

CURRICULUM VITAE

Name: Dr. Muhammad Rashid Waqas
Father's Name: Khadim Hussain
Date of Birth: January 02, 1985
Qualification: Ph.D. in Soil Sciences (2014)
Specialization Soil and Environmental Microbiology
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RESEARCH/TEACHING EXPERIENCE

1. Working as **Assistant Professor on Tenure Track System {TTS}** University of Agriculture Faisalabad.

PROJECTS COMPLETED AS PRINCIPAL INVESTIGATOR

1. NRP U HEC Funded Project. entitled “**Community based bio-organic fertilizer production for improving degraded soils**”. 2018-2020 (Completed)

SUPERVISION OF STUDENTS

M.Phil / M.Sc. (Hons)

As Supervisor and Co-Supervisor	14
As Member Supervisory Committee	15

M.Sc. Students

As Supervisor/Advisor	30
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LIST OF PUBLICATIONS

A: BOOK CHAPTERS:

1. Nadeem, Sajid Mahmood, M. **Rashid Waqas**, Muhammad Yahya Khan, Rana Binyamin, and Zahir Ahmad Zahir. 2018. Role of halotolerant microbes in plant growth promotion under salt stress condition. In: Manoj Kumar and Hassan Etesami (eds.) Saline soil-based agriculture by halotolerant microorganisms. Springer- Eco-Microbiome- Verlag Berlin Heidelberg. pp 209-253.

2. Nadeem, Sajid Mahmood, Muhammad Yahya Khan, M. **Rashid Waqas**, Rana Binyamin, Sohail Akhtar, and Zahir Ahmad Zahir. **2017**. Arbuscular Mycorrhizas: An Overview. In: Qiang-Sheng Wu (ed.), Arbuscular Mycorrhizas and Stress Tolerance of Plants. Springer- Singapore. PP 1-24.
3. Shahroona, B., M. Arshad, **R. Waqas**, and A. Khalid., 2012. Role of ethylene and plant growth promoting rhizobacteria in stressed crop plants. In: Shanker, A. (ed.), *Crop stress and its management: Perspectives and strategies*. Springer- Verlag Berlin Heidelberg. PP 429-446.

B: RESEARCH PAPERS PUBLISHED (Recent):

1. Khan, M.A., Z. Ahmad, **M.R. Waqas**, S.M. Nadeem, S.A. Hameed and M. Iqbal. 2023. Phosphate Solubilizing Bacterial Inoculation on Seeds and Fertilizers for Improved Wheat Yield in Semiarid Field Conditions. *Soil Environ.* 42(2): xx-xx. DOI:10.25252/SE/2023/243170.
2. Sajid Mahmood Nadeem, Aamir Hanif, **Muhammad Rashid Waqas**, Zeeshan Ahmad, Muhammad Yahya Khan, Muhammad Rizwan Ashraf and Muhammad Naveed. 2023. Impact of elemental sulfur enriched with sulfur oxidizing bacteria on phosphorus availability and growth of wheat cultivated on calcareous soil. *Archives of Agronomy and Soil Science*. <https://doi.org/10.1080/03650340.2022.2099541>.
3. Ahmad, Z., **M.R. Waqas**, M.Y. Khan, A. Hameed, T. Athar, S.M. Nadeem, M. Nadeem and M. Shafique. 2023. Value-added organic fertilizer with salicylic acid and naphthyl acetic acid improves the tomato quality and productivity in saline-sodic conditions. *Soil Environ.* 42(1): 56-64.
4. Khan MY, Nadeem SM, Sohaib M, **Waqas MR**, Alotaibi F, Ali L, Zahir ZA and Al-Barakah FNI (2022) Potential of plant growth promoting bacterial consortium for improving the growth and yield of wheat under saline conditions. *Front. Microbiol.* 13:958522. [doi: 10.3389/fmicb.2022.958522](https://doi.org/10.3389/fmicb.2022.958522).
5. **Waqas, M.R.**, S.M. Nadeem, M.Y. Khan, Z. Ahmad, L. Ali, H.N. Asghar and A. Khalid. 2022. Phycoremediation of textile effluents with enhanced efficacy of biodiesel production by algae and potential use of remediated effluent for improving

growth of wheat. Environmental Science and Pollution Research.
<https://doi.org/10.1007/s11356-022-19140-y>.

6. Ali, L.; N. Manzoor, X. Li, M. Naveed, S.M. Nadeem, **M.R. Waqas**, M. Khalid, A. Abbas, T. Ahmed, and B. Li. 2021. Impact of Corn Cob-Derived Biochar in Altering Soil Quality, Biochemical Status and Improving Maize Growth under Drought Stress. *Agronomy* 2021, 11, 2300. <https://doi.org/10.3390/agronomy11112300>.
7. S. Perveen, M.N. Mushtaq, M. Yousaf, **M.R. Waqas**, M.R. Ashraf, M.I. Awan, S. Hashim and I. Koodkaew. 2019. Potent phenolic allelochemicals from *Celosia argentea* var. *crinata* L. leaf extract based on bioactive fractions. *Allelopathy Journal*. 48 (1): 27-34.
8. Khadija Mureed, Shamsa Kanwal, Azhar Hussain, Shamaila Noureen, Sabir Hussain, Maqshoof Ahmad and **Rashid Waqas**. 2018. Biodiesel production from algae grown on food industry wastewater. *Environmental Monitoring and Assessment*. 120:271
<https://doi.org/10.1007/s10661-018-6641-3>
9. Najam-us-Sahar, Muhammad Arshad, Ayesha Mustafa, Azhar Hussain, **Rashid Waqas**, Maqshoof Ahmad, M. Fakhar-u-Zaman Akhtar. **2017**. Effect of textile wastewater on growth and yield of wheat (*Triticum aestivum*). *Soil and Environment* 36 (1): 28-34.
10. Khakwani, A., M. Arshad, **R. Waqas**, M. B. Hussain, S. M. Nadeem and M. Imran. **2017**. Comparative Efficacy of Bio-organic and Mineral Phosphate on Growth, Yield and Economics of Wheat (*Triticum aestivum* L.) Grown by Different Methods. *Communication in Soil Science and Plant Analysis*. 48(1): 73-82.
11. **Waqas, R.**, M. Arshad, H.N. Asghar and M. Asghar, 2015. Optimization of factors for enhanced phycoremediation of reactive blue azo dye. *Int. J. Agric. Biol.*, 17: 803-808.