CURRICULUM VITAE - MUHAMMAD ZIA UL HAQ (PhD)

1. PERSONAL

Passport No.:	BM5901342
Date of Birth:	April 15, 1991
Postal Address:	Department of Agronomy, University of Agriculture Faisalabad, Pakistan.
Phone:	Mobile: +92 321 7589073
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EDUCATION

Degree	Year	Subjects	Division/CGPA	University
Ph.D.	2020	Botany	1st	Nanjing Agricultural University, Nanjing, China (14th in QS World University Rankings by Subject 2025: Agriculture & Forestry)
M.Sc. (Hons.)	2014	Agronomy	4.00/4.00	University of Agriculture, Faisalabad, Pakistan (34th in QS World University Rankings by Subject 2025: Agriculture & Forestry)
B.Sc. (Hons.)	2012	Agronomy	3.86/4.00	University of Agriculture, Faisalabad, Pakistan

2. DISSERTATION TITLE

Ph. D. Botany. Resistance Mechanism of Two Species and Occurrence Pattern of the Quinclorac-resistant *Echinochloa* in China

M. Sc. (Hons.) Agronomy. Weed Dynamics, Herbicide Efficacy, and Productivity of Direct-seeded Fine Rice as Influenced of by Wheat Stubble Management

3. SERVICE EXPERIENCE

- Serving as **Assistant Professor** in Department of Agronomy, University of Agriculture, Faisalabad, Pakistan (34th at QS World University Rankings by Subject 2025: Agriculture & Forestry) from August 31, 2020, till date.
- Served as **Lecturer** in Department of Agronomy, University of Agriculture, Faisalabad, from September 7, 2016, to August 30, 2020.

4. TEACHING EXPERIENCE

Experience of 4.5 years in teaching several courses on undergraduate (Basic Agriculture, Principles of Agronomy, Principles of Weed Management, Environmental Physiology and Crop Improvement, Application of Allelopathy in Agriculture) and post-graduate (Sustainable Agriculture, Stress Agronomy, Allelopathy in Agriculture) levels.

5. HONORS AND AWARDS

- Recipient of Travel Grant Award from International Weed Science Society, for International Weed Science Congress in Bangkok, Thailand 2022.
- Recipient of Faculty Development Program (50-Overseas Scholarship for UAF from Chief Minister of Punjab, Pakistan)

6. SKILLS

A. Filed-Based Skills

Expertise in field-based experiments and data collection for crop systems research.

Expertise in weed management, including the use of herbicides and integrated weed management approaches.

B. Wet Skills

Enzyme activity determination, molecular techniques including DNA/RNA extraction, PCR, Gel Electrophoresis, cDNA cloning.

C. Dry Skills

Proficiency in SPSS, RStudio, Primer Premier, SigmaPlot, Molecular Docking Software, BioEdit, AutoDock Tools.

7. RESEARCH INTERESTS

- Crop ecology and the interaction between crops, weeds, and the environment.

- Sustainable agricultural systems, focusing on climate-resilient farming and soil health.
- Exploring weed-crop competition and herbicide resistance in integrated crop management systems.
- Use of field-based experiments and data-driven approaches to study crop growth, productivity, and resilience under varying environmental conditions.

8. PROJECTS

Project title and duration	Status	Funding Agency	Budget (Rs. Million)	Key responsibilities
Continued				
National Foreign Experts Program-Cooperative Development for the Overseas Application of Intelligent Crop Monitoring with Remote Sensing (NFE-ICM)	CoPI	MST P.R. China	10	Remote sensing and crop modeling to monitor and optimize crop growth under different environmental conditions.
Completed				
1. Base Line Data Development of a New Herbicide F9600-4 400 gm/1SC Nov. 2021- Nov. 2022	CoPI	FMC Pakistan	0.86	Generation of dose response curves and field dose adjustment of a new herbicide for wheat crop.

9. PUBLICATIONS

A. INTERNATIONAL/IMPACT FACTOR PAPERS

1. Ali, H., **Zia Ul Haq, M***., Shafiq, S., Sarfaraz, W., Tayyab Hanif, M., Mahmood, A., Al-Hashimi, A. and Bilawal Junaid, M., 2025. Mitigation of salinity stress in coriander with zinc and iron foliar application. International Journal of Vegetable Science, https://doi.org/10.1080/19315260.2025.2487024
2. Matloob, A., Khaliq, A., Aslam, F., Jabran, K., **Zia Ul Haq, M.,** Farooq, N., Awan, T.H. and Abbas, T., 2025. Phytotoxic impact of crowfoot grass (*Dactyloctenium aegyptium* (L.) wild) on rice seedlings: Insights into growth inhibition and antioxidant defense activation. Ecological Frontiers. https://doi.org/10.1016/j.ecofro.2025.01.009
3. Shahbaz, A., Hassan, G.Z., **Zia Ul Haq, M*.,** Shafiq, S., Matloob, A., Maqbool, R., Tayyab Hanif, M. and Abu Bakar Hayat, M., 2025. Maize cultivar mixtures: a sustainable approach for weed management under reduced herbicide dose. Phytoparasitica, 53(2), p.28.
4. Hassan, G.Z., **Zia Ul Haq, M***., Shafiq, S., Shahid Ibni Zamir, M., Shahbaz, A. and Saqib, M., 2025. Integrated weed management in sunflower using a hybrid mixture and reduced herbicide dose. Journal of Crop Health, 77(1), pp.1-15.
5. **Zia Ul Haq, M***., Shafiq, S., Mohsin, M.Z.U., Ali, M., Khaliq, A., Abbas, R.N., Iqbal, M.Z. and Matloob, A., 2024. Pre-emergence herbicide selection for successful cultivation of black seed (*Nigella sativa* L.), psyllium (*Plantago ovata* Forsk), and quinoa (*Chenopodium quinoa* Willd.). Journal of Applied Research on Medicinal and Aromatic Plants, p.100576. https://doi.org/10.1016/j.jarmap.2024.100576
6. Babar, B.H., Ijaz, B., Nawaz, M., Gill, A.N., Jian, W., **Zia Ul Haq, M.,** Aslam, M.T., Hassan, M.U., Gurlee, S., Alharbi, S.A. and Ansari, M.J., 2024. Effects of potassium and boron fertilization on sunflower yield, oil content, and quality. Chilean journal of agricultural research, 84(6), pp.729-738.
7. Munir, S., Azeem, A., Zaman, M.S. and **Zia Ul Haq, M***., 2024. From field to table: Ensuring food safety by reducing pesticide residues in food. Science of The Total Environment, p.171382.
8. Tehseen, M., Attia, H., Khaliq, A., Saleh, M.A., **Zia Ul Haq, M***., Alamer, K.H., Ijaz, B., Ali, I., Perveen, S. and Hussain, S., 2024. Biochemical, physiological, and nutrient acquisition response of wheat cultivars to nickel and vanadium toxicity. Journal of Plant Growth Regulation. https://doi.org/10.1007/s00344-024-11416-6
9. Aslam, M.T., Maqbool, R., Khan, I., Chattha, M.U., Nawaz, M., Shah, A.N., **Zia Ul Haq, M**., Gulzar, M.N., Alqahtani, F.M., Hashem, M. and Hassan, M.U., 2024. Efficacy of different pre and post emergence herbicide application on late sown maize crop under variable planting density. International Journal of Plant Production, 18, 229–238
10. **Zia-Ul-Haq, M**., Iqbal, F., Shafiq, S., Nawaz, M., Ali, B., Ibrahim, M.U., Ahmad, R.M., Lihong, W., Aslam, M.T., Hassan, M.U. and Hashem, A. 2024 Exploring the phyto-remediation potential of different winter weeds for lead toxicity. Polish Journal of Environmental Studies. 33(4):4481-4492
11. Aslam, M.T., Imran, K., Chattha, M.U., Maqbool, R., **Zia Ul Haq, M**., Lihong, W., Usman, S., Rasheed, A., Hassan, M.U., Hashem, M. and Elnour, R.O., 2023. The critical role of nitrogen in plants facing the salinity stress: Review and future prospective. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 51(3), pp.13347-13347.

12. Ibrahim MU, Khaliq A, Hussain S, **Zia Ul Haq M,** Saqib M. 2023. Brassica water extract hormesis improved drought tolerance and antioxidative defense in wheat. Gesunde Pflanzen. https://doi.org/10.1007/s10343-022-00820-1
13. Shakoor, A, Saleem, MF, Sarwar M, **Zia Ul Haq M. 2023.** Exogenous application of chitosan mediated biochemical, phenological, quality, and yield attributes of heat-stressed cotton (*Gossypium hirsutum* L.). Gesunde Pflanzen. https://doi.org/10.1007/s10343-023-00832-5
14. Ibrahim MU, Khaliq A, Hussain S, **Zia Ul Haq M**. 2023. Alleviation of drought stress and mediated antioxidative defense in wheat through moringa leaf extract hormesis. Arabian Journal of Geosciences **2023**. 16:118.
15. Cheng C, An L, Li F, Ahmad W, Aslam M, **Zia Ul Haq M**, Yan Y, Ahmad RM. 2023. Wide-Range Portrayal of AP2/ERF Transcription Factor Family in Maize (*Zea mays* L.) Development and Stress Responses. Genes**,** 14:194.
16. Alamer, K.H., Perveen, S., Khaliq, A., **Zia Ul Haq, M*.,** Ibrahim, M.U. and Ijaz, B., 2022. Mitigation of salinity stress in maize seedlings by the application of vermicompost and sorghum water extracts. Plants, 11: 2548.
17. Ajmal, Z., Kashif Irshad, M., Qadeer, A., **Zia Ul Haq, M*.,** Ullah, R., Aqeel Sarwar, M., Saeed, T., Abid, M., Hayat, A., Ali, A. and Noman, A., 2022. Novel magnetite nano-rods-modified biochar: a promising strategy to control lead mobility and transfer in soil-rice system. International Journal of Environmental Science and Technology, 20:7543-7558.
18. Ali, H., Ahmed, S., Hsini, A., Kizito, S., Naciri, Y., Djellabi, R., Abid, M., Raza, W., Hassan, N., Rehman, M.S. and Khan, A.J., Khan, M., **Zia Ul Haq, M.** et al. 2022. Adsorption/desorption characteristics of novel Fe3O4 impregnated N-doped biochar (Fe_3O_4@ N/BC) for arsenic (III and V) removal from aqueous solution: Insight into mechanistic understanding and reusability potential. Arabian Journal of Chemistry, p.104209.
19. **Zia Ul Haq, M.,** Zhang, Z., Qiang, S., Ahmad, R.M., Abdulmajid, D. and Fiaz, M., 2022. An insight of quinclorac resistance mechanism in early watergrass (*Echinochloa oryzoides*). Advances in Weed Science, 10.51694/AdvWeedSci/2022;40:00009.
20. Khaliq, A., Perveen, S., Alamer, K.H., **Zia Ul Haq, M***., Rafique, Z., Alsudays, I.M., Althobaiti, A.T., Saleh, M.A., Hussain, S. and Attia, H., 2022. Arbuscular mycorrhizal fungi symbiosis to enhance plant–soil interaction. Sustainability, 14: 7840.
21. Khaliq, A., Ibrahim, M.U., Hussain, S., **Zia Ul Haq, M.,** Al-Huqail, A.A., Nawaz, M., Ali, B., Khan, F., Ali, H.M. and Siddiqui, M.H. 2022. The hormetic effects of a brassica water extract triggered wheat growth and antioxidative defense under drought stress. Applied Sciences, 12: 4582.
22. Fiaz, M.; Wang, C.; **Zia Ul Haq, M.**; Haider, M.S.; Zheng, T.; Mengqing, G.; Jia, H.; Jiu, S.; Fang, J. 2021. Molecular evaluation of Kyoho grape leaf and berry characteristics influenced by different NPK fertilizers. Plants, 10: 1578.
23. **Zia Ul Haq, M.,** Zhang, Z., Jiajia, W., Qiang, S. 2020. ethylene biosynthesis inhibition combined with cyanide degradation confer resistance to quinclorac in *Echinochloa crus-galli* var. *mitis*. International Journal of Molecular Sciences. 21: 1573.
24. Cheng, J., Yang, X., Xue, L., Yao, B., Lu, H., Tian, Z., Li, J., Zhou, X., Zhang, Y., **Zia Ul Haq, M.,** Wu, S., Song, X., Hu, S., Qiang, S. 2020. Polyploidization contributes to evolution of competitive ability: a long-term common garden study on the invasive *Solidago canadensis* in China. OIKOS, 129:700-713.
25. **Zia Ul Haq, M.**, Khaliq, A., Qiang, S., Matloob, A., Hussain, S., Fatima, S., Aslam, Z. 2019. Weed growth, herbicide efficacy, and rice productivity in dry seeded paddy field under different wheat stubble management methods. Journal of Integrative Agriculture, 18: 907-926.
26. Khaliq, A., **Zia Ul Haq, M.**, Ali, F., Aslam, F., Matloob, A., Navab, A., Hussain, S. 2015. Salinity tolerance in wheat cultivars is related to enhanced activities of enzymatic antioxidants and reduced lipid peroxidation. CLEAN-Soil, Air, Water. 43: 1248-1258.

B. NON-IMPACT FACTOR PAPERS

- Aslam, Z., Avais, M.A., Farooq, M.R., Rafique, M.A., **Zia Ul Haq, M.,** Nazarat, A., Afzal, A. and Khalid, M.A., 2021. Method development, validation and calculation of uncertainty for the determination of lambda-cyhalothrin from commercial formulations through reverse-phase liquid chromatographic approach. Journal of Agricultural Research 2021, 59: 271-278.
- Khaliq, A. and **M. Zia Ul Haq**. Correlation of Sustainable Agriculture and Intercropping Models In Sugarcane. NVEO-NATURAL VOLATILES & ESSENTIAL OILS Journal| NVEO **2022**, pp.879-887.

C. EDITED BOOK

- **Muhammad Zia Ul Haq** and Iftikhar Ali. 2024. Revolutionizing Pest Management for Sustainable Agriculture (2 Volumes). IGI Global. ISBN13: 9798369330616. DOI: 10.4018/979-8-3693-3061-6

D. BOOK CHAPTERS

- Azeem, S., Sohail, M., Azeem, A., **Zia Ul Haq, M**., Hassan, Z., Khan, A.A. and Shahzad, U., 2024. Guardian Crops Cultivating Resilience Against Pests. In Revolutionizing Pest Management for Sustainable Agriculture (pp. 181-202). IGI Global.
- Shafiq, S., **Zia Ul Haq, M**., Shafique, S., Khalid, S., Hamza, M., Ali, H. and Sarfaraz, W., 2024. Climate-Adaptive Pest Management for Sustainable Agriculture: Navigating Temperature, Precipitation, and Evolving Pest Dynamics. In Revolutionizing Pest Management for Sustainable Agriculture (pp. 31-52). IGI Global.
- Shafiq, S., **Zia Ul Haq, M**., Shahbaz, A., Shafique, S., Riaz, M., Hanif, M.T., Jilani, G., Ali, H., Sarfaraz, W., Naqvi, S.A.R. and Hassan, G.Z., 2024. Agrochemicals and Climate Change. In Water-Soil-Plant-Animal Nexus in the Era of Climate Change (pp. 49-77). IGI Global.
- Azeem, A., Ul-Allah, S., Khan, S., Dullu, M.U.D., Azeem, S., Zaman, M.S. and **Zia Ul Haq, M.**, 2024. Enhancing Crop Resilience in the Face of a Changing Climate: Strategies for Sustainable Agricultural Production. In Water-Soil-Plant-Animal Nexus in the Era of Climate Change (pp. 114-136). IGI Global.
- Azeem, A., **Zia Ul Haq, M**., Rasheed, H.U., Uddin, S., Dullu, M.U.D., Azeem, S. and Zaman, M.S., 2024. Bridging the Gap Between Climate Change and Plant Biology: Enhancing Resilience Through Genetic Diversity and Agroecological Practices. In Water-Soil-Plant-Animal Nexus in the Era of Climate Change (pp. 173-193). IGI Global.
- Azeem, A., Ul-Allah, S., Khan, S., Dullu, M.U.D., Azeem, S., Zaman, M.S. and **Zia Ul Haq, M**., 2024. Enhancing Crop Resilience in the Face of a Changing Climate: Strategies for Sustainable Agricultural Production. In Water-Soil-Plant-Animal Nexus in the Era of Climate Change (pp. 114-136). IGI Global.
- Aslam, M.T., Chattha, M.U., Khan, I., **Zia Ul Haq, M.**, Mustafa, A., Athar, F., Bisma, Nawaz, M., Shah, A.N., Mahmood, F. and Hassan, M.U., 2023. Scope of Seed Priming in Inducing Biofortification in Plants. In Mineral Biofortification in Crop Plants for Ensuring Food Security (pp. 233-259). Singapore: Springer Nature Singapore.
- **Zia Ul Haq, M**., Abdel-Kareem, M.S., Ali, I., Fathy, A.A., Khaliq, A. and El-Kenany, E.T., 2022. Role of Algae in Agriculture. In Handbook of Research on Algae as a Sustainable Solution for Food, Energy, and the Environment (pp. 287-310). IGI Global.

10. EDITORIAL ROLE

- Working as Associate Editor in Crop Protection Journal

11. JOURNAL REVIEWER

- Acta Physiologiae Plantarum
- Crop Protection
- BMC Environmental Science
- International Journal of Environmental Science and Technology
- Journal of Environmental Management
- Journal of Hazardous Materials
- Peer J
- Pakistan Journal of Agricultural Sciences
- MDPI Proceedings
- Journal of Water and Environmental Nanotechnology
- AIMS Agriculture and Food

11. PhD STUDENTS RESEARCH PROJECTS (ongoing as supervisor)

Name	Project title
Mr. Abdul Khaliq	Agronomic Interventions to Enhance Productivity and Reduce Carbon Footprint in Sugarcane Cultivation
Ms. Saira Shafiq	Assessing the Carryover Effect of Abiotic Stress Towards Herbicides Sensitivity in Some Summer Weeds
Ms. Amna Khan	Energy Use Efficiency, Carbon Footprint, and Economic Returns of Various Weed Control Methods in Cotton-Wheat Cropping System under Conventional and Conservation Tillage Systems

12. PhD STUDENTS RESEARCH PROJECTS (ongoing as member supervisory committee)

Name	Project title
Amina Ashfaq	Yield Stability and Adaption of Diverse Soybean Maturity Groups under Variable Environments
Iram Akram	Studies into Eco-biological Interference and Management of *Leptochloa chinensis* in Rice

Jaweria Waris	Exploiting Pearl Millet Cultivars for their Comaparative Phytoremediation Potential and its Enhancement through Various Amendments
Rukhsar Saleem	Enhancing Farm Productivity and Sustainability through Cereal-soybean Intercropping
Muhammad Rizwan	Ameliorating the Effects of Drought and Heat Stress in Maize through Nitric Oxide Application

13. MASTER'S STUDENTS GRADUATED (as supervisor)

Sr.	Name	Year	Thesis title
1	Muhammad Zia Ul Mohsin	2022	Dose optimization of S-metolachlor for weed control in black seed (*Nigella sativa* L.), Psyllium (*Plantago ovata* L.), and Quinoa (*Chenopodium quinoa* L.)
2	Majid Ali	2022	Dose optimization of pendimethalin for weed control in black seed (*Nigella sativa* L.), Psyllium (*Plantago ovata* L.), and Quinoa (*Chenopodium quinoa* L.)
3	Anas Ali	2022	Determination of critical period for weed control in lentil (*Lens culinaris* Medik.)
4	Nausheen Aslam	2022	Exploration of phytoremediation potential of winter weeds against cadmium toxicity
5	Fazila Iqbal	2022	Exploration of phytoremediation potential of winter weeds against lead stress
6	Muhammad Jazib Latif	2023	Weed Dynamics and Productivity of Onion Crop as Influenced by Different Pre-emergence Herbicides and Sowing Methods
7	Amina Shahbaz	2023	Weed Management in Maize (*Zea mays* L.) Hybrid Mixture by Reduced Herbicides Doses
8	Bilal Nasar	2023	Weed Control Efficacy of Reduced Dose of Herbicide in Maize Hybrid Mixture
9	Ghulam Jilani	2023	Comparative Performance of Two Bread Wheat Cultivars Under Different Sowing Methods: A Study of Flat Sowing, Bed Sowing, and Zero Tillage of Wheat
10	Maryam Riaz	2023	Morpho-Physiological Response and Metal Portioning of Pearl Millet Genotypes under Arsenic Toxicity
11	Muhammad Tayyab Hanif	2024	Weed Control in Onion Crop through Pre and Post Emergence Herbicides under Two Sowing Methods
12	Gul Zaib Hassan	2024	Ecological Weed Management in Sunflower (*Helianthus anus* L.) through Hybrid Mixture and Reduced Herbicide Doses
13	Syed Abbas Raza Naqvi	2024	Determination of Critical Period of Weed Control in Early Sown Wheat (*Triticum aestivum* L.)
14	Muhammad Majid Islam	2024	Weed Suppression with Cover Crop in Maize (*Zea mays* L.) under Reduced Doses of Atrazine and Mesotrione
15	Wardha Sarfaraz	2024	Competitive Performance of Wheat and Barley with Wild Oat under Normal and Saline Environments
16	Hina Ali	2024	Biofortification and Mitigation of Salinity Stress in Coriander with Zinc and Iron Foliar Application with Adjuvants

13. MASTER'S STUDENTS GRADUATED (as member supervisory committee)

Sr.	Name	Year	Thesis title
1	Muhammad Anas Khan	2022	Amelioration of drought stress in maize through application of brassica water extract
2	Noor Ul Huda Khalid	2022	Mitigation of lead toxicity in wheat (*Triticum aestivum* L.) through brassica hormesis
3	Fatima Arshad	2022	Bio-efficacy of sole and tank mix of herbicides on weed control in wheat
4	Tasbiha Saeed	2022	Weed dynamics, herbicide efficacy and productivity of wheat as influenced by post-emergence herbicides
5	Sharafat Ali	2022	Amelioration of salt stress in maize (*Zea mays* L.) through moringa leaf extract hormesis
6	Ijaz Batool	2022	Mitigation of cadmium toxicity in wheat (*Triticum aestivum* L.) through brassica hormesis
7	Qamar Yaqoob	2022	Weed management in newly introduced maize-soybean intercropping systems
8	Hafiz Muhammad Hamza Saleem	**2022**	Effect of nitrogen rates and time of applications on growth, yield and quality of soybean [Glycine max (L.) Merrill]

9	Aqsa Khalid	2023	Determining Weed Free Periods for Better Crop Yield under Different Sowing Methods in Soybean (*Glycine max* L.)
10	Muhammad Bilal Siddique	2023	Evaluating the Efficacy of Herbicides for Different Varieties of Soybean
11	Muhammad Mujahid	2023	Amelioration of Salt Stress in Maize (*Zea mays* L.) through Brassica Water Extract Hormesis
12	Muhammad Shahbaz Khan	2023	Management of Weeds in Autumn Planted Soybean *Glycine max* (L.) Merrill
13	Muhammad Ahmad	2023	Weed Dynamics, Herbicide Efficacy and Productivity of Maize as Influenced by Application of Pre-emergence Herbicides
14	Adnan Ali	2023	Evaluating the Effect of Different Herbicides and their Time of Application on Weed Dynamics and Yield in Direct Seeded Rice
15	Sohail Ahmad	2023	The Influence of Planting Dates on Biomass and Quality of Sorghum and Sorghum-Sudangrass Hybrids under Semi-arid Conditions
16	Nishat Fatima	2023	Agronomic Interventions to Improve the Performance of Maize-Soybean Intercropping for Silage Quality
17	Bader Ijaz	2023	Weed Dynamics, Herbicide Efficacy and Productivity of Wheat as Influenced by Application of Pre- and Post-emergence Herbicides
18	Muhammad Zain Shahzad	2024	Growth and Yield Response of Safflower to Foliar Applied Zinc Oxide Under Varying Irrigation Regimes
19	Tehreem Hanif	2024	Allelopathic Effect of Neem (*Azadirachta indica*) and Eucalyptus (*Eucalyptus camaldulensis*) on the Growth and Germination of Wheat (*Triticum aestivum*) and Wild Oat (*Avena fatua*)
20	Hina Boota	2024	Mitigating the Effect of Heat Stress on Rice through Bacterial Inoculation
21	Sadam Hussain	2024	Response of Various Hybrids and Advanced Lines of Wheat to Reduced Fertilization
22	Muhammad Jaffar	2024	Alleviating the Effect of Grough Stress through Drought Tolerant Bacteria in Rice
23	Ayesha	2024	Studying Morphological and Phenological Development in Autumn Soybean Genotypes Across Diverse Maturity Groups
24	Muhammad Arsalan Sarwar	2024	Variation in Soil Organic Carbon Storage and Stoichiometry (C:N:P) under Long Term Cropping Systems

REFERENCES

1. Prof. Dr. Sheng Qiang
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2. Prof. Dr. Abdul Khaliq
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3. Dr. Bernal E. Valverde
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