zahid, S. Shoukat, Bisma, R. Khaliq, N. Khan, U. Ali and A. Akram. **2022.** Mulching and Micronutrient Synergisms for Sustainable Crop

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- Muhammad Rizwan Tariq, S. W. Ali, **S. Ali** and M. Shafiq. **2022**. Health and Medical Properties of Turmeric Oleoresin. pp 285-300. In: *Handbook of Oleoresins: Extraction, Characterization and Applications*. (Eds.) Gulzar Ahamd Nayik, Amir Gull, Tariq Ahmad Ganaie. CRC Press, Taylor and Francis Group, Boca Raton, London, New York. August 07. (DOI: 10.1201/9781003186205)
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RESEARCH PROJECTS

- Principal Investigator of research project entitled **“Soil Organic Carbon changes & yield attributes of wheat, linseed and chickpea in mono-cropping and intercropping system”** 0.20 million funded by University of the Punjab, Lahore for the fiscal year 2024-25 (**Ongoing**).
- Principal Investigator of the research project entitled **“Soil carbon dynamics in response to tillage, nutrient management and climate change under rice-wheat cropping system of Punjab, Pakistan”**. 4.323 million funded by HEC for the fiscal year 2023-2026 (**Ongoing**).
- Principal Investigator of the research project entitled **“*Decomposition* of crop residues using lignocellulolytic microbial consortia and nitrogen supplementation for sustainable management of residue burning”**. 0.20 million funded by University of the Punjab, Lahore for the fiscal year 2022-23 (**Completed**).
- Principal Investigator of the research project entitled **“Micronutrients dynamics in response to tillage and straw returning practices under rice-wheat rotation in Punjab, Pakistan”**. 0.32 million funded by University of the Punjab, Lahore for the fiscal year 2021-22 (**Completed**).
- Principal Investigator of the research project entitled **“Accumulation and remobilization of nitrogen (N) and Phosphorus (P) in wheat/maize and**

wheat/soybean strip cropping system under nutrients stress". 0.15 million funded by University of the Punjab, Lahore for the fiscal year 2019-20 (**Completed**).

- Principal Investigator of the research project entitled **"A survey of knowledge, attitude and practices (KAP) of farmers related to weeds and their management"**. 0.15 million funded by University of the Punjab, Lahore for the fiscal year 2017-18 (**Completed**).
- Co-Principal Investigator of the research project entitled **"Knowledge, attitude and practices (KAP) survey of farmers related to crop production and protection in Punjab, Pakistan"** 0.15 million funded by University of the Punjab, Lahore for the fiscal year 2015-16 (**Completed**).
- Principal Investigator of project entitled **"Post emergence herbicides affect the yield and quality of wheat (*Triticum aestivum* L.)"**. 2014-15. Funded by University of the Punjab, amount 0.15 million (**Completed**).
- Principal Investigator of project entitled **"Nitrogen and Potash influence the concentration of polyphenols in Black seed (*Nigella sativa* L.)"**. 2013-14. Funded by University of the Punjab, amount 0.15 million (**Completed**).
- Principal Investigator of project entitled **"Light interception affects the concentration of polyphenols in Fennel (*Foeniculum vulgare* L.)"**. 2012-13. Funded by University of the Punjab, amount 0.15 million (**Completed**).
- Principal Investigator of project entitled **"Light interception and nitrogen fertilization alter the concentration of polyphenols in medicinal plants"**. 2012-13. Funded by HEC, amount 0.48 million (**Completed**).

CONFERENCE PROCEEDINGS:

Zain Ali, Z. Basharat, M. R. Tariq, S.W. Ali, **S. Ali**, M. Shafiq and M. Anees. **2023**. Comparative study of food handlers' knowledge about food safety & hygiene in domestic and international fast-food chains. 8th International Baskent Congress on Physical, Engineering, and Applied Sciences. Ankara, Turkey. pp 440-447. Feb 04-06. (ISBN: 978-975-00544-5-7)

Anum Muneer, M. R. Tariq, S. W. Ali, **S. Ali**, M. Shafiq and M. Anees. **2022**. Analyzing awareness about food labelling among consumers in Pakistan. 3rd International Congress on Life, Social, and Health Sciences in A Changing World. Turkey/Germany. pp 979-984. July-02-03 (ISBN: 978-605-71461-9-9).

Awisra Rehman, Z. Basharat, M. R. Tariq, S. W. Ali, **S. Ali**, M. Shafiq, M. Anees. **2022**. Comparative analysis of consumer's preferences towards raw and packed meat. 3rd International Congress on Life, Social, and Health Sciences in A Changing World. Turkey/Germany. pp 1038-1046. July-02-03 (ISBN: 978-605-71461-9-9).

Sabahat, Wazuha, M. Rehman, M. R. Tariq, S. W. Ali, **S. Ali**, M. Shafiq and M. Anees. **2021**. Comparative assessment of consumer's behavior towards raw milk and packed milk. 3rd International Congress on Life, Social, and Health Sciences in A Changing World. Istanbul, Turkey. pp 349-355. November 13-14 (ISBN: 978-605-74191-9-4).

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- Sajid Ali** and B. Honermeier. **2010**. Herbicides affect yield, physiology and polyphenols in artichoke leaves (*Cynara cardunculus* L.). 53rd Annual conference of German Society of Agronomy (Coexistence of green gene technology). Hohenheim, Germany. pp 27-30. September 28-30.
- Bernd Honermeier, **S. Ali** C. Matthes, S. Goettmann and F. Yan. **2009**. Polyphenole in der Artischocke (*Cynara cardunculus* ssp. *flavescens* WIKL.)-entwicklungspysiologische und agronomische Einflussfaktoren. 44th lecture's session (50 years of Agronomic Society- Review and future prospects). Weihenstephan science center, Freising, Germany. pp 85-87. March 16-17.
- Sajid Ali** and B. Honermeier. **2008**. Effect of Harvest frequency on leaf yield and CQA content of artichoke (*Cynara cardunculus* ssp. *Flavescens* WIKL.). Joint conference of (18th) Bernburger winter seminar & (5th) symposium of medicinal plants and spice (Quality, efficiency and sustainability). Bernburg, Germany. pp 56-57. February 18-21.
- Sajid Ali** and B. Honermeier. **2008**. Effect of herbicides on photosynthetic yield and leaf yield in artichoke (*Cynara cardunculus* L.). Joint conference of (51st Annual conference) German Society of Agronomy & (51st annual conference) German society of plant breeding (Bio diversity in crop production). Goettingen, Germany. pp 55-56. October 01-02.
- Sajid Ali** and B. Honermeier. **2007**. Effect of Harvest frequency on leaf yield and concentration of polyphenols in artichoke (*Cynara cardunculus* L.). 50th Annual conference of German Society of Agronomy (50 years of Agronomic society- Review and future prospects). Bonn, Germany. pp 242-243. September 18-20.

Christian Matthes, F. Yan, **S. Ali** and B. Honermeier. **2006**. Morphologische und tageszeitliche Einflüsse auf den Gehalt an Ployphenolen in den Blattdrogen der Artischocke (*Cynara cardunculus*). 49th Annual conference of German Society of Agronomy (Renewable Resources in Agronomy). Rostock, Germany. pp 192-193. September 19-21.

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Sajid Ali, A. Fatima. **2024**. Bioactive Compounds in Neglected Plants Heal Humans. In Abstracts Two-Day International Symposium on Medicinal Plants and Natural Products. Community College, PARS, University of Agriculture, Faisalabad Pakistan. pp 133. March 7-8 (ISBN: 978-627-7502-12-6).

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- Sajid Ali**, A. Zahid, M. Ahmad, A. Fatima, W. Anwar, T. Raza, M. Arif and A. Ayub. **2022**. Long-term impact of conservation tillage and residue management on soil biological indicators in rice-wheat cropping system of Pakistan. In Abstracts, First International Conference on Plant Protection, 2022. College of Agricultural and Marine Sciences, Sultan Qaboos University, Muscat, Oman. pp 71. December 05-07.
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- Kanwal Shahzadi, M. R. Tariq, S. W. Ali, **S. Ali**, M. Shafiq and M. Anees. **2022**. Effect of Citrus Peel Powder in Marinade for Safety, Quality and Tenderness of Chicken. In Abstracts, International Food & Nutrition Conference, 2022 Swat (KPK) Pakistan. pp 113. August 18-20.
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- Ammara Fatima, H. Iqbal, H. A. A. Khan and **S. Ali**. **2022**. Effect of ZnO nanoparticles synthesized using *bacillus thuringiensis* on demographic parameters of *Musca domestica*. In Abstracts, International Conference on Recent Trends in Environmental Sustainability. Department of Environmental Science, COMSATS University Islambad, Vehari Campus. pp 155. February 21-23.
- Iqra Shahid, A. Fatima, **S. Ali** and S. Afzaal. **2021**. Molecular Identification and Incidence of *Stenotrophomonas maltophilia* in Dairy Environment. In Abstracts, 3rd International Conference on Emerging Trend in Earth & Environmental Sciences. College of Earth and Environmental Sciences, University of the Punjab Lahore Pakistan. pp 26. November 16-18.

- Sajid Ali**, A. Fatima, M. R. Tariq, M. Anees, and M. T. Manzoor. **2021**. Chlorophyll Fluorescence: An Indicator for Detection of Herbicide Stress in Artichoke. In Abstracts, 16th National Weed Science Congress of Weed Science Society of Pakistan. University of Agriculture, Peshawar. pp 44. July 08-10.
- Muneeb Ullah Khan, **S. Ali**, A. Fatima, M. R. Tariq, M. Anees, and M. T. Manzoor. **2021**. Efficacy of Neem (*Azadirachta indica*) Extracts on Bacterial Diseases of Cabbage & Cauliflower. In Abstracts, 1st International Conference on STEMS (Science, Technology, Engineering, Mathematics and Social Sciences). The Islamia University of Bahawalpur, Pakistan. pp 102-103. March 30-31.
- Sajid Ali**, A. Fatima, S. Afzaal, H. A. A. Khan, M. Anees, and M. T. Manzoor. **2020**. Medicinal value of neglected herbs: famers' perspective. In Abstracts, International Horticulture Conference (IHC 2020): Revolutionizing Horticulture for Secured Future. Institute of Agricultural Sciences, University of the Punjab, Lahore- Pakistan. pp 33. February 26-28.
- Muhammad Riaz, M. Adnan, I. Rehman, **S. Ali**, R. Mahmood, M. S. Arif, and Tahira Yasmeen. **2020**. biochar and mineral fertilizer enhanced radish (*Raphanus raphanistrum*) biomass, soil organic carbon and available nutrients in alkaline calcareous soil. In Abstracts, International Horticulture Conference (IHC 2020): Revolutionizing Horticulture for Secured Future. Institute of Agricultural Sciences, University of the Punjab, Lahore- Pakistan. pp 40. February 26-28.
- Moazzam Anees, A. Z. Awan, M. T. Manzoor, **S. Ali**, S. W. Ali, M. R. Tariq, and M. Shafiq. **2020**. Post-harvest treatments improve the physicochemical characteristics of guava (*psidium guajava*) fruit cv. surahi. In Abstracts, International Horticulture Conference (IHC 2020): Revolutionizing Horticulture for Secured Future. Institute of Agricultural Sciences, University of the Punjab, Lahore- Pakistan. pp 03. February 26-28.
- Faiza Shafique Khan, C. Hu, M. Shafiq, **S. Ali**, and M. Anees. **2020**. MYC2 transcription factor mediates by jasmonates signaling pathway stimulate the tolerance mechanism against the abiotic stress in plants. In Abstracts, International Horticulture Conference (IHC 2020): Revolutionizing Horticulture for Secured Future. Institute of Agricultural Sciences, University of the Punjab, Lahore- Pakistan. pp 64. February 26-28.
- Sajid Ali**, A. Fatima and S. Afzaal. **2019**. Anti-bacterial potential of herbal polyphenols: management strategy for drug resistant bacterial pathogens. In Abstracts,

International Conference of Punjab University: Recent Advances in Molecular Sciences. University of the Punjab, Lahore- Pakistan. pp 262. November 06-08.

Sohaib Afzaal, F. Zahid, **S. Ali**, and M. S. Haider. **2019**. Effects of fermentation and sterilization on phytic acid contents in wheat bran and sensory evaluation of bread baked with pre-fermented and pre-sterilized bran. International Conference of Punjab University: Recent Advances in Molecular Sciences. University of the Punjab, Lahore- Pakistan. pp 296. November 06-08.

Sajid Ali, Ammara Fatima, Sohaib Afzaal, Hafiz Azhar Ali Khan, Moazzam Anees and Muhammad Tariq Manzoor. **2019**. Do farmers know the medicinal and economical importance of non-traditional herbs? In Abstracts, 6th International Conference on "Sustainable Agriculture in Changing Climate: Strategies and Management". University of the Poonch Rawalakot, AJK. June 19-21.

Sajid Ali, A. Fatima, S. Afzaal, H. A. A. Khan, M. Anees and M. T. Manzoor. **2019**. Medicinal value of non-traditional crops: Do the farmers care about it? In Abstracts, International Horticulture Conference. Department of Horticulture, Bahauddin Zakariya University, Multan, Pakistan. pp 136. February 26-28.

Sajid Ali, A. Fatima, S. Afzaal, W. Anwar, A. Zahid, A. Akhter, M. Anees and M. T. Manzoor. **2019**. Polyphenols for detoxification of heavy metals. In Abstracts, International Conference on Environmental Toxicology and Health, Department of Environmental Sciences, COMSATS University Islamabad, Vehari Campus, PAKISTAN. pp 6. February 25-27.

Sajid Ali and Ammara Fatima. **2019**. Bioactive compounds in neglected herbs: A way for health cure. In Abstracts, International Conference on Food, Agricultural Science and Technology (IC-FAST). University of the Punjab, Lahore. pp 71. January 15-17.

Sajid Ali, A. Fatima, H. Shanakhat, F. Saeed, S. Afzaal, T. Bahar, W. Anwar, M. S. Haider. **2018**. Isolation of *Bacillus species* from rhizosphere and their antifungal activity against *Alternaria alternata*. In Abstracts, International Conference on Biological Control of Pests and Diseases: Progress and Prospects. Department of Agriculture and Agribusiness Management, University of Karachi, Pakistan. pp 4. July 09-11.

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- Adnan Akther, M. T. Manzoor, **S. Ali**, A. Javed, W. Anwar. **2018**. Impact of activated biochar on the disease causing potential of *Fusarium oxysporum* F. Sp. *Lycopersici chlamydospores*. In Abstracts, International Conference on Biological Control of Pests and Diseases: Progress and Prospects. Department of Agriculture and Agribusiness Management, University of Karachi, Pakistan. pp 40. July 09-11.
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- Muhammad Tariq Manzoor, M. Anees, **S. Ali**, A. Akhter, M. S. Haider. **2018**. Expressiveness of mastrevirus movement protein gene in *Nicotiana benthamiana*. In Abstracts, International Conference on Biological Control of Pests and Diseases: Progress and Prospects. Department of Agriculture and Agribusiness Management, University of Karachi, Pakistan. pp 57. July 09-11.
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- Sajid Ali**, S. Afzaal, A. Fatima, Q. A. Bukhari, Z. Latif. **2018**. Behavior of polyphenols in *Trachyspermum ammi* under varying nitrogen fertilization and light interception. In Abstracts, 1st International and 2nd National Conference on Challenges and Opportunities to Boost Agriculture in Changing Climate. College of Agriculture, Bahauddin Zakariya University, Bahadur Sub-Campus, Layyah, Pakistan. pp 439. March 26-28.
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- W. Anwar, K. Nawaz, **S. Ali**, M. A. Javed, A. Zahid, A. A. Shahid, A. Akhter and M. S. Haider. **2018**. Micro biomes associated with insects of cotton crop in different agro ecological zones of Punjab, Pakistan. In Abstracts, 1st International and 2nd National

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Muhammad Ali, M. Ashfaq, **S. Ali**, A. Gulzar, A. Ghaffar and M. Shahzad. **2016**. Response of Different Genotypes of Brinjal to Jassid Population by External Application of Potash in Lahore. In Proceedings, International Conference on Significance of Potash Use in Pakistani Agriculture, Lahore, Pakistan. November 24-25.

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Sajid Ali and B. Honermeier. **2008**. Pyridate decreases chlorophyll fluorescence in artichoke (*Cynara cardunculus* L.) 554. In Abstracts, Annu. Meet., ASA, CSSA, SSSA & GSA, Houston, TX. USA. October, 05-09.

Sajid Ali and B. Honermeier. **2008**. Effect of agronomic factors and abiotic stress on leaf yield and polyphenols in artichoke (*Cynara cardunculus* L.). Joint lecture's session of Institute of Agronomy and Institute of Organic farming. Rauischholzhausen, Germany. July 02.

Sajid Ali and B. Honermeier. **2007**. Herbicide application in relation to chlorophyll fluorescence, leaf yield and polyphenol contents in artichoke (*Cynara cardunculus* L.). In Abstracts, Annu. Meet., ASA, CSSA, SSSA, New Orleans, LA. USA. pp 249. November 04-08.

Bernd Honermeier and **Sajid Ali**. **2007**. Effect of plant development on the concentration of polyphenols in artichoke (*Cynara cardunculus* L). Symposium Giessen Graduate Center for Life Sciences, Section Human, Nutrition and Environment. Giessen, Germany. May 30.

Sajid Ali and B. Honermeier. **2007**. Effect of harvest time and herbicide application on leaf yield and polyphenolic contents of artichoke (*Cynara cardunculus* L.). Winter conference of International Society of Soil Fertility. Rauischholzhausen, Germany. March 01-03.

CONFERENCES ORGANIZED:

- Moderator. International Webinar “Transforming Food Systems through Climate Smart Agriculture” as a part of the UN Independent Food Systems Summit Dialogues. **2021**. Department of Agronomy, University of the Punjab, Lahore, Pakistan. May, 25.
- Conference Secretary. International Conference on Significance of Potash Use in Pakistani Agriculture. **2016**. Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan. November, 24-25.
- Member Organizing Committee. National Workshop on Alternate Crops for the Future of Pakistan. **2016**. Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan. May 16.
- Member Organizing Committee. 5th International/10th National Conference of Pakistan Phytopathological Society. **2015**. Crop protection for sustainable agriculture. Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan. November 23-25.

TRAININGS / WORKSHOPS ATTENDED:

- Participated in “**Training Workshop for NAEAC Program Evaluators**”. Organized by National Agriculture Education Accreditation Council, HEC, Islamabad at University of the Punjab Lahore. February 14, 2024.
- Participated in One-Day Training on “**Use of Generative Artificial Intelligence Tools in Higher Education for Faculty Members of Universities**”. Organized by Punjab Higher Education Commission at University of Veterinary and Animal Sciences, Lahore. January 25, 2024.
- Participated in Two-Days Training on “**Outcome Based Education**”. Organized by Punjab Higher Education Commission at University of the Punjab, Lahore. June 07-08, 2023.
- One-day **hands-on training on “Endnote**”. Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan. January 12, 2016.

CONFERENCES/WORKSHOPS ATTENDED:

- Participated in Stakeholder Workshop: “**Sustainable Nitrogen Management and National Policies**”. Organized by UIKRI-GCRF South Asia Nitrogen Hub and University of Agriculture, Faisalabad at Marriott, Islamabad. March 21, 2023.
- Participated in Stakeholder Workshop: “**Sustainable Nitrogen Management and National Policies**”. Organized by UIKRI-GCRF South Asia Nitrogen Hub and University of Agriculture, Faisalabad at Faletti’s, Lahore. May 08, 2023.
- Participated in 17th National Weed Science Conference (Weed Science Society of Pakistan) on “**Food Security through Sustainable Vegetation Management**”. Organized by Weed Science Society of Pakistan at University of the Punjab, Lahore. October 27-28, 2022.

- Participated in International Webinar on “**Agricultural Nanotechnology: Influencing the Future of Farming Sustainability**”. Department of Plant Pathology, University of the Punjab, Lahore. July 29, 2021.
- Participated in International Webinar on “**Mushrooms: As Future Diet**”. Department of Plant Pathology, University of the Punjab, Lahore. July 07, 2021.
- Moderated International Webinar on “**Transforming Food Systems through Climate Smart Agriculture**” as a part of the **UN Independent Food Systems Dialogues**. Department of Agronomy, University of the Punjab, Lahore. May 25, 2021.
- Participated in International Webinar on World Food Day 2021 “**Safe Food Now for a Healthy Tomorrow Food Safety in Everyone’s Business**”. Department of Food Sciences, University of the Punjab, Lahore and National Alliance for Safe Food. June 07, 2021.
- Participated as Judge in “**FOODBUZZ, 2016**”. Organized by PSFST-Student Chapter, Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan. April 05, 2016.

SUPERVISED RESEARCH STUDENTS

PhD Research & Thesis:

Adnan Zahid. **2015-21**. Modeling dynamics of soil organic carbon under conventional and conservative tillage in rice-wheat cropping system. Institute of Agricultural Sciences, University of the Punjab, Lahore.

Muhammad Ajmal Rana. **2015-20**. Use of plant materials for urease inhibition to improve nitrogen use efficiency of wheat (*Triticum aestivum* L.). Institute of Agricultural Sciences, University of the Punjab, Lahore.

Iqra Rehman. **2016-20**. Screening, evaluating and optimizing biochar amendments for vegetable production under greenhouse conditions. Department of Environmental Sciences, Government College University, Faisalabad (**Co-Supervisor**).

M. Sc. (Hons.) Research & Thesis:

Kashaf. Siddiqi. **2024**. Real-Time Crop Image Analysis for Dynamic Nitrogen Management in Wheat Crop. Department of Agronomy, University of the Punjab, Lahore.

Sundas Abbas. **2024**. Response of maize (*Zea mays* L.) to different regimes of foliar applied Glutamine, Leucine and Tryptophan under reduced Nitrogen supply. Department of Agronomy, University of the Punjab, Lahore.

Hasnat Babar. **2024**. Comparative Evaluation of Herbicides for Controlling Broadleaf and Narrowleaf Weeds in Wheat: Efficacy and Yield Impacts. Department of Agronomy, University of the Punjab, Lahore.

- Saira Imran. **2024.** Comparative analysis of carbon stocks in different agroforestry systems in Punjab. Department of Agronomy, University of the Punjab, Lahore.
- Hassan Rauf. **2024.** Improvement of seed germination, seedling growth and Quality of Maize crop through Green Nanoparticle Priming technique. Department of Agronomy, University of the Punjab, Lahore.
- Muhammad Hasnat Aslam. **2024.** Evaluating the Impact of Molasses-Coated DAP on Maize Growth, and Developing a Mobile Spectrophotometer App for Soil Phosphorus Estimation. Department of Agronomy, University of the Punjab, Lahore.
- Muhammad Sajid Farooq. **2023.** Evaluating the effects of various coatings of urea fertilizer on Ammonia volatilization, Nitrogen uptake and yield of wheat. Department of Agronomy, University of the Punjab, Lahore.
- Sheraz Shoukat. **2023.** Investigating the effects of neem leaf extract on drought tolerance and productivity of Mung bean (*Vigna radiata*). Department of Agronomy, University of the Punjab, Lahore.
- Muhammad Haris. **2023.** Evaluating the impact of MLE on drought stress mitigation growth And Yield in Mung bean (*Vigna radiata*). Department of Agronomy, University of the Punjab, Lahore.
- Aaqib Hameed. **2023.** Accessing the impacts of different nitrogen fertilizers in top dressing on Ammonia volatilization, Nitrogen uptake and yield of wheat. Department of Agronomy, University of the Punjab, Lahore.
- Shuhood Mahmood Khan Shahid. **2022.** Evaluation of different conventional insecticides against wheat aphid *Shizaphis graminum*. Department of Entomology, University of the Punjab, Lahore.
- Shajia Saleem. **2022.** Identification and Characterization of Glycolate Oxidase gene family in tomato (*Solanum lycopersicum*). Department of Horticulture, University of the Punjab, Lahore
- Behram Khan Durrani. **2021.** Comparison of Organically and Conventionally grown vegetables on the basis of Active Ingredients and Palatability. Department of Horticulture, University of the Punjab, Lahore.
- Farwa Murtaza. **2021.** Genome wide identification and phylogenetic analysis of Dof transcriptional factor in Red Clover (*Trifolium pratense*) and its comparison with *Arabidopsis thaliana*. Department of Horticulture, University of the Punjab, Lahore.
- Danish Ahmad. **2020.** Effect of different edible coatings on the quality and shelf life of chinese meyer lemon (*citrus meyeri* L.). Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Nimra Khalid. **2020.** Growth and quality of Zinnia in response to different growth stimulants. Institute of Agricultural Sciences, University of the Punjab, Lahore.

- Khadjia Auranzeb Khan. **2020**. Studies on life-history traits of *Tribolium castaneum* on different rearing media. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Sohail Mushtaq. **2020**. The effects of population densities and diets on *Tribolium castaneum*. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Abeera Fatima. **2020**. Characterization and pathogenicity assays of enzyme xbat34 in *Nicotiana tabacum*. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Noor Ul Ain. **2020**. To study the population dynamics of wheat aphid spp. in response to different doses of nitrogen applications in Lahore, Punjab Pakistan. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Qaria Tariq. **2020**. Effect of chemical and bio-fertilizers on the anti-oxidant and anti-microbial potential of Quinoa (*Chenopodium quinoa*). Department of Environmental Science, Lahore College for Women University, Lahore (**Co-Supervisor**).
- Fatima Sultan. **2020**. Effect of organic and inorganic fertilizers on polyphenol and anti-oxidant potential of Mentha Piperita grown under heavy metal stress. Department of Environmental Science, Lahore College for Women University, Lahore (**Co-Supervisor**).
- Iqra Shahid. **2020**. Molecular identification and incidence of *S. maltophilia* in dairy environment. Department of Environmental Science, Lahore College for Women University, Lahore (**Co-Supervisor**).
- Neelam Kalsoom. **2019**. Application of plant growth promoting Rhizobacteria to mitigate the toxic effect of selected pesticides in *Triticum aestivum*. Department of Environmental Science, Lahore College for Women University, Lahore (**Co-Supervisor**).
- Saba Shahzadi. **2019**. Efficacy of exogenously applied salicylic acid to reduce the toxicity of selected pesticides in wheat (*Triticum aestivum*). Department of Environmental Science, Lahore College for Women University, Lahore (**Co-Supervisor**).
- Sehar Nazir. **2019**. Study the synergistic effect of salicylic acid and plant growth promoting rhizobacteria on oxidative stress induced by selected pesticides in wheat. Department of Environmental Science, Lahore College for Women University, Lahore (**Co-Supervisor**).
- Muhammad Mujtaba. **2017**. Comparative study of the effect of edible and chemical coatings on quality and shelf life of guava (*Psidium guajava*). Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Abdul Haleem. **2016**. Post-harvest application of food grade chemicals alters quality and storage life of guava (*Psidium guajava*). Institute of Agricultural Sciences, University of the Punjab, Lahore.

Muhammad Sajid Jameel. **2016**. Postharvest treatments influence the quality of tomato (*Solanum lycopersicum* L.). Institute of Agricultural Sciences, University of the Punjab, Lahore.

Muhammad Zahid Ghafoor. **2016**. Post-harvest treatments alter the shelf life and quality of cucumber (*Cucumis sativus*). Institute of Agricultural Sciences, University of the Punjab, Lahore.

Wajeeha Tariq. **2014**. Mechanism and efficiency of bacillus strains to induce systematic resistance in tomato plants against Fusarium Wilt. Institute of Agricultural Sciences, University of the Punjab, Lahore.

Muneeb Ullah Khan. **2013**. Comparison of the performance of chemical extracts of Fennel, Kalonji and Neem and pesticides on fungal and bacterial diseases of Canola, Cabbage and Cauliflower. Institute of Agricultural Sciences, University of the Punjab, Lahore.

B. Sc. (Hons.) Agriculture Internship:

Abdul Rehman. **2024**. Exploratory Research on the Role of Agriculture Extension Department in District Lahore. Department of Agronomy, University of the Punjab, Lahore.

Saad Bin Saleem. **2024**. Internship experience at Serve Ag Pvt Ltd. Department of Agronomy, University of the Punjab, Lahore.

Muhammad Mohsin Nawaz. **2024**. Exploratory Research on the Role of Agriculture Extension Department in District Lahore. Department of Agronomy, University of the Punjab, Lahore.

Muhammad Ibrahim. **2024**. Internship at Five Start Chemicals. Department of Agronomy, University of the Punjab, Lahore.

Hafeez Ur Rehman. **2024**. Farm Management Practices and the Production Techniques of Alfalfa Crop. Department of Agronomy, University of the Punjab, Lahore.

Muhammad Usman Munawar. **2024**. Marketing Management & Sales Aspect. Department of Agronomy, University of the Punjab, Lahore.

Muhammad Bilal. **2023**. Cotton Campaign in Ratta Tibba Vehari Region. Department of Agronomy, University of the Punjab, Lahore.

Saba Iqbal. **2023**. Learning Basic Techniques of Molecular Biology at CEMB. Department of Agronomy, University of the Punjab, Lahore.

Syed Agha Armaghan Asad Abbs Naqvi. **2023**. Internship at Adaptive Research Farm, Sheikhpura. Department of Agronomy, University of the Punjab, Lahore.

Hira Khan. **2023**. Exploratory Research on the role of Agriculture Extension Department in Division Lahore. Department of Agronomy, University of the Punjab, Lahore.

Fatima Ali. **2023**. Internship at Chase International Potato Processing Plant. Department of Agronomy, University of the Punjab, Lahore.

Hafiz Aqib Ali. **2023**. Seed Priming and Nano Particles Impact on Maize Germination & Agronomic Parameters of Wheat, Chickpea and Linseed. Department of Agronomy, University of the Punjab, Lahore.

Brira Hreem. **2023**. Internship at Ali Akbar Group, Lahore. Department of Agronomy, University of the Punjab, Lahore.

Tahrim Raza. **2022**. Internship at Soil & Water Testing Lab, Rapid Soil Fertility Research Institute Lahore. Department of Agronomy, University of the Punjab, Lahore.

Momna Arif. **2022**. Internship at Soil & Water Testing Lab, Rapid Soil Fertility Research Institute Lahore. Department of Agronomy, University of the Punjab, Lahore. Department of Agronomy, University of the Punjab, Lahore.

Saira Imran. **2022**. Internship at Water and Agriculture Department, National Engineering Services Pakistan (NESPAK). Department of Agronomy, University of the Punjab, Lahore.

Gul Zaib Hassan. **2022**. Internship at Bayer Crop Science, Manga Mandi, Lahore. Department of Agronomy, University of the Punjab, Lahore.

Sarah Shoaib. **2022**. Internship at Directorate of Agricultural Extension, Lahore. Department of Agronomy, University of the Punjab, Lahore.

Mahnoor Rizwan. **2022**. Internship at Directorate of Agricultural Extension, Lahore. Department of Agronomy, University of the Punjab, Lahore.

Muhammad Mehran. **2022**. Internship at Bayer Crop Science, Manga Mandi, Lahore. Department of Agronomy, University of the Punjab, Lahore.

Amna Rafique. **2022**. Internship at Soil & Water Testing Lab, Rapid Soil Fertility Research Institute Lahore. Department of Agronomy, University of the Punjab, Lahore.

Mubashir Ali. **2022**. Internship at Bayer Crop Science, Manga Mandi, Lahore. Department of Agronomy, University of the Punjab, Lahore.

Aamir Shahzad. **2021**. To engage farmers through Farmer Training Programmes and Advisory Services about Government Policies. Department of Agronomy, University of the Punjab, Lahore.

- Qammar Abbas. **2021**. Internship at the Office of the Director Agriculture Extension Lahore. Department of Agronomy, University of the Punjab, Lahore.
- Muhammad Amir Javed. **2021**. Marketing Management & Sales Aspects at Syngenta Vehari. Department of Agronomy, University of the Punjab, Lahore.
- Arish Akhlaq. **2021**. Bayer Research Centre Manga Mandi. Department of Agronomy, University of the Punjab, Lahore.
- Hassan Rauf. **2021**. Identification and Survey of Horticulture plants, crops at locality Bagh-e-Jinnah. Department of Agronomy, University of the Punjab, Lahore.
- Ahmad Hassan. **2021**. Vegetable Research, screening and seed production at CKD, Gujranwala. Department of Agronomy, University of the Punjab, Lahore.
- Rao Muhammad Zeeshan Afzal. **2021**. Vegetable Research, screening and seed production at CKD, Gujranwala. Department of Agronomy, University of the Punjab, Lahore.
- Saima Iqbal. **2021**. Internship at Office of Deputy Director Agriculture Extension, Lahore. Department of Agronomy, University of the Punjab, Lahore.
- Nimra Khan. **2021**. Environmental and Financial Impacts of Agroforestry on Farming Communities. Department of Agronomy, University of the Punjab, Lahore.
- Ayesha Sohail. **2021**. Internship at Office of Deputy Director Agriculture Extension, Lahore. Department of Agronomy, University of the Punjab, Lahore.
- Anila Khalid. **2021**. Internship at Office of Deputy Director Agriculture Extension, Lahore. Department of Agronomy, University of the Punjab, Lahore.
- Duaa Khalid. **2021**. Internship at Office of Deputy Director Agriculture Extension, Lahore. Department of Agronomy, University of the Punjab, Lahore.
- Arslan Ahmad. **2021**. Vegetable Research, screening and seed production at CKD, Gujranwala. Department of Agronomy, University of the Punjab, Lahore.
- Ume Kasloom. **2021**. Effect of water conservational techniques on wheat and cotton. Department of Agronomy, University of the Punjab, Lahore.
- Sheraz Shoukat. **2020**. Production of major crops and their impact on Agriculture's GDP: A review and synthesis of recent research. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Ayesha Akram. **2020**. Evaluation of soil biological indicators under conventional and conservation tillage in rice-wheat cropping system. Institute of Agricultural Sciences, University of the Punjab, Lahore.

- Rais Ahmad. **2020**. Water scarcity and irrigation system in Pakistan. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Bisma. **2020**. Comparison of micronutrients dynamics under conservation and conventional tillage: A Review. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Bushra. **2020**. Rice (*Oryza sativa* L.)–Wheat (*Triticum aestivum* L.) Cropping System in Response to Conservation Tillage and Residue Management. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Syed Nasir Abbas. **2020**. Bio fortification of Fe and Zn in rice & wheat crops: A Review. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Robina Khaliq. **2020**. Modelling of soil organic carbon under conservation and conventional tillage. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Humayun Ali. **2020**. Production of different varieties of potato, their control, and potato growing seasons. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Hamza Maqsood. **2020**. Comparison of weed population dynamics under conventional and conservation tillage. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Saqaina Younas. **2020**. Impact of conservation tillage and residue management on plant physiological characteristics. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Nimra Khalid. **2016**. Response of cosmos grown on different growth media to the varying light interception under the agro climatic conditions of Lahore. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Abeer Fatima. **2016**. Effect of light interception on the performance of zinnia grown on different growth media under the agro climatic conditions of Lahore. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Fatima Athar. **2016**. How differential light interception and growth media affects the growth and performance of vinca in Lahore? Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Faiza Shafique Khan. **2014**. Fruit and Vegetable Development Project. Institute of Agricultural Sciences, University of the Punjab, Lahore.
- Tasneem Nawaz. **2014**. Effect of Management Practices on the Establishment of Major Nurseries in Lahore: A case study. Institute of Agricultural Sciences, University of the Punjab, Lahore.

Hafiz Muhammad Khalid Abbas. **2012**. Studies on sugar beet diseases, their diagnosis and evaluation of sugar beet varieties for resistance. Institute of Agricultural Sciences, University of the Punjab, Lahore.

Maria Zareen. **2012**. Analysis of soil from experimental plots used for garlic crop. Institute of Agricultural Sciences, University of the Punjab, Lahore.

Amna Tahir. **2012**. Effect of different post-harvest techniques on the quality and shelf life of tomato. Institute of Agricultural Sciences, University of the Punjab, Lahore.

Tahmina Hanif. **2012**. Effect of different post-harvest techniques on the quality and shelf life of tomato. Institute of Agricultural Sciences, University of the Punjab, Lahore.

TEACHING EXPERIENCE:

2011-To date

Assistant Professor

Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan (since 27th December, 2011)

<http://pu.edu.pk/faculty/description/1476/Dr-Sajid-Ali.html>

RESEARCH EXPERIENCE:

2003-2005

Assistant Research Officer

Sugarcane Research Institute AARI, Faisalabad, Pakistan (14 October 2003 to 31 December 2005)

INDUSTRIAL EXPERIENCE:

2002-2003

Area Manger (Development and Sales)

SAWA-AG Network Sahiwal, Pakistan (23 November 2002 to 15 September 2003)

TRAININGS / COURSES:

2013

Two days training workshop. **Teaching as a Profession and Communication Skills**. Institute of Agricultural Sciences and Learning and Innovation Division of Higher Education Commission of Pakistan (19th to 20th June)

2009

One-day training program “**Varian Seminartour 2009 Chromatographie**” Varian Deutschland GmbH, DARMSTADT GERMANY (02nd February)

2006

3 months German language course SPEAK + WRITE MARBURG GRMANY (01st January to 26th March)

2005

3 months German language course by Goethe-Institute Karachi PAKISTAN (01st September to 04th December)

2003

One-day training program “Achieving Excellence for SAWA-AG” Center for Management Development (CMD), Lahore PAKISTAN (17th April)

PROFESSIONAL AFFILIATION:

- American Society of Agronomy
- Crop Science Society of America
- Soil Science Society of America
- German Society of Agronomy

INSTITUTIONAL DUTIES:

- **Student Advisor, Incharge Hostel Affairs and Sports Coordinator** FAS (previously IAGS), PU, Lahore since **08.02.2012**.
- **Member Disciplinary Committee** at FAS (previously IAGS), PU, Lahore since **31.05.2013**.
- **Member Under and Post Graduate Admission Committee** FAS (previously IAGS), PU since **2015** onwards.
- **Convener Admission Information Cell** at FAS (previously IAGS), PU, Lahore for the admissions **2013, 2014 & 2015**.
- **Focal Person of Department of Agronomy for Quality Enhancement Cell (QEC)** University of the Punjab, Lahore since **06.05.2021**.
- **Member Departmental Doctoral Programme Committee (DDPC)**, Department of Agronomy, University of the Punjab, Lahore since **14.07.2021**.
- **Member Board of Studies (BOS)**, Department of Agronomy, University of the Punjab, Lahore since **29.07.2021**.
- **Member Board of Faculty (BOF)**, Faculty of Agricultural Sciences, University of the Punjab, Lahore since **04.08.2021**.
- **Member Departmental Doctoral Programme Committee (DDPC)**, Department of Soil Science, University of the Punjab, Lahore since **24.09.2021**.
- **Member Departmental Doctoral Programme Committee (DDPC)**, Department of Horticulture, University of the Punjab, Lahore since **24.06.2022**.
- **Member National Curriculum Revision Committee (NCRC)** of Higher Education Commission (HEC) of Pakistan.

- Advisor Punjab Public Service Commission (PPSC).
- Examiner Punjab Public Service Commission (PPSC).

ANALYTICAL SKILLS:

- High Performance Liquid Chromatography (HPLC)

COMPUTER SKILLS:

Proficient in MS- Office and SPSS and Statistix®

EXTRA CURRICULAR ACTIVITIES:

- National Cadet Corps
- Athlete (800, 1500 & 5000 meter)
- Badminton
- Cricket

COMMUNICATION:

English
German (Satisfactory)
Urdu
Punjabi

REFERENCES:

Prof. Dr. Bernd Honermeier

(Director Retired)

Chair of Agronomy

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D-35392 Giessen, GERMANY

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Heinrich-Buff-Ring 26-32,

D-35392 Giessen, GERMANY

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