

CURRICULUM VITAE OF PROF. DR. MUHAMMAD SHARIF



- 1. NAME:** Prof. Dr. Muhammad Sharif
- 2. ADDRESS:** Department of Soil and Environmental Sciences
University of Agriculture Peshawar, Pakistan
Telephone: 091-9221023
Email: msharif645@yahoo.com & msharif645@aup.edu.pk
- 3. FIELD OF SPECIALIZATION:** Soil Microbiology and Plants Nutrition with emphases on enhancement of phosphorus solubilization through biological means.
- 4. EDUCATION** Post Doc (F.R. Germany)
PhD (PaK)
M.S. (F.R. Germany)
M.Sc (Hons) (Pak)
- 5. HEC APPROVED SUPERVISOR:** Yes
- 6. PROFESSIONAL RESPONSIBILITY**

Teaching courses of Soil and Environmental Sciences at graduate and postgraduate levels, conduct research projects and activities on current national and international issues, supervise students research activities and to publish data of the conducted research work in various scientific journals with international repute with main interests in the utilization of soil natural resources in crop production for sustainable yield

7. STUDENTS SUPERVISION

Supervised / Supervising four PhD students as major supervisor. Two students have completed their PhD degree program, while the research work of other two students is currently in progress. Member supervisory committee of 06 PhD students, 03 Of them have completed their degree program, while the research work of 03 students is currently in progress. Supervised 20 students of M.Sc (Hons) as major supervisor who have completed their degree program, while the work of 06 M.Sc (Hons) students is in progress. Member supervisory committee of 30 M.Sc (Hons) students, 23 Of them have completed their degree program, while the research work of the remaining students is currently in progress.

8. MEMBERSHIPS OF PROFESSIONAL SOCITIES

- Member Soil Science Society of Pakistan
- Member German Alumni Foundation, Pakistan
- Member International Society of Mycorrhizologists.
- Member International Advisory Committee of International Foundation for Sustainable Development in Africa and Asia (IFSDA)

9. RESEARCH PROJECTS COMPLETED

- i). Principal Investigator of ALP- PARC research project on “Solubility enhancement of phosphorus from rock phosphate with budget cost of RS 3.867 million from 2010 to 2013.
- ii) Principal Investigator of ALP-PARC project on “Field Evaluation of Arbuscular Mycorrhizal Fungi and Their Significance in Wheat-Maize Cropping System under Different Soil Series of NWFP” with budget cost of RS. 1.411 million from 2004 to 2008.
- iii). Co. P.I. in HEC / UAP funded project on “Strengthening and up gradation of library in the Dept. of Soil & Environmental Sciences, The University of Agriculture Peshawar” 2014.
- iv). Co. P.I. in HEC/AUP funded project on “Utilization of Sugarcane Wastes with Humic Acid for Increased Crop Production” 2003 to 2004.
- v). Co. P.I. in HEC/AUP funded project on “Effect of Different Methods of Application of Lignitic Coal Derived Humic Acid on the production of Maize/Wheat crops” 2004 to 2005.
- vi). Co. P.I. in HEC/AUP funded project on “Effect of Lignitic Coal Derived Humic Acid Alone and in Combination with Chemical Fertilizers on the Growth and Yield of Maize and Wheat Crops in Alkaline Soil” 2001 to 2002.

10. AWARDS/HONORERS/RECOGNITIONS

- i). Award received for international level course on soil amelioration by FAO and Egyptian International Center for Agriculture Cairo, Egypt from April to June, 1993.
- ii). Award received for German language course by German Academic Exchange Services (DAAD) from April to September, 1994
- iii). Award received for Post Graduate Studies in Agriculture by German Academic Exchange Services (DAAD) from October, 1994 to December, 1996.
- iv). Award received for Post Doctoral Training by German Academic Exchange Services (DAAD) from June to August, 2004.
- v). Award received for Post Doctoral Training by Higher Education Commission of Pakistan (HEC) from November, 2006 to October, 2007.
- vi). Award received for a study visit to Germany by German Academic Exchange Services (DAAD) from September to October, 2010.

PUBLICATIONS

(Publications list is attached)

PUBLICATIONS LIST OF DR. MUHAMMAD SHARIF

A. IMPACT FACTORS JOURNALS

1. Kamran Azeem, Shad Khan Khalil, Farmanullah Khan, Shahenshah, Abdul Qahar, **Muhammad Sharif** and Muhammad Zamin. 2014. Phenology, Yield and Yield Components of Maize as Affected by Humic Acid and Nitrogen Journal of Agricultural Science; Vol. 5, No. 7: 1995-2004.
2. Asif Khan, **Muhammad Sharif**, A. Ali, S.N.M Shah, I.A Mian, F. Wahid1 B. Jan, M. Adnan, S. Nawaz and N. Ali. 2014. Potential of AM fungi in phytoremediation of heavy metals and their effect on yield of wheat crop. American Journal of Plant Sciences, 5: 1578-1586.
3. I. Khan, H. Zada, S.K. Khalil, **Muhammad Sharif** and Z. Mehmood. 2014. Biological control of sugar can top-borer, *Scirpophaga excerptalis* (Walker) (Lepidoptera: Crambidae) through different release levels of *Telenomus beneficiens* (Zehntner) (Hymenoptera: Scelionidae). Journal of Agricultural Sciences and Technology, 16: 497-503.
4. Amjad Ali, **Muhammad Sharif**, Wahid, F Zhang, Z.Q., Shah S.N.M. Rafiullah, ZAheer, S., Khan, F. and Rehman, F. 2014 Effect of composted rock phosphate with organic materials on yield and phosphorus uptake of berseem and maize.
5. **Muhammad Sharif**, Muhammad Arif, Tanvir Burni, Farmanullah Khan' Bismillah Jan and Inamullah Khan. 2014. Growth and P uptake of sorghum plants in salt affected soil as affected by organic materials composted with rock phosphate. Pakistan Journal of Botany 46(1): 173-180.
6. **Muhammad Sharif**, T. Burni, Fazli wahid, Farmanullah khan, Saeed khan, Amjad khan and Azizullah shah. 2013. Effect of rock phosphate composted with organic materials on yield and phosphorus uptake of wheat and mung bean crops. Pakistan Journal of Botany, 45(4): 1349-1356.
7. Tanvir Burni, Farrukh Hussain and **Muhammad Sharif**. 2013. Effect of Arbuscular mycorrhizal fungi on essential oils of two pharmaceutically important *Mentha* species in marginal soils. Pakistan Journal of Botany 45 (1): 293-296.
8. **Muhammad Sharif**, S. Saud, T. Burni, M. Afzal, F. Khan, M.J. Khan and Fazli Wahid. 2012. Effect of arbuscular mycorrhizal fungal inoculation in combination with different organic fertilizers on maize crop in eroded soils. Pakistan Journal of Botany 44 (4): 1427-1432.
9. Jehan Bakht, M. Javed Khan, M. Shafi, M. Aman Khan and **M. Sharif**. 2012. Effect of salinity and ABA application on proline production and yield in wheat genotypes. Pakistan Journal of Botany 44 (3): 873-878.
10. M. Shafi, S. Azam Shah, J. Bakht, S. Mahmood Shah, W. Mohammad, **M. Sharif** and M. Aman khan. 2012. Enhancing Soil Fertility and Wheat Productivity through Integrated Nitrogen Management. Communication in Soil Science and Plant Analysis, 43: 1499 – 1511. (
11. Mohammad Shafi, Jehan Bakht, Sajjad Ali, Hamayoon Khan, Mohammad Aman Khan and **Muhammad Sharif**. 2012. Effect of planting density on phenology, growth and yield of maize (*Zea mays* L.). Pakistan Journal of Botany 44 (2): 691-696.
12. Farhad Ali, Musharaf Ahmad, M. Junaid, Ayesha Bibi, Asad Ali, **M. Sharif**, Barkat Ali, K. Nawab and Amna Sadozai . 2012. Bacterial Soft Rod and Blackleg of Potato: Inoculums sources, Disease Incidence and Severity. Pakistan Journal of Botany 44 (2): 825 -830.

13. Tanvir Burni, Farrukh Hussain and **Muhammad Sharif** .2011. Arbuscular mycorrhiza fungi (AMF) associated with the rhizosphere of *Mentha Arvensis* L., and *M. longifolia* Huds. Pakistan Journal of Botany 43 (6): 3013-3019.
14. **Muhammad Sharif**, M.U. Khan, T. Burni, A.H. Shah, F. Wahid. 2011. Response of fed dung composted with rock phosphate on yield and phosphorus and nitrogen uptake of maize crop. African Journal of Biotechnology 10 (59) : 12595-12601
15. **Muhammad Sharif**, E. Ahmad, M.S. Sarir, D. Muhammad, M. Shafi and J. Bakht. 2011. Response of different crops to arbuscular mycorrhiza fungal inoculation in phosphorus-deficient soil. Communications in Soil Science and Plant Analysis, 42 (19) : 2299-2309.
16. **Muhammad Sharif** and N. Claassen. 2011. Action mechanisms of arbuscular mycorrhizal fungi in phosphorus uptake by *Capsicum annuum* L. *Pedosphere*, 21 (4): 502-511.
17. Nasrullah, **Muhammad Sharif**, K. Rubina and T. Burni. 2010. Occurrence and distribution of Arbuscular mycorrhiza in wheat and maize crops of Malakand division of North West Frontier Province, Pakistan. Journal of Botany 42 (2): 1301-1312.
18. **Muhammad Sharif**, R.A. Khattak, and M.S. Sarir. 2002. Effect of different levels of lignitic coal derived humic acid on growth of maize plants. Commun. Soil Sci. Plant Anal. USA. 33, (19-20): 3567-3580.

B. HEC RECOGNIZED JOURNALS

1. Farmanullah Khan, Z. Hayat, W. Ahmad, M. Ramzan, Z. Shah, **M. Sharif**, I. A. Mian and M. Hanif. 2013. Effect of slope position on physico-chemical properties of eroded soil. Soil and Environ. 32(1): 22-28.
2. Farmanullah Khan, K. Ejaz, M. Ramzan, Z. Shah, Naveedullah, **M. Sharif**, M. Afzal and M.J. Khan. 2012. Extent of nutrient deficiencies and degradation of selected soil properties in water eroded soils of District Muzaffarabad, Pakistan. Sarhad J. Agric. 28 (4): 571-578.
3. Matiullah Khan, Shahid Ahmad, **Muhammad Sharif**, Motsim Billah and Muhammad Aslam. 2012. Formulation of single super phosphate fertilizer from rock phosphate of Hazara, Pakistan. Soil Environ. 31 (1): 96-99.
4. Matiullah K. and **M. Sharif**. 2012. Solubility Enhancement of Phosphorus from Rock Phosphate through Composting with Poultry Litter. Sarhad J Agric 28 (3): 415-420.
5. **Sharif, M.**, Abida M.J. Khan and Izhar-ul-haq. 2010. Extractable phosphorus as affected by humic acid application in salt affected soils. Sarhad J Agric 26(3): 381-386.
6. Sarir M.S., **M. Sharif**, I.D. Pulford, T.H. Flowers and I. Ahmad. 2009. Response of ryegrass to phosphate in the reclamation of coal mine soil. Sarhad J Agric 25(2): 203-207.
- 7 **Sharif, M.**, M.S. Sarir, J. Bakht, S. Saud and Asad Ali. 2009. Response of wheat to the inoculation of Arbuscular mycorrhizal Fungi in Salt affected Soil. Sarhad J Agric 25(2): 209-216.
8. F.U. Khan, J. Ahmad, **M. Sharif** and M. Tariq. 2008. Characterization of some eroded soil series of river Swat catchments area. Soil and Environ. 27 (2): 215 – 222.
9. **Sharif, M** and B. Jan. 2008. Growth and nutrients accumulation of maize plants as affected by the inoculation of AM fungi with rock phosphate. Soil and Environ. 27 (1): 109- 115.
10. **Sharif, M.** M.S. Sarir and Nasrullah. 2005. Arbuscular Mycorrhizal incidence and infectivity in wheat and maize crops of Kohat area. Soil & Environ. 24(2): 145-151.

11. Sarir, M.S., **M. Sharif**, A. Zeb and M. Akhlaq. 2005. Influence of different levels of humic acid application by various methods on the yield of maize. *Sarhad J. Agric.* 21 (1): 75-81.
12. Sarir, M.S. Iqrar Hussain and **M. Sharif**. 2005. Changes in soil phosphorus content as affected by humic acid and P application. *Sarhad J. Agric.* 21 (3): 409-415.
13. Sarir, M.S. M. Akhlaq, A.Zeb and **M. Sharif**. 2005. Comparison of various organic manures with or without chemical fertilizers on the yield of maize. *Sarhad J. Agric.* 21 (2): 237-245.
14. **Sharif, M.** Riaz A. Khattak and Shahid, A.K. 2004. Nutritional Status of Persimmon Orchards of District Charsadda. *Sarhad J. Agric.* 20 (3):419-424.
15. **Sharif, M.**, R.A. Khattak, and M.S. Sarir. 2003. Residual effect of humic acid and chemical fertilizers on the yield and nutrients accumulation of maize plants. *Sarhad J. Agric.* 19 (4):543 – 550.
16. **Sharif, M.**, R. A. Khattak, and M. S. Sarir. 2002. Wheat yield and nutrients accumulation as affected by humic acid and chemical fertilizers. *Sarhad J. Agric.* 18, (3): 323 – 329.
17. **Sharif, M.**, M. S. Sarir, and F. Rabi. 2000. Biological and Chemical transformation of phosphorus in some important soil series of NWFP. *Sarhad J. Agric.* 16, (6): 587-592.
18. **Sharif, M.** 1999. The interactions among phosphate solubilizing bacteria, VAM fungus and associative N-fixing bacteria and their effects on growth and N and P uptake of pearl millet. *Pak. J. Soil Sci.* 16, (1-2): 53-62.
19. **Sharif, M.**, A. Qayyum, and J. K. Khattak.1998. Nutrients status of citrus orchard soils in Swat valley. *Sarhad J. Agric.* 14, (3): 241-247.
20. Sarir, M. S. and **M. Sharif**. 1994. Langmuir Adsorption Isotherm. A new approach for evaluating the phosphorus requirements of soils. An over view. *Sarhad J. Agric.* X, (5): 589 – 593.
21. Khattak, J. K., **M. Sharif**, and S. Naz. 1994. Nutrients status of citrus orchards soils in Peshawar valley. *Sarhad J. Agric.* X, (4): 451-460.
22. **Sharif, M.**, S. Hussain, and J. K. khattak. 1993. Maize response to K fertilizer at Mardan. *Sarhad J. Agric.* IX (3): 257-262.
23. Sarir, M.S., **M. Sharif**, and T. H. Flower. 1993. Validity of P determination under different extractions. *Sarhad J. Agric.* IX (1): 87-94.

C. FOREIGN JOURNALS / PROCEEDINGS

1. **Sharif, M.** A.M. Moawad. 2006. Arbuscular Mycorrhizal Incidence and Infectivity of Crops in North West Frontier Province of Pakistan. *World J. of Agric. Sciences*, 2 (2): 123-132
2. **Sharif, M.**, R.A. Khattak, M.S. Sarir and A. Wais. 2005. Utilization of humic acid in crop production: An Overview. *Proceeding of the International Conference on Sustainable Crop Production in Stress Environments; Management and Genetic Options*, India.
3. Sharif, M., R.A. Khattak, and M.S. Sarir. 2001. Soil physicochemical and biological properties as affected by humic acid. *Asian-Canadian J. Agric. Sci.* 1 (1): 57-66.

III. BOOKS

1. Sarir, M.S. and **M. Sharif**. 2006. *Nature in Islam and Science*. Dept of Soil & Environ. Sci., NWFP Agric. Univ. Peshawar, Pakistan.
2. Sarir M.S., **M. Sharif**, I.D. Pulford and T.H. Flowers.2010. Microbial and Enzymatic activities in some coal mine soils from central Scotland. In *Crop Science and Land Use for Food and Biology* (Edit. R.K. Behl, W. Merbach, H. Meliczek and C. Kaetsch, International Foundation for Sustainable Development in Africa and Asia (IFSDAA), Germany). Published by Agrobios (International) India (Chapter 19).