

MUHAMMAD ANEES

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Department of Microbiology,
Kohat University of Science and Technology
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Academic Record

2006-2009 **PhD in Microbial ecology: (University of Burgundy, Dijon France)**

<i>Title</i>	Temporal dynamics of components of the microflora, including <i>Trichoderma</i> sp. in relation to patch development of the disease incited by <i>R. solani</i> AG2.2 in a sugar-beet field
<i>Laboratory</i>	Centre de Microbiologie du Sol et de l'Environnement (CMSE), Unité Mixte de Recherche (UMR) INRA/Université de Bourgogne, Dijon France
<i>Grade</i>	“Très honorable” (highly honorable)

2005-2006 **M-Phil: (University of Burgundy, Dijon France)**

<i>Subject</i>	Gene, selection and adaptation
<i>Laboratory</i>	Laboratoire UMR INRA- Microbiologie et Géochimie des Sols (MGS), Dijon
<i>Grade</i>	“Assez bien” (Fairly good)

Publications

1. Anees, M., Abid, M., ur Rahman, S., Ahmed, N., Ashraf, M., Zhang, L., Kim, K.Y. 2018. Antagonistic activity of chitinolytic bacteria of various taxonomic groups against *Colletotrichum gleosporioides* causing anthracnose disease in pepper. Accepted in Plant Protection Science.
2. Munir, S., Ahmed, N., Abid, M., ur Rehman, S., Ashraf, M., Zhang, L., Anees, M. 2019. Chitinolytic activity of the indigenous *Trichoderma* spp. from the North West of Pakistan against the fungal phytopathogens. Pakistan Journal of Botany. 51(2), DOI: 10.30848/PJB2019-2(37)
3. Abid, M., Chohan, S., Atiq, R., Anees, M. 2018. First report of bitter rot of apple caused by *Colletotrichum siamense* in Pakistan. Plant Disease. Accepted
4. **Anees, M.**, Azim, R., ur Rehman, S., Jamil, M., Hendawy, S., Al-Suhaiban, N.A. 2018. Antifungal potential of *Trichoderma* strains originated from North Western regions of Pakistan against the plant pathogens. Pak. J. Bot. 50(5): 2031-2040.
5. Jamal Q, Cho J-Y, Moon J-H, Munir S, **Anees M**, Kim KY. 2017. Identification for the First Time of Cyclo(d-Pro-l-Leu) Produced by *Bacillus amyloliquefaciens* Y1 as a Nematocide for Control of *Meloidogyne incognita*. *Molecules*. 22(11):1839.
6. Hussain, M., Munir, S., Ayaz, S., Khattak, B.U., Khan, T.A., Muhammad, N., **Anees, M.**, Rahman, H., Qasim, M., Jamal, M.A., Ahmed, I., Rahim, K., Mazhae, H., Watanay, N. and

- Kasbari, M. 2017. First report on molecular characterization of Leishmania species from cutaneous leishmaniasis patients in Southern Khyber Pakhtunkhwa Province of Pakistan. *Asian Pacific Journal of Tropical Medicine*. 10(7): 718-721.
7. Shah, G., Jan, M., Afreen, M., **Anees, M.**, Rehman, S., Daud, M.K., Malook, I. and Jamil, M. 2017. Halophilic bacteria mediated phytoremediation of salt-affected soils cultivated with rice. *Journal of Geochemical Exploration*. 174: 59-65
 8. Jamal, Q., Ahmed, I., ur Rehman, S., Abbas, S., Kim, K.Y. and **Anees, M.** 2016. Isolation and characterization of bacteria from coal mines of Dara Adam Khel, Pakistan. *Geomicrobiology Journal*. 33(1): 1-9.
 9. Naing, K., Nguyen, X., **Anees, M.**, Lee, Y., Kim, Y., Kim, S., Kim, M., Kim, Y. and Kim, K. 2015. Biocontrol of *Fusarium* wilt disease in tomato by *Paenibacillus ehimensis* KWN38. *World Journal of Microbiology and Biotechnology*. 31(1): 165-174.
 10. Naing, K.W., Lee, Y.S., Nguyen, X.H., Jeong, M.H., **Anees, M.**, Oh, B.S., Cho, J.Y., Moon, J.H. and Kim, K.Y. 2015. Isolation and characterization of an antimicrobial lipopeptide produced by *Paenibacillus ehimensis* MA2012. *Journal of Basic Microbiology*. 55(7): 857-868.
 11. Khan, U. A., Rahman, H., Qasim, M., Hussain, A., Azizullah, A., Murad, W., Khan, Z., **Anees, M.** and Adnan, M. 2015. *Alkanna tinctoria* leaves extracts: a prospective remedy against multidrug resistant human pathogenic bacteria. *BMC Complementary and Alternative Medicine*. 15: 127.
 12. Wahab, A., Khattak, B., Ur Rehman, H., **Anees, M.**, Ali, N., Wahab, A., Ul Akbar, N. 2015. Analysis of drinking water in District Hangu for the prevalence of *Entamoeba histolytica*, KPK, Pakistan. *World Applied Sciences Journal*. 33(10): 1644-1654.
 13. Lee, Y.S., **Anees, M.**, Park, Y.S., Kim, S.B., Jung, W.J., and Kim, K.Y. 2014. Purification and properties of a *Meloidogyne*-antagonistic chitinase from *Lysobacter capsici* YS1215. *Nematology*. 16: 63-72.
 14. Naing, K. W., **Anees, M.**, Kim, S. J., Nam, Y., Kim, Y. C., and Kim, K. Y. 2014. Characterization of antifungal activity of *Paenibacillus ehimensis* KWN38 against soilborne phytopathogenic fungi belonging to various taxonomic groups. *Annals of microbiology*. 64(1): 55-63.
 15. Jamil, M., Zeb, S., **Anees, M.**, Roohi, A., Ahmed, I., ur Rehman, S. and Rha, E.S. 2014. Role of *Bacillus licheniformis* in phytoremediation of Nickel contaminated soil cultivated with rice. *International Journal of Phytoremediation*. 16(6): 554-571.
 16. Naing, K.W., **Anees, M.**, Kim, S.J., Kim, M.H. and Kim, K.Y. 2014. Biocontrol of late blight disease (*Phytophthora capsici*) of pepper and the plant growth promotion by *Paenibacillus ehimensis* KWN38. *Journal of Phytopathology*. 162: 367-376.
 17. Hussain, A., Awan, M.S., Khan, S.W., **Anees, M.**, Ali, S., Abbas, Q. and Ali, A. 2014. Bioefficacy of botanical extracts and bioagents against sclerotial isolates of *Rhizoctonia solani*. *Journal of Biodiversity and Environmental Sciences*. 4: 370-380.

18. Hussain, A., Awan, M.S., Iqbal, S.M., **Anees, M.** and Ali, S. 2014. Variability among the potato sclerotial isolates of *Rhizoctonia solani* of Mountainous Region, Gilgit- Baltistan, Pakistan. *African Journal of Microbiology Research*. 8(30): 2849-2860.
19. Munir, S., Jamal, Q., Bano, K., Sherwani, S.K., Abbas, M.N., Azam, S., Khan, A., Asadullah, Ali, S., Anees, M. 2014. Trichoderma and biocontrol genes: Review. *Scientia Agriculturae*. 5(2): 40-45.
20. Lee, Y.S., **Anees, M.**, Hyun, H.N. and Kim, K.Y. 2013. Biocontrol potential of *Lysobacter antibioticus* HS124 against root-knot nematode (*Meloidogyne incognita*) causing disease in tomato. *Nematology*. 15(5): 545-555.
21. Hussain, T., Roohi, A., Hussain, M., Ahmed, I., Hermann, V.E., Kim, K.Y. and **Anees, M.** 2013. Biochemical characterization and identification of bacterial strains isolated from drinking water sources of Kohat, Pakistan. *African Journal of Microbiology Research*. 7(16): 1579-1590
22. Nguyen, X.H., Naing, K.W., Lee, Y.S., Jung, W.J., **Anees, M.** and Kil Yong Kim. 2013. Antagonistic potential of *Paenibacillus elgii* HOA73 against root-knot nematode (*Meloidogyne incognita*). *Nematology*. 15(8): 991-1000.
23. Hong, S.H., **Anees, M.** and Kim, K.Y. 2013. Biocontrol of *Meloidogyne incognita* inciting disease in tomato by using a mixed compost inoculated with *Paenibacillus ehimensis* RS820. *Biocontrol Science & Technology*. 23(9): 1024-1039.
24. Khan, A., Munir, S., Jamal, Q., **Anees, M.**, Shah, S.A., Sherwani, S.K., Basit, A., Ali, G., Asadullah and Hussain, M. 2013. Biomass production of *Pasteurella multocida* using biofermenter. *International Journal of Advanced Research*. 1(5): 142-151.
25. Hayat, M., Ahmad, I., Afaq, U., Jan, S., **Anees, M.**, Hussain, T., Munir, M., Sherwani, S.K., Ayaz, S. and Hussain, M. 2013. Prevalence and molecular diagnosis of cutaneous leishmaniasis in local population of dir district, khyber pakhtunkhwa, pakistan. *International Journal of Pharmaceutical Sciences Review and Research*. 21(2): 359-364.
26. Lee, Y.S., Park, Y.S., **Anees, M.** and Kim, K.Y. 2013. Nematicidal activity of *Lysobacter capsici* YS1215 and the role of gelatinolytic proteins against root-knot nematodes. *Biocontrol, Science and Technology*. 23(12): 1427-1441
27. Ur Rehman, F., Munir, S., Sherwani, S.K., Omme-e-Hany, Jamal, Q., Rehmanullah, Khan, A. and **Anees, M.** 2013. Isolation and identification of *Salmonella* sp. and *E. coli* from broilers from the open market shops in Peshawar, Pakistan. *Pakistan Journal of Health Research*. 1(3): 01-03.
28. Ali, I., Munir, S., Sherwani, S.K., Ur rehman, F., Jamal, Q., Asadullah, Abbas, M.A., Khan, A. and **Anees, M.** 2013. Incidence of malaria in the urban and peri urban areas of District Charsadda Pakistan. *FUUAST J. Biol.* 3(2): 81-85.
29. Munir, S., Jamal, Q., Bano, K., Sherwani, S.K., Bokhari, T.Z., Khan, T.A., Khan, R.A., Jabbar, A. and **Anees, M.** 2013. Biocontrol ability of *Trichoderma*. *Intl J Agri Crop Sci.* 6(18): 1246-1252.

30. Khan, I., Khan, A. M., Ayaz, S., Khan, S., **Anees, M.**, Khan, S. A. and Ullah, F. 2013. Molecular detection of *Toxoplasma gondii* in water sources of district Nowshera, Khyber Pakhtunkhwa, Pakistan. *Journal of Toxicology and Environmental Health, Part A*. 76(14): 837-841.
31. Jamal, Q., Durani, P., Khan, K., Munir, S., Hussain, S., Munir, K. and **Anees, M.** 2013. Heavy metals accumulation and their toxic effects: review. *Journal of Bio-Molecular Sciences (JBMS)*. 1(1): 27-36.
32. Ahmad, Z., Rehman, A. U. and **Anees, M.** 2013. Microcosmic study of Nickel stress towards soil bacteria and their biochemical characterization. *Journal of Bio-Molecular Sciences (JBMS)*. 1(1): 37-44.
33. Bano, K., Khan, J., Rifat, Begum, H., Munir, S., ul Akbar, N., Ansari, J.A. and **Anees, M.** 2012. Patterns of antibiotic sensitivity of bacterial pathogens among urinary tract infections (UTI) patients in a Pakistani population. *African Journal of Microbiology Reserch*. 6(2): 414-420.
34. Munir, S., Hussain, M., Farooq, U., ZabidUllah, Jamal, Q., Afreen, M., Bano, K., Khan, J., Ayaz, S., Kim, K.Y. and **Anees, M.** 2012. Quantification of antibodies against poultry haemagglutinating viruses by haemagglutination inhibition test in Lahore. *African Journal of Microbiology Research*. 6(21): 4614-4619.
35. Jamil, M., **Anees, M.**, Ur-Rehman, S. and Rha, E.S. 2012. Effect of soil salinity on the growth, amino acids and ion contents of rice transgenic lines. *African Journal of Biotechnology*. 11(86). 15231-15235.
36. Khan, A., Khan, A.M., Ayaz, S., Khan, S., **Anees, M.** and Khan, S.A. 2012. Molecular detection of *Fasciola hepatica* in water sources of District Nowshera, Khyber Pakhtunkhwa, Pakistan. *International Journal of Advancements in Research & Technology*. 1 (7): 106-117.
37. Khan, S.A., Ayaz, S., Khan, S., **Anees, M.**, Khan, A.M. and Khan, A. 2012. Prevalence of *Giardia lamblia* in different water sources of District Nowshera, Khyber Pakhtunkhwa Pakistan. *International Journal of Advancements in Research & Technology*. 1 (7): 125-132.
38. **Anees, M.**, Tronsmo, A., Edel-Hermann, V., Gautheron, N., Faloya, V. and Steinberg, C. 2010. Biotic changes in relation to local decrease in soil conductivity to disease caused by *Rhizoctonia solani*. *European Journal of Plant Pathology*. 126: 29-41.
39. **Anees, M.**, Tronsmo, A., Edel-Hermann, V., Hjeljord, L.G., Héraud, C. and Steinberg, C. 2010. Characterization of field isolates of *Trichoderma* antagonistic against *Rhizoctonia solani*. *Fungal Biology*. 114: 691-701.
40. **Anees, M.**, Edel-Hermann, V. and Steinberg, C. 2010. Build up of disease patches caused by *Rhizoctonia solani*. *Soil Biology & Biochemistry*. 42: 1661-1672.

Organizing Conference and Seminars

1. Cancer Awareness Seminar: Supporting the cause to find a cure In Department of Microbiology, Kohat University of Science & Technology, Kohat, Pakistan on Feb 16, 2017.

2. Two day national conference on Recent Advances in Biotechnology In Department of Biotechnology and Genetic Engineering, Kohat University of Science & Technology, Kohat Pakistan on April 26-27, 2017

Conference Presentations, Proceedings and Bulletins

1. Anees, M., Tronsmo, A., Edel-Hermann, V., Gautheron, N. and Steinberg, C. Mechanisms involved in mobility of disease patches caused by *Rhizoctonia solani* in sugar beet field (Oral communication) In IOBC “Multitrophic Interactions in Soil”, Dijon, France: 24–27 Jun, 2007.
2. Anees, M., Tronsmo, A., Edel-Hermann, V., Gautheron, N. and Steinberg, C. Mechanisms involved in spatial and temporal mobility of disease patches caused by *Rhizoctonia solani* in sugar beet field (Oral communication) In Journée Jean Chevaugéon, Aussois, Savoie, France: 20-24 Jan, 2008.
3. Anees, M., Edel-Hermann, V., Tronsmo, A., Gautheron, N. and Steinberg, C. Can *Rhizoctonia solani* disease be naturally controlled in a sugar beet field? (Oral communication) In 4th International Symposium on Rhizoctonia, Berlin, Germany: 20-22 Aug, 2008.
4. Steinberg, C., Alabouvette, C., Edel-Hermann, V., Gautheron, N., Janvier, C., Anees, M., Friberg, H. 2008. "Multitrophic interactions in the soil"; (keynote lecture, abstract, slides); Novel technologies for management of beneficial and harmful microbes in the root system. - The Fourth Baltic Sea Region Symposium; Tune, Denmark; 30 nov-3 Dec 2008.
5. Anees, M., Tronsmo, A., Edel-Hermann, V., Hjeljord, L.G., and Steinberg, C. Characterization of field isolates of *Trichoderma* antagonistic against *Rhizoctonia solani* (Poster) In Phytopathologie 2009 - 7ème Colloque National de la Société Française de Phytopathologie Lyon, France: 8-11 Jun, 2009.
6. Anees, M., Tronsmo, A., Edel-Hermann, V., Hjeljord, L.G., and Steinberg, C. Characterization of field isolates of *Trichoderma* antagonistic against *Rhizoctonia solani* (Poster) In IOBC “Multitrophic Interactions in Soil”, Uppsala, Sweden: 10–13 Jun, 2009.
7. Anees M, Tronsmo A, Edel-Hermann V, Gautheron N, Faloya V, and Steinberg C. 2009. Mechanisms involved in spatial and temporal mobility of disease patches caused by *Rhizoctonia solani* in sugar beet field: Induction of antagonists within disease patch, in: Steinberg C, Edel-Hermann V, Friberg H, Alabouvette C, Tronsmo A (Eds), *Multitrophic Interactions in Soil, Bulletin IOBC/WPRS*, Dijon, pp. 1-5.
8. Anees, M., Tronsmo, M., Edel-Hermann, V., Hjeljord, L.G., Héraud, C., Steinberg, C. 2011. Functional characterization of *Trichoderma* isolates antagonistic against *Rhizoctonia solani*. in: Steinberg C, Edel-Hermann V, Friberg H, Alabouvette C, Tronsmo A (Eds), *Multitrophic Interactions in Soil, Bulletin IOBC/WPRS*, Uppsala, Vol. 63, pp. 1-5.
9. Anees, M., Tronsmo, A., Edel-Hermann, V., Hjeljord, L.G., Steinberg, C. 2011. Field isolates of *Trichoderma* spp. isolated from soil antagonistic towards *Rhizoctonia solani* (Oral communication). 3rd Bio-Asia Regional Conference, April 6-8 2011. Korea Research Institute of Bioscience and Biotechnology (KRIBB), Ochang Campus, South Korea.
10. Anees, M., Tronsmo, A., Edel-Hermann, V., Hjeljord, L.G., Steinberg, C. 2011. Field isolates of *Trichoderma* spp. isolated from soil antagonistic towards *Rhizoctonia solani*. (Poster communication). 2nd International Conference of Plant Scientists & 11th National Meeting of Plant Scientists. Department of Botany, GC University Lahore Pakistan. February 22-24, 2011.
11. Anees, M., Tronsmo, A., Edel-Hermann, V., Hjeljord, L.G., Steinberg, C. Field isolates of *Trichoderma* spp. isolated from soil antagonistic towards *Rhizoctonia solani*. BioAsia. 3rd Bio-Asia Regional Conference, Bio-Asia Program, April 6-8, 2011. Korean Research Institute for Bioscience and Biotechnology (KRIBB), Ochang, South Korea.
12. The International Workshop on Medicinal Plants: Conservation & Sustainable Use. Pak US Joint Initiative. 8-10 December 2011.

13. National Science Conference: Roadmap of cutting edge technologies. Pakistan Academy of Sciences. Pir Mehr Ali Shah University of Arid Agriculture Rawalpindi, Pakistan. January 10-12, 2012.
14. Mubbashir Hussain, Sultan Ayaz, Muhammad Anees, Sanaullah Khan, Christophe Ravel, Moez Berich, Uzair Afaq, Muhammad Hayat, Muhammad Iqbal, Pascal Boireau and Kasbari Mohamed. Molecular epidemiology of cutaneous leishmaniasis in Kohat, Karak and Hangu districts, Khyber Pakhtunkhwa, Pakistan (Oral communication). Pakistan Congress of Zoology, GC University of Lahore. 6th to 8th March, 2012.
15. Munir, S., Zabidullah, Afreen, Z., Banoori, N., Nisa, I., Jamal, Q., Khan, R.A., **Anees, M.** 2012. Chitinolytic activity of indigenous *Trichoderma* spp. against different fungal phytopathogens (Oral communication). 12th National and 3rd International Conference of Botany, Quaid-e-Azam University, Islamabad, Pakistan; 3 to 5 Sep 2012.
16. Mehresh Afreen, Rashid Azim, Naureen Banoori, Iqbal Nisa, Qaiser Jamal, Zabid Ullah and Muhammad Anees - Biocontrol potential of the indigenous *Trichoderma* isolates against plant pathogenic strains of *Fusarium oxysporum*. (Oral communication). 12th National and 3rd International Conference of Botany, Quaid-e-Azam University, Islamabad, Pakistan; 3 to 5 Sep 2012
17. Yong Seong Lee, MuhammadAnees, Yun SerkPark, Sun Bae Kim, Woo Jin Jung, Kil Yong Kim (2013). Role of purified chitinase produced by *Lysobacter capsici* YS1215 in biocontrol of root-knot nematodes. Korean Society of Soil Sciences and Fertilizer. 5: 168-169.
18. Yun Serk Park, Yong Seong Lee, Muhammad Anees, Sun Bae Kim, Kil Yong Kim (2013). Characterization and role of gelatinolytic proteins secreted by *Lysobacter capsici* YS1215 in biocontrol of root-knot nematodes. Korean Society of Soil Sciences and Fertilizer, 5: 170-171.
19. Kyaw Wai Naing, MuhammadAnees, Xuan Hoa Nguyen, Sang Jun Kim, Myung Hee Kim, Kil Yong Kim (2013). Biocontrol of late blight disease (*Phytophthora capsici*) of pepper and the plant growth promotion by *Paenibacillus ehimensis* KWN38. Korean Society of Soil Sciences and Fertilizer, 5: 164-165.
20. Xuan Hoa Nguyen, Kyaw Wai Naing, Young Seong Lee, Woo Jin Jung, Muhammad Anees, Kil Yong Kim (2013). Antagonistic potential of *Paenibacillus elgii* HOA73 against root-knot nematode (*Meloidogyne incognita*). Korean Society of Soil Sciences and Fertilizer, 5: 162-163.
21. Xuan Hoa Nguyen, Kyaw Wai Naing, MuhammadAnees, Young Seong Lee, Woo Jin Jung, Jae Hak Moon, Kil Yong Kim (2013). Antagonistic Effects of *Streptomyces griseus* H7602 on *Phytophthora capsici*. Korean Society Of Soil Sciences And Fertilizer. 5: 160-161.
22. Muhammad Anees, Kil-Yong Kim (2013). Biocontrol of *Colletotrichum* spp. causing anthracnose disease in plants by chitinolytic bacteria. Korean Society of Soil Sciences and Fertilizer. 5: 158-159.
23. One day seminar/ presentations on research projects. 11th April 2013. Archives Library Hall Peshawar, Pakistan.
24. Science & Thechnology Exhibition, Directorate of Science & Technology, Khyber Pakhtunkhwa, Pakistan. COMSATS Abbotabad. 27th to 28th November, 2013.
25. Muhammad Anees, Kil Yong Kim. Screening of chitinolytic bacteria against *Colletotrichum* spp. causing anthracnose disease. 4th International and 13th National Conference of Botany, Shahid Benazir Bhutto University, Sheringal. 27th to 30th August, 2014.
26. Iqbal Nisa, Shafiq ur Rehman, Muhammad Anees. Effect of chromogenic bacteria on plant growth alone or in combination with plant derived smoke. 4th International and 13th National Conference of Botany, Shahid Benazir Bhutto University, Sheringal. 27th to 30th August, 2014.

27. Developing Industry Driven Technologies. Department of Biotechnology & Genetic Engineering, Kohat University of Science & Technology, Kohat, Pakistan. 29th April, 2014
28. Four Day Training Workshop on Capacity Building of Biotechnologists, Department of Biotechnology, Kohat University of Science & Technology, Kohat, Pakistan. 08th to 11th June, 2015.
29. Tilawat Khan and Muhammad Anees. Antagonistic activity of the indigenous Trichoderma strains against the fungal phytopathogens causing disease in vegetables. 10th Biennial International Conference of Pakistan Society for Microbiology, GC University, Lahore, Pakistan. 25th to 28th March 2015.
30. One-day awareness seminar on Pathological Constraints to Wheat Production in Pakistan. Nuclear Institute for Food & Agriculture, Tarnab, Peshawar, Pakistan. 29th December, 2016.
31. Bibi, N., and Anees, M. Antibacterial Evaluation of Silver Nanoparticles Using *Fagonia cretica* leaves. Internaltional conference on bioapproches for environment and sustainability (Oral). Institute of Environmental Sciences and Engineering IESE-NUST, Islamabad, Pakistan. 22nd to 23rd February 2017.
32. Anees, M., Qayyum, A. and Rehman, S. Bioremediation of saline soil using soilborne halotolerant bacteria (Poster). One-day conference on Contemporary Issues in Biosciences. University of Wah, Wah Cant., Pakistan. 29th March, 2017
33. TB Awareness Seminar: TB is curable, lets knockout TB In Department of Microbiology, Kohat University of Science & Technology, Kohat, Pakistan on 30th March, 2017.
34. Bibi, N. and Anees, M. Antibacterial Evaluation of Silver Nanoparticles using *Fagonia critica* leaves (Poster). National Conference on “Recent Advances in Biotechnology”. Department of Biotechnology & Genetic Engineering, Kohat University of Science & Technology, Kohat, Pakistan. April 26-27, 2017
35. Fayyaz, M., Rehman, M., Malook, I., Rehman, H., Khan, S., Masood, S., Anees, M. and Jamil, M. Characterization of bacteria isolated from heavy metals contaminated soil and their role in bioremediation (Poster). National Conference on “Recent Advances in Biotechnology”. Department of Biotechnology & Genetic Engineering, Kohat University of Science & Technology, Kohat, Pakistan. April 26-27, 2017
36. ur Rehman, H., Zahra, R. and Anees, M. Detection of carbapenem resistance genes in Gram negative bacteria disseminated through wild birds in environment (Poster). National Conference on “Recent Advances in Biotechnology”. Department of Biotechnology & Genetic Engineering, Kohat University of Science & Technology, Kohat, Pakistan. April 26-27, 2017
37. Ahmed, H., ul Huda, N., Khan, J., Rahman, H., Khan, T.A., Hussain, M., Muhammad, N., Anees, M., Khattak, B. and Qasim, M. Exploration of Bacillus species for enzymatic potential and antibacterial activity of its exopolysaccharide (Poster). National Conference on “Recent Advances in Biotechnology”. Department of Biotechnology & Genetic Engineering, Kohat University of Science & Technology, Kohat, Pakistan. April 26-27, 2017
38. Gilani, S.H., Amir, I., Rahman, H., Khan, T.A., Hussain, M., Muhammad, N., Anees, M., Khattak, B. and Qasim, M. Exploration of Bacillus MK-12 from soil of Pakistan as potent agent against fungal and multi drug resistant bacterial pathogens (Poster). National Conference on “Recent Advances in Biotechnology”. Department of Biotechnology & Genetic Engineering, Kohat University of Science & Technology, Kohat, Pakistan. April 26-27, 2017
39. Malik, M.S., and Anees, M. Characterization of lytic enzyme producing bacteria and their antagonistic potential against phytopathogenic fungi on tomato (Poster). National Conference on “Recent Advances in Biotechnology”. Department of Biotechnology & Genetic Engineering, Kohat University of Science & Technology, Kohat, Pakistan. April 26-27, 2017

Teaching Experience

- **Courses taught to BS/M-Phil/ PhD classes**
 - Soil Microbiology
 - Marine and Freshwater Microbiology
 - Microbial Ecology
 - Mycology
 - Microbial Techniques in Agriculture
 - Enzyme Technology
 - Research Methodology
 - Agricultural Microbiology
 - Bioethics & Biosafety

Research Supervision

Student supervised	Completed	In progress
PhD	1	3
MPhil	20	5
BS	14	-

Research Projects

- **“Biocontrol Potential of *Trichoderma* spp. towards the potato disease and their genetic diversity in Pakistan”** funded by Higher Education Commission Pakistan (2010-2012)
- **“Antibiosis and chitinolysis by indigenous *Trichoderma* spp. against different plant pathogens”** funded by Directorate of Science and Technology, Govt. of Khyber Pakhunkhwa, Pakistan (2011-2013)
- **“Bioremediation of heavy metal affected soil in Khyber Pakhtunkhwa”** funded by Higher Education Commission Pakistan (2016- continued)

- **“Development of biological control of fungal diseases in vegetables using chitinolytic bacteria”** funded by Higher Education Commission Pakistan (2016 – continued)

Awards and honors

- **Gold Medal** in BSc (Hons) from PMAS Arid Agriculture University, Rawalpindi
- **Higher Education Commission award** of Overseas Scholarship for MS leading to PhD in France
- **Higher Education Commission Approved PhD Supervisor**
- **Award of postdoctoral fellowship** by Chonnam National University South Korea
- **Award of mobility research project** by AgreeSkills France
- **1st Position in the Poster competition in** One day conference on Contemporary Issues in Biosciences. University of Wah, Wah Cant., Pakistan. 29th March, 2017

Administrative Experience

- **Chairman Department of Microbiology**, Kohat University of Science and Technology, Kohat Pakistan (2014-2015)
- **Member Board of Faculty of Biological Sciences**, Kohat University of Science and Technology, Kohat Pakistan
- **Member Academic Council**, Kohat University of Science and Technology, Kohat Pakistan (2014-2015)
- **Convener Board of Studies**, Department of Microbiology, Kohat University of Science and Technology, Kohat (2014-2015)
- **Convener Graduate/Research Committee**, Department of Microbiology, Kohat University of Science and Technology, Kohat (2014-2015).
- **Member Departmental committees**
- **Subject Expert at Selection Board** at Abdul Wali Khan University, Mardan, Pakistan.

- **Program Team (PT) Member in the Department of Microbiology for the Ph.D Discipline (Feb 06, 2017 – cont.)**
- **Member of the Need Assessment Committee for hiring new teachers of the Department of Microbiology, Kohat University of Science & Technology, Kohat, Pakistan (Jun 19, 2017- cont.).**