

CURRICULUM VITAE
MUHAMMAD NAVEED



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4. POSTAL ADDRESS: Institute of Soil & Environmental Sciences, University of Agriculture, Faisalabad -38040, Punjab, Pakistan.

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9. Education:

Degrees/Certificates obtained	Name and Place of University and college	Years attended		Percent Marks/ CGPA	Major Subjects
		From	To		
PhD	University of Natural Resources & Applied Sciences, Vienna, Austria	2009	2013	Grade 1 (Passed with distinction)	Soil Microbiology/ Ecology
Title of PhD Thesis: <i>“Maize endophytes – diversity, functionality and application potential”</i>					
M.Sc. (Hons) Soil Science	University of Agriculture, Faisalabad	2004	2006	82% / 3.86	Soil Microbiology & Biochemistry
Title of M.Sc. (Hons) Thesis: <i>“Potential of plant growth promoting rhizobacteria containing ACC-deaminase activity for improving growth and yield of wheat (Triticum aestivum L.) under fertilized condition”</i>					
B.Sc. (Hons) Agriculture	University of Agriculture, Faisalabad	2000	2004	80% / 3.85	Soil Science
Internship Title: <i>“Differential response of four mungbean cultivars to zinc, copper and boron”</i>					
Intermediate	Govt. College Jaranwala	1998	2000	Ist division	Pre-medical
Matric	Govt. High School, 97 GB, Jaranwala	1996	1998	Ist division	Science

10. PROFESSIONAL EXPERIENCE

1. Working as **Professor** from October 3rd, 2024, to date in the Institute of Soil & Environmental Sciences, University of Agriculture Faisalabad, Pakistan.
2. Working as **Associate Professor** from October 28th, 2021, to date in the Institute of Soil & Environmental Sciences, University of Agriculture Faisalabad, Pakistan.
3. Worked as **Assistant Professor** from May 2013 to October 2021 in the Institute of Soil & Environmental Sciences, University of Agriculture Faisalabad, Pakistan.
4. Worked as **Junior Scientist** from October 2012 to October 2013 in the Bioresource Unit, AIT Austrian Institute of Technology GmbH, Konrad-Lorenz-Strasse 24, 3430 Tulln, Austria.
5. Worked as **Assistant Research Officer** from December 2008 to October 2009 in the Soil Bacteriology Section, Agri. Biotechnology Research Institute, Ayub Agricultural Research Institute (AARI), Faisalabad.
6. Worked as **Research Associate** from December 2007 to April 2008 in a research project on “Phytoremediation of polycyclic aromatic hydrocarbon (PAHs) in association with microorganisms-containing ACC-deaminase enzymes” at the Institute of Soil & Environmental Sciences, University of Agriculture, Faisalabad.
7. Worked as **Research Fellow** from December 2006 to December 2007 in a research project on “Inducing salt tolerance in cereals through bacterial ACC-deaminase biotechnology” at the Institute of Soil & Environmental Sciences, University of Agriculture Faisalabad.

11. PROJECTS

Sr. No.	Project title	Funding agency	Amount (Rs. millions)	Status	Position
1	Seed inoculation with Rhizobium and Plant Growth Promoting Rhizobacteria (PGPR)	AVRDC	46,855 (EURO)	completed	Team member
2	Improving nitrogen use efficiency in agriculture using urease enzyme inhibitors	PARB	17.016 (Millions Rs.)	completed	Team leader
3	Development of a local and sustainable potting substrate for containerized nursery production	EFS	3.126 (Millions Rs.)	completed	Co-PI
	Synthesis, characterization and application of nanomaterials to inhibit the growth of bacteria	EFS	0.384 (Millions Rs.)	completed	Co-PI
5	Development of endophytic bacteria-mycorrhizae fungi consortium to mitigate the drought stress in chickpea	HEC (NRPU)	3.274239 (Millions Rs.)	completed	Co-PI
6	Weed suppression in wheat through weed specific microbial pathogens and their active metabolites	HEC (NRPU)	2.45 (Millions Rs.)	completed	Co-PI

7	Development of bio-herbicide containing allelopathic bacteria for biocontrol of weed of wheat	HEC (TDF)	13.846 (Millions Rs.)	completed	Co-PI
8	Biological control of animal ticks: Sustainable solution for improved animal productivity	ALP/ PARC	3.622 (Millions Rs.)	completed	Co-PI
9	Improving hydrocarbons bioremediation and crop productivity by microbial resources	HEC (NRPU)	3.428208 (Millions Rs.)	completed	Co-PI
10	Perspectives of using biologically augmented acidified product for enhancing phosphorus uptake, efficiency and production of cereals in calcareous soil	HEC (NRPU)	3.739671 (Millions Rs.)	completed	P.I.
11	Biochar application to combat root-knot nematodes in tomato with emphasis on activation of defense related genes	HEC (NRPU)	3.009336 (Millions Rs.)	completed	Co-PI
12	Development of bioherbicides containing allelopathic bacteria for weeds suppression in direct-seeded rice	PARB	5.992 (Million Rs.)	completed	Team Leader
13	Recycling of banana residues for biochar and compost production for soil carbon sequestration and better crop production	ALP	3.493 (Million Rs.)	Final report submitted	Co-PI
14	Treatment of abattoir sludge for the control of parasitic infection and efficient usage as organic fertilizer	PSF	6.462,057 (Million Rs.)	2 nd year in progress	Co-PI
15	Acidulated value-added product for bioactivation of micronutrients to improve yield and quality of wheat and maize	EFS	4.717 (Million Rs.)	1 st Year in progress	PI
16	Seed pelleting technology for enhancing the performance of tomato and high value vegetables crops	HEC (RTTF)	9.123 (Million Rs.)	completed	Co-PI
17	Biogas plant design, construction, operation, maintenance and application of biogas as a vehicle fuel and organic fertilizer	Pak-Suzuki-UAF	272.425 (Million Rs.)	1 st year in progress	Team Leader organic fertilizer

12. STUDENT ADVISED AS SUPERVISOR

A) PhD students	3 (completed) 5 (in progress)
B) MSc students	60 (completed) 12 (in progress)

13. RESEARCH DISCIPLINES OF INTEREST

- Bacterial seed endophyte
- Impregnation of fertilizers with endophyte
- Metabolic potential of endophyte
- Microbial ecology/diversity
- Recycling of organic waste
- Formulation of Bio Available Phosphate Fertilizer
- Biochar production and utilization
- Plant growth under stress conditions
- Recycling Phosphorus from wastewater

14. PUBLICATIONS

A. PATENT

1. Mitter, B., A. Sessitsch and **M. Naveed**. 2019. Method for Producing Plant Seed Containing Endophytic Micro-Organisms (**Published as EP 2676536 A1; EP 2866541 A1; WO 2013190082 A1; CA 2877422 A1; US20150335029 A1; EP2866541B1**).
2. Mitter, M., **M. Naveed**, T. Berninger, S. Compant and A. Sessitsch. 2015. Plants Containing Beneficial Endophytes (**Publication No. CA2935218A1, EP3086646A2, EP3086646A4, WO2015100431A2, WO2015100431A3, US2016/0338360A1; US10271554B2**).
3. Mitter, M., **M. Naveed**, T. Berninger, S. Compant and A. Sessitsch. 2015. Method for Propagating Microorganisms within Plant Bioreactors and Stably Storing Microorganisms within Agricultural Seeds (**Publication No. WO2015100432 A2; WO2015100432A3; WO2015100432A8, US2016/0330976A1, US10362787B2**).

B. Books

1. Mustafa, A. and **M. Naveed**. 2024. Soil Contamination - Recent Advances and Future Perspectives. Intech Open, London, United Kingdom. Pp. 196.

C. Book Chapters:

1. Aslam, A., **M. Naveed**, S. Aslam, E. Amjad. A. Amjad and A; Ditta. 2024. Remediation approached for heavy metals contaminated soils. In: Bio-organic Amendments for Heavy Metal Remediation: Water, Soil and Plant Approaches and Technologies. A. Husen, A. Ditta, M. Imtiaz, M. Iqbal, S. Mahmood and M.S. Tu (Eds.), Elsevier Inc., Cambridge, MA, USA. Pp. 459-477.
2. Qadir, M.F., K.S. Khan, **M. Naveed**, T. Raza, N.S. Eash. 2024. Potential eco-friendly techniques for water, soil, and waste management. In: Environmental Nexus for

- Resource Management. H.S. Jatav, T. Minkina, S.K. Singh, B. Singh, V.D. Rajput (eds), CRC Press, Boca Raton, FL, USA. Pp. 18.
3. Qadir, M.F., K.S. Khan, **M. Naveed**, N. Younas, M. Yousuf, M.H. Khalil, A.Q. Maria, T. Raza and N.S. Eash. 2024. Potential role of healthy soil for global environment. In: Environmental Nexus for Resource Management. H.S. Jatav, T. Minkina, S.K. Singh, B. Singh, V.D. Rajput (eds), CRC Press, Boca Raton, FL, USA. Pp. 22.
 4. Mumtaz, T., M.F. Qadir, A.Q. Maria, R. Ahmad, I.A. Ahmad, M. Iqbal and **M. Naveed**. 2024. Waste Management and Utilization for Soil Sustainability Goals. In: Soil Health Management for Sustainable Development Goals, H.S. Jatav and T. Raza (Eds.), NIPA® Genx Electronic Resources & Solutions Pvt. Ltd., New Delhi, India. Pp. 136-158.
 5. Ali, H., S. Ali, S. Baloch, F. Naheed, E. Amjad, Q. Saeed, **M. Naveed** and A. Mustafa. 2024. Biochar application for soil quality improvement. In: Soil Contamination - Recent Advances and Future Perspectives, A. Mustafa and M. Naveed (Eds.), Intech Open, London, United Kingdom. Pp. 1-26.
 6. Subhani, Z., F. Batool, **M. Naveed**, M. Shabbir and L. Noor. 2023. Salmonella resistance in broiler chicken: risk to human health. In: S. Altaf, A. Khan and R.Z. Abbas (eds), Zoonosis, Unique Scientific Publishers, Faisalabad, Pakistan, Vol 4: 100-120. <https://doi.org/10.47278/book.zoon/2023.141>.
 7. Abbas, T., A. Mustafa, S. Siddique, **M. Naveed**, J. Zhang, M.Z. Aziz, K. Shehzad, B. Abbasi and M.F. Sardar. 2020. Bio-Pesticides: Importance and Challenges. In: Pesticide Contamination in Freshwater and Soil Environs, M.A. Mahmood, K.R. Hakeem, R.A. Bhat and G.H. Dar (Eds.), CRC Press, Boca Raton, FL, USA.
 8. Mustafa, A., **M. Naveed**, Q. Saeed, M.N. Ashraf, A. Hussain, T. Abbas, M. Kamran, Nan-Sun and X. Minggang. 2019. Application potentials of plant growth promoting rhizobacteria and fungi as an alternative to conventional weed control methods. In: Crop Production, InTech Publisher, Germany. **DOI: 10.5772/intechopen.86339**.
 9. Aziz, M.Z., **M. Naveed**, T. Abbas, S. Siddique and M. Yaseen. 2019. Alternative fertilizers and sustainable agriculture. In: Innovations in Sustainable Agriculture, M. Farooq and M. Pisante, (Eds.), Springer International Publishing AG, Switzerland. Pp. 213-248.
 10. Hussain, A., Z.A. Zahir, H.N. Asghar, M. Ahmad, M. Jamil, **M. Naveed**, and M.F.U.Z. Akhtar. 2018. Zinc solubilizing bacteria for zinc biofortification in cereals: A step toward sustainable nutritional security. In: Role of Rhizospheric Microbes in Soil, V. S. Meena (ed.), Springer Nature Singapore. Pp. 203-228.
 11. **Naveed, M.**, M.B. Hussain, I. Mehboob and Z.A. Zahir. 2017b. Rhizobial amelioration of drought stress in legumes. In: Microbes for Legumes Improvement, A. Zaidi, M.S. Khan and J. Musarrat (Eds.), 2nd Edition, Springer International Publishing AG, Switzerland. Pp. 341-365.
 12. **Naveed, M.**, M.Z. Aziz and M. Yaseen. 2017a. Perspectives of using endophytic microbes for legume improvement. In: Microbes for Legumes Improvement, A. Zaidi, M.S. Khan and J. Musarrat (Eds.), 2nd Edition, Springer International Publishing AG, Switzerland. Pp. 277-299.
 13. Ali, M.A., **M. Naveed**, A. Mustafa and A. Abbas. 2017. The good, the bad and the ugly of rhizosphere microbiome. In: Probiotics and Plant Health. V. Kumar, M. Kumar, R. Parsad and D.K. Choudhary (Eds.), Springer Publishers, Singapore, Pp. 253-290.

14. Saleem, M., H.N. Asghar, W. Ahmad, M.A. Akram, M.U. Saleem, M.Y. Khan, **M. Naveed** and Z.A. Zahir. 2017. Prospects of bacterial-assisted remediation of metal-contaminated soils. In: *Agro-Environmental Sustainability, Vol. 2: Managing Environmental Pollution*, J.S. Singh, G. Seneviratne (Eds.), Springer, Switzerland. Pp. 41-58.
15. Ramzani, P.M., M. Khalid, **M. Naveed**, A. Irum, Waqas-ud-Din Khan and S. Kausar. 2016. Iron biofortification of cereals grown under calcareous soils: Problems and solutions. In: *Soil Science: Agricultural and Environmental Prospectives*. K.R. Hakeem, J. Akhtar and M. Sabir (Eds.), Springer, Switzerland. Pp. 231-258.
16. Afzal, I., H. Rehman, **M. Naveed** and S.M.A. Basra. 2016. Recent advances in seed enhancements. In: *New Challenges in Seed Biology - Basic and Translational Research Driving Seed Technology*. S. Araujo and A. Balestrazzi (Eds.), In Tech Publishers. DOI: 10.5772/64791.
17. Asghar, H.N., H.M. Rafique, Z.A. Zahir, M.Y. Khan, M.J. Akhtar, **M. Naveed** and M. Saleem. 2016. Petroleum hydrocarbons-contaminated soils: Remediation approaches. In: *Soil Science: Agricultural and Environmental Prospectives*. K.R. Hakeem, J. Akhtar and M. Sabir (Eds.), Springer, Switzerland. Pp. 105-130.
18. Ahmad, M., S.M. Nadeem, **M. Naveed** and Z.A. Zahir. 2016. Potassium Solubilizing Bacteria and their Application in Agriculture. In: *Potassium Solubilizing Microorganisms for Sustainable Agriculture*. V.S. Meena, J.P. Verma, B.R. Maurya and R.S. Meena. (Eds.). Springer, The Netherlands. **Pp. 293-313.**
19. **Naveed, M.**, I. Mehboob, M.B. Hussain and Z.A. Zahir. 2015. Perspectives of rhizobial inoculation for sustainable crop production. In: *Plant Microbe Symbiosis- Applied Facets*, N.K. Arora (Ed.), Springer, The Netherlands. **Pp. 209-239.**
20. Nadeem, S.M., **M. Naveed**, M. Ahmad and Z.A. Zahir. 2015. Rhizosphere bacteria for crop production and improvement of stress tolerance: Mechanisms of action, applications, and future prospects. In: *Plant Microbe Symbiosis: Applied Facets*, N.K. Arora (Ed.), Springer, The Netherlands. **Pp. 1-36.**
21. Nadeem, S.M., **M. Naveed**, Z.A. Zahir and H.N. Asghar. 2013. Plant-microbe interactions for sustainable agriculture: Fundamentals and recent advances. In: *Plant Microbe Symbiosis- Fundamentals and Advances*, N.K. Arora (Ed.), Springer, The Netherlands, **Pp. 51-103.**
22. Mehboob, I., **M. Naveed**, Z.A. Zahir and A. Sessitsch. 2013. Potential of rhizosphere bacteria for improving *Rhizobium* - legumes symbiosis. In: *Plant Microbe Symbiosis. Fundamentals and Advances*, N.K. Arora (Ed.), Springer, The Netherlands, **Pp. 305-349.**
23. Mehboob, I., **M. Naveed**, Z.A. Zahir and M. Ashraf. 2012. Potential of rhizobia for sustainable production of non-legumes. In: *Crop Production for Agricultural Improvement*. M. Ashraf, M. Öztürk, M.S.A. Ahmad and A. Aksoy (Eds), Springer, The Netherlands, **Pp. 659-704.**

D. Review Articles:

1. Saeed, Q., A. Mustafa, S. Ali, L.H. Tobiloba, A. Rebi, S. B. Baloch, M.Z. Mumtaz, **M. Naveed**, M. Farooq and X. Lu. 2025. Advancing crop resilience through nucleic acid innovations: rhizosphere engineering for food security and climate adaptation. **International Journal of Biological Macromolecules 310: 143194.**

2. Ali, S., S.B. Baloch, J. Bernas, P. Konvalina, E.F. Onyebuchi, **M. Naveed**, H. Ali, Z.H. Jamali, M.T.K. Nezhad and A. Mustafa. 2023. Phytotoxicity of radionuclides: A review of sources, impacts and remediation strategies. **Environmental Research** **240**: 117479.
3. Mustafa, A., U. Zulfiqar, M.Z. Mumtaz, M. Radziemska, F.U. Haider, J. Holatko, T. Hammershmiedt, **M. Naveed**, Hassan Ali, A. Kintl, Q. Saeed, J. Kucerik and M. Brtnicky. 2023. Nickel (Ni) phytotoxicity and detoxification mechanisms: A review. **Chemosphere** **328**: 138574.
4. Haider, F.U., X. Wang, U. Zulfiqar, M. Farooq, S. Hussain, T. Mehmood, **M. Naveed**, Y. Li, C. Liqun, Q. Saeed, I. Ahmad and A. Mustafa. 2022. Biochar application for remediation of organic toxic pollutants in contaminated soils; An update. **Ecotoxicology and Environmental Safety** **248**: 114322.
5. Zulfiqar, U., W. Jiang, W. Xiukang, S. Hussain, M. Ahmad, M.F. Maqsood, N. Ali, M. Ishfaq, M. Kaleem, F.U. Haider, N. Farooq, **M. Naveed**, J. Kucerik, M. Brtnicky and A. Mustafa. 2022. Cadmium phytotoxicity, tolerance, and advanced remediation approaches in agricultural soils; A comprehensive review. **Frontiers in Plant Science** **13**: 773815. doi: 10.3389/fpls.2022.773815.
6. Samreen, T., **M. Naveed**, M.Z. Nazir, H.N. Asghar, M.I. Khan, Z.A. Zahir, S. Kanwal, Jeevan B, D. Sharma, V.S. Meena and S.K. Meena. 2021. Seed associated bacterial and fungal endophytes: Diversity, life cycle, transmission and application potential. **Applied Soil Ecology** **168**: 104191.
7. Saeed, Q., W. Xiukang, F.U. Haider, J. Kučerik, M.Z. Mumtaz, J. Holatko, M. Naseem, A. Kintl, M. Ejaz, **M. Naveed**, M. Brtnicky and A. Mustafa. 2021. Rhizosphere bacteria in plant growth promotion, biocontrol, and bioremediation of contaminated sites: A comprehensive review of effects and mechanisms. **International Journal of Molecular Sciences** **22(19)**: 10529.
8. Haider, F.U., M. Ejaz, S.A. Cheema, M.I. Khan, B. Zhao, C. Liqun, M.A. Salim, **M. Naveed**, N. Khan, A. Núñez-Delgado and A. Mustafa. 2021. Phytotoxicity of petroleum hydrocarbons: Sources, impacts and remediation strategies. **Environmental Research**, **197**: 111031. <https://doi.org/10.1016/j.envres.2021.111031>.
9. Sattar, A., **M. Naveed**, M. Ali, Z.A. Zahir, S.M. Nadeem, M. Yaseen, V.S. Meena, M. Farooq, R. Singh, M. Rahman and H.N. Meena. 2019. Perspectives of potassium solubilizing microbes in sustainable food production system: A review. **Applied Soil Ecology** **133**: 146-159.
10. Abbas, T., Z.A. Zahir, **M. Naveed** and R.J. Kramer. 2017. Limitations of existing weed control practices necessitate development of alternative techniques based on biological approaches. **Advances in Agronomy** **147**: 239-280.
11. Fatima, K., A. Imran, **M. Naveed** and M. Afzal. 2017. Plant-bacteria synergism: An innovative approach for the remediation of crude oil contaminated soils. **Soil & Environment** **36(2)**: 93-113.
12. Meena, V.S., S.K. Meena, J.P. Verma, A. Kumar, A. Aeron, P.K. Mishra, J.K. Bisht, A. Pattanayak, **M. Naveed** and M.L. Dotaniya. 2017. Plant beneficial rhizospheric microorganism (PBRM) strategies to improve nutrients use efficiency: A review. **Ecological Engineering** **107**: 8–32.

13. Nadeem, S.M., **M. Naveed**, M. Ayyub, M.Y. Khan, M. Ahmad and Z.A. Zahir. 2016. Potential, limitations and future prospects of *Pseudomonas* spp. for sustainable agriculture and environment: A Review. **Soil & Environment** 35(2): 106-145.
14. **Naveed, M.**, I. Mehboob, M.A. Shakir, M.B. Hussain and M. Farooq. 2015. Biofertilizers status in Pakistan: initiatives and limitations. **International Journal of Agriculture and Biology** 17: 411-429. (IF, 0.902; Citation 3)
15. Mitter, B., G. Brader, M. Afzal, S. Compant, **M. Naveed**, F. Trognitz and A. Sessitsch. 2013. Advances in elucidating beneficial interactions between plants, soil and bacteria. **Advances in Agronomy** 121: 381-445. (IF, 5.021; Citation 3)
16. Trognitz, F., B. Mitter, **M. Naveed**, G. Brader and Angela Sessitsch. 2012. Use of beneficial microorganisms for crop improvement. **Tagung der Vereinigung der Pflanzenzüchter und Saatgutkaufleute Österreichs** 63: 29-31.
17. Nadeem, S.M., Z.A. Zahir, **M. Naveed** and M. Ashraf. 2010. Microbial ACC-deaminase: Prospects and applications for inducing salt tolerance in plants. **Critical Reviews in Plant Sciences** 29(6): 360-393. (IF, 5.292; Citation 6)
18. Mehboob, I., **M. Naveed** and Z.A. Zahir. 2009. Rhizobial association with non-legumes: Mechanisms and applications. **Critical Reviews in Plant Sciences** 28(6): 432-456. (IF, 5.292; Citation 10)

E. Research Papers

Published:

1. Brtnicky, M., A. Mustafa, J. Holatko, A. Gunina, G. Ondrasek, **M. Naveed**, T. Hammerschmiedt, E. Kamenikova, S. Alamri, M.H. Siddique, A. Kintl, T. Baltazar, O. Malicek and J. Kucerik. 2025. Soil texture-driven modulation of poly-3-hydroxybutyrate (P3HB) biodegradation: Microbial shifts, and trade-offs between nutrient availability and lettuce growth. **Environmental Research** 278: 121618 <https://doi.org/10.1016/j.envres.2025.121618>.
2. Brtnicky, M., J. Kucerik, P. Skarpa, A. Mustafa, M.H. Siddiqui, T. Hammerschmidt, **M. Naveed**, A. Kintl, T. Baltazar and J. Holatko. 2025. Dose-dependent effects of poly-3-hydroxybutyrate on soil quality and maize development: A trade-off between soil quality and crop productivity. **Ecotoxicology and Environmental Safety** 295, 15: 118131.
3. Holatko, J., J. Kucerik, A. Mustafa, K. Lonova, M.H. Siddiqui, **M. Naveed**, T. Hammerschmiedt, A. Kintl, O. Malicek, T. Chorazy, T. Baltazar and M. Brtnicky. 2025. Influence of biochar feedstock blends on soil enzyme activity, nutrient cycling, lettuce biomass accumulation and photosynthesis. **BMC Plant Biology** 25: 323.
4. Rafique, M., **M. Naveed**, M.Z. Mumtaz, A. Niaz, S. Alamri, S. Rehman, M.H. Siddiqui and A. Mustafa. 2025. Tripartite microbial augmentation of *Bradyrhizobium diazoefficiens*, *Bacillus* sp. MN54, and *Piriformospora indica* on growth, yield, and nutrient profiling of soybean (*Glycine max* L.). **Frontiers in Microbiology** 15: 1437489. doi: 10.3389/fmicb.2024.1437489.
5. Ali, F., I. Afzal, A. Khaliq and **M. Naveed**. 2025. Predicting germination and emergence patterns of *Leptochloa chinensis* using population based threshold models. **Advances in Weed Science**. DOI: 10.51694/AdvWeedSci/2024;42:00036.
6. Khan, M.I., Q. Farooq, M. Ali, M.H. Ali and **M. Naveed**. 2025. Integrated effects of microbial culture and nitrogen application on phytoremediation, physiology and

- growth of maize in glyphosate-contaminated soil. **International Journal of Phytoremediation**. DOI: 10.1080/15226514.2025.2464625.
7. Naseem, Z., **M. Naveed**, S. Nawaz, R.A. Saeed, M.H. Siddiqui, A. Mustafa, A. Núñez-Delgado. 2025. Addressing dye phytotoxicity and soil contamination: The dual action of chemically synthesized zinc nanoparticles in simultaneous adsorption and soil health improvement. **Journal of Environmental Management** 375: 124358.
 8. Hasnain, M., Q. Nazir, A. Dar, A. Hussain, S. Mahmood, I. Saleem, H.T. Ahmad, S.S.H. Shah, M.A. Ali, **M. Naveed**, R. Iqbal, A-Z.M.A. Mustafa, M.S. Elshikh and A. Ditta. 2025. Improving maize physiological attributes by regulating urease activity and zinc availability in rhizosphere through bioactivated zinc-coated urea (Engro Zabardast Urea). **Polish Journal of Environmental Studies** 34(3): 2687-2695.
 9. Ali, F., I. Afzal, A. Khaliq and **M. Naveed**. 2024. Predicting germination and emergence patterns of *Leptochloa chinensis* using population based threshold models. **Advances in Weed Science** 2024; 42: e020240074.
 10. Mazaffar, U., **M. Naveed**, Z. Naseem, I. Abid, K.Z. Amir, S. Alamri, M. Siddique, M. Brtnicky and A. Mustafa. 2024. Enhanced cadmium immobilization in soil using Fe- and Zn-doped biochar: Mechanisms and safety implications for *Cicer arietinum* L. **Chemosphere** 368: 143797.
 11. **Naveed, M.**, I. Abid, F. Mustafa, H.R. Ahmad, S. Alamri, M.H. Siddiqui, A.T. Alfagham and A. Mustafa. 2024. Microbiologically modified bioorganic fertilizer and metal-tolerant *Bacillus* sp. MN54 regulate the nutrient homeostasis and boost phytoextraction efficiency of Mustard (*Brassica juncea* L.) in nickel-contaminated soil. **Chemical and Biological Technologies in Agriculture** 11: 168.
 12. Jabran, M., M.A. Ali, T. Acet, A. Zahoor, A. Abbas, U. Arshad, M. Mubashar, **M. Naveed**, A. Ghafoor and L. Gao. 2024 Growth regulation in bread wheat via novel bioinoculant formulation. **BMC Plant Biology** 24: 1039.
 13. Rizwan, H.M., **M. Naveed**, M.S. Sajid, N. Nazish, M. Younus, M. Raza, M. Maqbool, M.H. Khalil, D. Fouad and F.S. Ataya. 2024. Enhancing agricultural sustainability through optimization of the slaughterhouse sludge compost for elimination of parasites and coliforms. **Scientific Reports** 14: 23953.
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- nutrient use efficiency of wheat (*Triticum aestivum*). **Applied Microbiology and Biotechnology** 79(1): 147-155. (IF, 3.811; Citation 42).
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15. PROCEEDINGS PUBLISHED

1. Hussain, M.B., S. Mahmood, Z.A. Zahir, **M. Naveed**, M. Imran, I. Ahmad N. Ahmad and H. Nawaz. 2015. Improving drought stress resilience in maize (*Zea mays* L.) through *Rhizobium phaseoli* and *Mesorhizobium ciceri* inoculation. In: International Conference on Water Resources and the Arid Environments (ICWRAE 7), 4-6 December 2016, Riyadh, Saudi Arabia. Pp. 549-559
2. Nadeem, S.M., I. Hussain, **M. Naveed**, H.N. Asghar, Z.A. Zahir and M. Arshad. 2009. Performance of PGPR containing ACC-deaminase activity for improving growth of maize under saline conditions. In: Proceedings of Int. symposium "Microbial Technologies for Sustainable Agriculture: Exploring the hidden potential of microbes", at Nuclear Institute for Biotechnology and Genetic Engineering, March 12-16, 2009. Pp. 217-219.
3. Ahmad, M.J., **M. Naveed**, M.A. Qureshi and M. Rashid. 2009. Cumulative effect of *Mesorhizobium ciceri* and *Azotobacter chroococcum* on the growth, yield and nodulation in chickpea under rainfed conditions. In: Third World Academy of Sciences, Young Regional Scientific Conference. November 2-5, 2009. Putra Jaya, Malaysia.
4. Zahir, Z.A., M. Zafar-ul-Hye, **M. Naveed** and S.M. Shahzad. 2009. Comparative effectiveness of *Pseudomonas* and *Serratia* sp. for co-inoculation with *Rhizobium leguminosarum* to improve growth, nodulation and yield of lentil. In: Third World Academy of Sciences, Young Regional Scientific Conference. November 2-5, 2009. Putra Jaya, Malaysia.
5. Zahir, Z.A., A. Munir, **M. Naveed** and M. Arshad. 2009. Microbial ACC-deaminase - an innovative approach for improving water use efficiency in peas (*Pisum sativum*). In: Proceeding of "The International Conference on Water Conservation in Arid Regions". October 12-14, 2009. King Abdul Aziz University, Jeddah, Saudi Arabia.

6. Ahmad, R., M. Arshad, Z.A. Zahir, M. Hassan and **M. Naveed**. 2008. Integrated use of nitrogen fertilizer and compost for sustainable agriculture. pp. 437-442. In: Proceeding of the sixth International Symposium Agro Environment "Natural Resources Conservation, Use & Sustainability". April 28th to May 1st, 2008, Turkey, 566p.
7. Ahmad, R., M. Arshad, M. Aslam, Z.A. Zahir and **M. Naveed**. 2007. Nitrogen enrichment of composted organic waste material for improving growth, yield and N uptake of wheat (*Triticum aestivum*). The 15th Nitrogen workshop "Towards a better efficiency in N use", A.D.B. Sera, M.R.T. Esmatges and J.M.V. Mir (Eds.), Spain, pp. 443-445.

16. CONFERENCES / SEMINARS / PRESENTATIONS / LECTURES

1. **Naveed, M.**, S. Yousaf, M. Afzal, Z.A. Zahir, B. Mitter and A. Sessitsch. 2014. Inoculum density and genotype effects on growth promotion and endophytic colonization of potato (*Solanum tuberosum*) inoculated with *Burtholderia phytofirmans* PsJN. **Oral Presentation**. In: Soil Management in Changing Climate, 15th Congr. Soil Sci. Islamabad, March 18-20, 2014.
2. **Naveed, M.**, Mitter and A. Sessitsch. 2012. Microbial inoculants for crop enhancement"; **Poster Presentation**: AIT Poster Award Competition, Wien; 04.06.2012. Austria.
3. **Naveed, M.**, B. Mitter, T.G. Reichenauer and A. Sessitsch. 2012. Endophytic colonization of bacteria induce drought-stress tolerance in maize. **Poster Presentation**: AIT/BOKU Seminar series, Tulln; 20.06.2012. Austria.
4. **Naveed, M.** 2012. Improving maize biomass and yield through inoculation with *Burkholderia phytofirmans* strain PsJN. **Oral Presentation**: AIT/BOKU Seminar series, Tulln; 24.01.2012. Austria.
5. Mitter, **M. Naveed**, R. Taucher, G. Reichenberger, A. Sessitsch. 2012. Bacterial inoculants for sustainable crop production. Lecture: ABIM Annual Biocontrol Industry Meeting, Lucerne Switzerland; 22.11.2012-24.11.2012, Switzerland.
6. Presentation of a technical paper at the 1st World Congress on the use of 'Biostimulants in Agriculture' 26-29 November 2012, Strasbourg Congress Centre, France.
7. Presentation of a technical paper at the Endophytes: From discovery to application. COST Action FA1103: Endophytes in biotechnology and agriculture. Workshop 14-16 November 2012, Fondazione Edmund Mach, Italy.
8. Presentation of a technical paper at the 1st European Endophyte workshop "Current Aspects of European Endophyte Research", 28-30 March, 2012, University of Reims, Reims, France
9. Presentation of a technical Paper at the 12th Congress of Soil Science, 20-23 October, 2008 at N.W.F.P. Agriculture University, Peshawar.
10. Presentation of a technical Paper at the 11th Congress of Soil Science, 28-31 March, 2006 at National Agriculture Research Center (NARC), Islamabad.
11. Paper presented at Ist International Egyptian Jordanian Conference on "Biotechnology and Sustainable Development: Current Status and Future Scenarios". National Research centre, Cairo, Egypt, 11-14 December 2006. "Microbial ACC-deaminase activity for improving growth and yield of wheat by Zahir, Z.A., **M. Naveed** and M. Arshad.

12. Presentation on the topic “Composting Of Slaughter House Sludge For The Control Of Parasitic Infection” in the seminar on “Strategic parasitic Control” 30-11-2023 at Department of Pathobiology, KBCMA, CVAS, Narowal, UVAS.
13. Presentation on research commercialization as invited speaker in Introductory session for UAF Faculty and Researchers. 15 June 2023 arranged by NIC Faisalabad collaborating with ORIC, UAF.
14. Presenting as an invited speaker in the Meeting of Stakeholder/ Industrial Linkages Committee on 25-10-2023 arranged by ISES, UAF.
15. Member of scientific and technical committee member of International Wheat Conference 2022, 19-20 October 2022 at CAS, AFS, UAF.
16. Presenting as an invited speaker on title “Plant associated endophytic bacteria: their diversity and application potential” in one day seminar on “Exploitation of Plant Growth Promoting Microorganisms for Sustainable Agriculture” 1st April 2022, at STC Hall, New Campus, GCUF.
17. Invited as a resource person in workshop CUM seminar on Ticks-Tick-borne disease. 9-10 June 2022. At FVS department of parasitology, UAF.
18. Invited speaker to demonstrate on “Vegetable seed production technology to stakeholders” on 24 June 2024. At IHS, UAF.
19. Invited speaker at 3rd Pakistan seed congress “Seed Innovation for transforming Agriculture. On 28-30 April 2024.
20. Resource person in the workshop on “Seed coating and pelleting technologies” on 25 June 2024 at University of Agriculture, Faisalabad.
21. Presenting as an invited speaker on “Unlocking the potential of biofilm forming plant growth-promoting bacteria for growth and yield enhancement in wheat” (online) in 2nd International Forum for Agri-Biotechnology. on 4-5 July 2023, at Astana, Kazakhstan.
22. Invited speaker in Thanks-Agri tech Expo 2023, 14 January 2023 by Faisalabad Women chamber of commerce and industry.
23. Participation in training workshop by National Agriculture education accreditation council, HEC, Pakistan. 1st January 2024.

17. Awards / Scholarships

1. **Salimuzzaman Siddiqui Prize** for Applied Science – Technology in Agricultural Sciences (under 40) for the year 2019 from Pakistan Academy of Sciences, Islamabad, Pakistan.
2. **Ernst Mach Follow-up Grant (EZA)** 1st September to 30th November 2018 by the Austrian Agency for International Cooperation in Education & Research (OeAD-GmbH), Centre for International Cooperation & Mobility (ICM), Vienna Austria.
3. **Young Development Leader Award in Agriculture** 2016, Ministry of Planning, Development, and Special Initiative, Islamabad, Pakistan.
4. **Research Productivity Award** 2014. Pakistan Council for Science and Technology (PCST), Islamabad, Pakistan.
5. The Gregor Mendel Society award "**Visionary ideas on genetics**" The future of the global supply of food and biomass resources, 2012. Gregor-Mendel Society, Vienna, Austria.
6. Third Place for Outstanding **Poster Presentation in AIT Poster Awards** 2012, Vienna, Austria.

7. Overseas Ph.D. Scholarship by Higher Education Commission (HEC), Islamabad, Pakistan.

18. REFEREES CONTACTS (Name, Position and Address)

(1) Dr. Angela Sessitsch (Supervisor)

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