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| **AAMER ALI SHAH, PH.D** |  |
| Assistant ProfessorDepartment of Microbiology, Faculty of Biological Sciences,Quaid-i-Azam University, Islamabad 45320, PakistanTel. No. +92-51-90643116 Mobile: +92-333-5708906E.mail: alishah@qau.edu.pk; aamerali.shah@gmail.com  |

Website: <http://www.qau.edu.pk/profile.php?id=805007>

Citations: <http://scholar.google.ca/citations?hl=en&user=iLlGORIAAAAJ>

1. **ACADEMIC ACHIEVMENTS**

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| **Degree** | **Year** | **University** |  **Field** |
| Postdoc-2 | 2010-12 | University of Tsukuba, Japan | Environmental Microbiology |
| Postdoc-1 | 2008-09 | University of Tsukuba, Japan | Applied Microbiology |
| Ph.D. | 2007 | Quaid-i-Azam University, Islamabad, Pakistan | Microbiology |
| M.Phil | 2001 | Quaid-i-Azam University, Islamabad, Pakistan | Microbiology |
| DVM | 1998 | University of Agriculture, Faisalabad, Pakistan | Veterinary Sciences |

1. **EMPLOYMENT HISTORY**

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| **Title** | **Organization** | **Years** |
| Assistant Professor | Quaid-i-Azam University, Islamabad, Pakistan | 2009-present |
| Lecturer | Quaid-i-Azam University, Islamabad, Pakistan | 2007-2009 |
| Assistant Director | Intellectual Property Organization, Pakistan | 2006-2007 |
| Research Associate | Quaid-i-Azam University, Islamabad, Pakistan | 2002-2006 |
| Research Assistant | Quaid-i-Azam University, Islamabad, Pakistan | 1999-2001 |

1. **RESEARCH INTERESTS**

**1. Biodegradation of plastics**

Most of biodegradable plastics are polyesters; their degradation may be catalysed by esterolytic enzymes such as esterases, lipases or cutinases. Therefore, I am working on degradation of different aliphatic, aromatic and aliphatic-aromatic polyesters type biodegradable plastics such as PHB, PHBV, PBS, PCL, PES, PU etc.

**2. Phosphate solubilizing microorganisms from soil**

Phosphorus (P) is one of the major essential macronutrients for plants and is applied to soil in the form of phosphatic fertilizers. However, a large portion of soluble inorganic phosphate applied to the soil as chemical fertilizer is immobilized rapidly and becomes unavailable to plants. The ability of a few soil microorganisms to convert insoluble forms of phosphorus to an accessible form is an important trait in plant growth-promoting bacteria for increasing plant yields. The use of phosphate solubilizing bacteria as inoculants increases the P uptake by plants. I am working on isolation, screening and characterization of phosphate solubilizing microorganisms from soil.

**3. Extremolytes from Radioresistant Microorganisms**

Microorganisms with the ability to survive high doses of radiation are known as radioresistant or radiation-resistant extremophiles. A novel application area for extremophiles is the use of “extremolytes,” from extremophilic microorganisms, to protect biological macromolecules and cells from damage by external stresses. One of my Ph.D students has recently started a project on screening of environmental samples like soil and water collected from desert and hilly areas, respectively, for the purpose of isolation of radio-resistant microorganisms.

**4. Microbial Enzymes:**

Purification and characterization of novel enzymes with desirable properties such as thermostability, alkaline stability, halophilicity and organic solvents tolerance are important to meet the industrial demands. One of my Ph.D students is working on production of xylanases from bacteria isolated from hot water springs. Besides this, I am working on other enzymes such as cellulases, esterases, asparginases from different microorganisms.

**5. Antimbiotic Resistance:**

The emergence of multi-drug resistant human pathogens since a few decades, are a continuing challenge to the clinicians, due to an increased rate of treatment failure. My students are working on checking the prevalence of multi-drug resistant human pathogens like *Enterococci*, *Streptococci*, enterobactericeae, Candida species etc. in different hospitals in Rawalpindi and Islamabad.

1. **COURSES TAUGHT**
* Industrial Microbiology
* Medical Microbiology
* Environmental Microbiology
* Applications of Biotechnology
* Advances in Microbiology
* Extremophiles
* Biosafety and Biosecurity
1. **PH.D/M.PHIL STUDENTS SUPERVISED**

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|  | **Produced** | **Under Supervision** |
| Ph.D | 01 | 10 |
| M.Phil | 32 | 08 |

1. **PUBLICATIONS IN PEER REVIEW JOURNALS**
2. Muhammad Irfan, Halil Ibrahim Guler, Ali Osman BELDUZ, **Aamer Ali Shah**, Sabriye Canakci. Cloning, Purification and Characterization of a Cellulase free Xylanase from Geobacillus thermodenitrificans AK53. Applied Biochemistry and Microbiology 2015 (In press).
3. Akhtar Nadhman, Fariha Hasan**, Aamer Ali Shah.** Production and characterization of poly(3-hyroxybutyrate) depolymerases from *Aspergillus* sp. isolated from soil that could degrade poly(3-hydroxybutyrate). Int J Biosciences 2015 (In press)
4. Sahib Zada, Abbas Ali Naseem, Seong Jo Lee, Mohammad Rafiq, Aamer Ali Shah, Fariha Hasan. Geochemical and mineralogical analysis of Kashmir cave (smast), Buner, Pakistan, and isolation of bacteria having antibacterial activity. Journal of Cave and Karst Studies 2015 (In press).
5. Nida Kanwal, **Aamer Ali Shah,** Sadia Qayyum, Fariha Hasan. Optimization of pH and temperature for degradation of tyre rubber by *Bacillus* sp. strain S10 isolated from sewage sludge. Int. Biodeterior Biodegrad. 2015; 103: 154-160.
6. Wasim Sajjad, Tariq Bhatti, Fariha Hasan, Aamer Ali Shah. Characterization of heterotrophic and mixotrophic acidophilic bacteria isolated from black shale and acid mine drainage, Khala Chatta, Haripur Pakistan. Int. J. Biosciences 2015; 6(8): 62-70.
7. Ayesha Aslam, Naeem Akhtar, Fariha Hasan, **Aamer Ali Shah**. Prevalence and in vitro antifungal susceptibility pattern of *Candida* species in a tertiary care hospital, Rawalpindi, Pakistan. Pakistan Journal of Zoology 2015; 47(2): 335-342.
8. Mir Sadiq Shah, Mark Eppinger, Safia Ahmed, **Aamer Ali Shah**, Abdul Hameed, Fariha Hasan. Multi drug resistant diarrheogenic E. coli pathotypes are associated with ready to eat salad and vegetables in Pakistan. Journal of Korean Society for Biological Chemistry 2015; 58(2): 267-273
9. **Aamer Ali Shah,** Ahmed Nawaz, Lubna Kanwal, Fariha Hasan, Samiullah Khan, Malik Badshah. Degradation of poly(ε-caprolactone) by a thermophilic bacterium *Ralstonia* sp. strain MRL-TL from hot water spring. International Biodeterioration and Biodegradation 2015; 98: 35-42.
10. Irfan Ullah, **Aamer Ali Shah,** Zarfishan Tahir, Obaidullah, Fariha Hasan, Najma Ayub. Detection of *Mycobacterium tuberculosis* from Clinical Specimens by Conventional and Molecular Technique in Punjab, Pakistan. Global Veterinaria 2014; 13 (6): 1002-1009.
11. Ahmed Nawaz, Fariha Hasan, **Aamer Ali Shah.** Degradation of poly(ε-caprolactone) by a newly isolated Brevundimonas sp. strain MRL-AN1 from soil. FEMS Microbiology Letter 2014; 363: 1-7.
12. **Aamer Ali Shah**, Satoshi Kato, Noboru Shintani, Numbi Ramudu Kamini, Toshiaki Nakajima-Kambe. Microbial degradation of aliphatic and aliphatic-aromatic co-polyesters. Appl Microbiol Biotechnol 2014; 98: 3437-3447.
13. **Aamer Ali Shah**, Tomoaki Eguchi, Daisuke Mayumi, Satoshi Kato, Noboru Shintani, Numbi Ramudu Kamini, Toshiaki Nakajima-Kambe.Degradation of aliphatic and aliphatic-aromatic co-polyesters by depolymerases from *Roseateles depolymerans* strain TB-87 and analysis of degradation products by LC-MS. Polym Degrad Stab 2013; 98: 2722-2729.
14. Siddiq Akbar, Fariha Hasan, Akhtar Nadhman, Samiullah Khan, **Aamer Ali Shah.** Purification and characterization of poly (3-hydroxy butyrate-*co*-3-hydroxyvalerate) degrading enzyme from *Streptomyces* sp. AF-111. J. Poly. Environ. 2013; 21: 1109-1116.
15. **Aamer Ali Shah,** Fariha Hasan, Ziaullah Shah, Nida Kanwal, Samia Zeb.A review on biodegradation of natural and synthetic rubbers. Int. Biodeterior. Biodegrad. 2013; 83: 145-157.
16. Ziaullah Shah, Fariha Hasan, Lee Krumholz, Deniz Fulya Aktas, Mutiullah Khattak, **Aamer Ali Shah**. Degradation of polyester polyurethane by newly isolated soil bacterium, Bacillus subtilis MZA-75. Biodegradation 2013; 24: 865-877.
17. **Aamer Ali Shah**, Tomoaki Eguchi, Daisuke Mayumi, Satoshi Kato, Noboru Shintani, Numbi Ramudu Kamini, Toshiaki Nakajima-Kambe. Purification and properties of novel aliphatic-aromatic co-polyesters degrading enzymes from newly isolated *Roseateles depolymerans* strain TB-87. Polym Degrad. Stab. 2013, 98: 609-618.
18. Ziaullah Shah, Fariha Hasan, Lee Krumholz, Deniz Atkas, **Aamer Ali Shah**. Degradation of polyester polyurethane by newly isolated *Pseudomonas aeruginosa* strain MZA-85 and analysis of degradation products by GC-MS. Int. Biodeterior. Biodegrad. 2013, 77: 114-122.
19. Shahzeera Begum, Fariha Hasan, Shagufta Hussain, **Aamer Ali Shah**. Prevalence of multi drug resistant *Acinetobacter baumannii* in the clinical samples from Tertiary Care Hospital in Islamabad, Pakistan. Pak. J. Med. Sci. 2013; 29: 1253-1258.
20. **A. A. Shah**, F. Hasan, Z. Shah,Mutiullah, A. Hameed. Degradation of polyisoprene rubber by newly isolated *Bacillus* sp. AF-666 from soil. Appl. Biochem. Microbiol. 2012; 48(1); 37-42.
21. A. Nadhman, F. Hasan, Z. Shah, A. Hameed, and **A. A. Shah.** Production of poly(3-hydroxybutyrate-*co*-3-hydroxyvalerate) depolymerase from *Aspergillus* sp. NA-25. Appl. Biochem. Microbiol. 2012; 48(5): 482-487.
22. Afzal I., **Shah A. A.,** Makhdum Z., Hameed A., Hasan F. Isolation and characterization of cellulase producing Bacillus cereus MRLB1 from soil. Minerva Biotecnologica, 2012; 24(3): 101-109.
23. Khalid Mehmood, Saleeta Shoukat, Zobia Hameed, Masroor Hussain, Safia Ahmed, **Aamer Ali Shah,** Abdul Hameed, Fariha Hasan. Evaluation of various strategies for isolation and culturing of *Helicobacter pylori*. Pakistan J. Zool., 2011; 43(3), 427-435.
24. Adil Farooq Lodhi, Fariha Hasan, Ziaullah Shah, Abdul Hameed, Shah Faisal, **Aamer Ali Shah.** Optimization of culture conditions for the production of Poly (3-hydroxybutyrate) Depolymerase from newly isolated *Aspergillus* *fumigatus* from soil. Pak. J. Bot. 2011; 43(2): 1361-1372.
25. Masroor Hussain, Fariha Hasan, **Aamer Ali Shah,**Abdul Hameed, Myunghwan Jung, Nabin Rayamajhi and Han Sang Yoo. Prevalence of class A and AmpC beta-lactamases in clinical *Escherichia coli* isolates from Pakistan Institute of Medical Science (PIMS), Islamabad, Pakistan. Jpn. J. Infect. Dis., 2011; 64, 249-252.
26. Hafiz Ullah, **Aamer Ali Shah,** Fariha Hasan, Abdul Hameed Biodegradation of Trinitrotoluene by Immobilized *Bacillus* sp. YRE1, Pak. J. Bot., 2010; 42(5): 3357-3367.
27. Atieyeh Taherian Fard, Fariha Hasan, Mojgan Bandehpour, Nariman Mosaffa, Fatemeh Mashhadi Abbas, Abdul Hameed, **Aamer Ali Shah**, Bahram Kazemi. Cloning and Expression of *C-terminal of Clostridium perfringens* type A enterotoxin and its biological activity. AJMR 2010; 4(14): 1469-1474.
28. Fariha Hasan, **Aamer Ali Shah,** Sundas Javed, Abdul Hameed. Enzymes in detergents: Lipases. Afri. J. Biotechnol., 2010; 9(31), 4836-4844.
29. Bashir Ahmad, Imran Javed, **Aamer Ali Shah**, Abdul Hameed Fariha Hasan. Growth characteristics of psychrotrophic bacteria isolated from -20°C freezer. Afri. J. Biotechnol., 2010; 9(5): 718-724.
30. Mehwish Riaz, **Aamer Ali Shah**, Abdul Hameed, Fariha Hasan. Characterization of lipase produced by *Bacillus* sp. FH5 in immobilized and free state. Annal Microbiol., 2010; 60(1): 169-175.
31. **Aamer Ali Shah,** Fariha Hasan, Abdul Hameed. Degradation of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by a newly isolated Actinomadura sp. AF-555 from soil. Int. Biodeterior. Biodegrad., 2010; 64: 281-285.
32. Fariha Hasan, **Aamer Ali Shah**, Abdul Hameed. Methods for detection and characterization of lipases: A comprehensive review. Biotechnol. Adv., 2009; 27: 782-798.
33. Hamayun M, SA Khan, AL Khan, **AA Shah**, G Rehman, EY Sohn, SK Kim, GJ Joo and IJ Lee. *Phoma herbarum* as a New Gibberellin-Producing and Plant Growth-Promoting Fungus. J. Microbiol. Biotechnol., 2009; 19(10): 1244-1249.
34. **Aamer Ali Shah**, Fariha Hasan, Abdul Hameed, Javed Iqbal Akhter. Isolation of *Fusarium* sp. AF-4 with the ability to adhere the surface of polyethylene. Afri. J. Microbiol. Res., 2009; 10(3): 658-663.
35. Ziaullah Shah, **Aamer Ali Shah,** Abdul Hameed, Fariha Hasan. Effect of pretreatments on enhanced degradation of polyisoprene rubber by new isolated *Bacillus* sp. S10. J. Chem. Soc. Pak., 2009; 31(4): 638-646.
36. Fariha Hasan, Samiullah Khan, **Aamer Ali Shah**, Abdul Hameed. Study on the production of antibacterial compounds by free and immobilized *Bacillus pumilus* SAF1. Pak. J. Bot., 2009; 41(3): 1499-1510.
37. **Shah, A. A.**, Hasan, F., Hameed, A., Ahmed, S. Biological degradation of plastics: a comprehensive review. Biotechnol. Adv., 2008; 26: 246-265.
38. **Shah, A. A.,** Hasan, F., Hameed, A., Ahmed, S. A novel poly(3-hydroxybutyrate)-degrading *Streptoverticillium* *kashmirense* AF1 isolated from sewage sludge and purification of PHB-depolymerase. Acta Biologica Hungarica., 2008; 59(4): 489-499.
39. Yasin M., **Shah, A. A.,** Hameed, A., Ahmed, S., Hasan, F. () Use of Microorganisms for the Treatment of Trinitrotoluene (TNT) Containing Effluents. J. Chem. Soc. Pak., 2008; 30(3): 442-448.
40. **Shah, A. A.,** Hasan, F., Hameed, A. Ahmed, S. Degradation of Polyurethane by novel bacterial consortium isolated from soil. Annal Microbiol., 2008; 58(3): 381-386.
41. Shaheen, M., **Shah, A. A.**, Hameed, A., Hasan, F. Influence of culture conditions on production and activity of protease from *Bacillus subtilis* BS1. Pak. J. Bot. 2008; 40(3): 2161-2169.
42. **Shah, A. A.,** Hasan, F., Hameed, A. Ahmed, S. Isolation and characterization of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) degrading actinomycetes and purification of PHBV depolymerase from newly isolated *Streptoverticillium kashmirense* AF1. Annal Microbiol. 2007; 57(4): 583-588.
43. Murad, S., Hasan, F., **Shah, A. A.,** Hameed, A., Ahmed, S. Isolation of phthalic acid degrading *Pseudomonas* sp. P1 from soil. Pak. J. Bot. 2007; 39(5): 1833-1841.
44. Awais M., **Shah A. A.,** Hameed A., Hasan F. Isolation, identification and optimization of Bacitracin Producing *Bacillus* sp. Pak. J. Bot. 2007; 39(4): 1303-1312.
45. Hasan, F., **Shah, A. A.,** Hameed, A. Ahmed, S. Synergistic effect of photo and chemical treatment on the rate of biodegradation of low density polyethylene by *Fusarium* sp. AF4. J. Appl. Polym. Sci., 2007; 105(3): 1466-1470.
46. **Shah, A. A.,** Hasan, F., Hameed, A. Ahmed, S. Isolation and characterization of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) degrading bacteria and purification of PHBV depolymerase from newly isolated *Bacillus* sp. AF3. Int. Biodeterior. Biodegrad., 2007; 60: 109-115.
47. Hasan F., **Shah A. A.,** Hameed A. Purification and characterization of a mesophilic lipase from *Bacillus subtilis* FH5 stable at high temperature and pH. Acta Biologica Hungarica 2007; 58: 115-132..
48. Hasan F., **Shah A. A.,** Hameed A. Influence of culture conditions on lipase production by *Bacillus* sp. FH5. Annal. Microbiol., 2006; 56(3): 247-252.
49. Hasan F., **Shah A. A.,** Hameed A. Industrial applications of microbial lipases. Enzy. Microbial Tech., 2006; 39: 235-251.
50. **Shah. A. A.,** F. Hasan, S. Ahmed and A. Hameed. Extended Spectrum Beta-lactamases Epidemiology, characterization and detection. Critic. Rev. Microbiol., 2004; 30: 25-32.
51. **Shah, A. A.,** F. Hasan, S. Ahmed and A. Hameed. Characteristics, epidemiology and clinical importance of emerging strains of Gram-negative bacilli producing extended- spectrum beta-lactamases. Res. Microbiol. 2004; 155: 409-421.
52. **Shah, A. A.,** Hasan, F., Ahmed, S., Hameed, A. Prevalence of extended-spectrum β-lactamases in nosocomial and out-door patients. Pak. J. Med. Sci. 2003; 19(3): 187-191.
53. Shah, A. A., Hasan, F., Ahmed, S., Hameed, A. Extended-spectrum β-lactamases in Enterobacteriaceae: Related to age and gender. The New Microbiologica, 2002; 25: 363-366.
54. Shah, A. A., Hasan, F., Ahmed, S., Hameed, A. Studies on the incidence of enterobacteriacae in nosocomial and out patient departments. Pak. J. Med. Res., 2002; 41(1): 4-8.
55. **MANUSCRIPTS SUBMITTED (Under Review)**
	* 1. Wasim Sajjad, Tariq Bhatti, Fariha Hasan, Aamer Ali Shah. Characterization of sulfur-oxidizing bacteria isolated from acid mine drainage and black shale samples Pakistan Journal of Botany 2015.
		2. Mutiullah Khattak,Obaid Ullah, Fariha Hasan, Nazrullah Raja, Shagufta Hussain, Naeem Akhtar, Aamer Ali Shah Vancomycin resistant enterococcal infections in tertiary care hospitals of Islamabad and Rawalpindi, Pakistan. Pakistan Journal of Zoology (MS ID: PJZ-2001-14).
		3. Ayesha Aslam, Jyotsna Chandra, Kanwal Rafique, Fariha Hasan, Naeem Akhtar, Aamer Ikram, Mahmood A. Ghannoum, Aamer Ali Shah. Antifungal susceptibility and biofilm characterization in *Candida* species isolated from tertiary care hospitals, Rawalpindi, Pakistan. Indian J Med Microbiol 2015.
		4. Muhammad Irfan, Halil Ibrahim Guler, Aamer Ali Shah, Fulya Ay Sal, Kadriye Inan, Ali Osman Belduz. Cloning, purification and characterization of halotolerant xylanase from *Geobacillus thermodenitrificans* C5. J Microbiol Biotechnol Food Sci.
		5. Ghulam Mujtaba, Salmaan Sharif, Shahzad Shaukat, Adnan Khurshid, Mehar Angez, Muhammad Masroor Alam, Fariha Hasan, Syed Sohail Zahoor Zaidi, Aamer Ali Shah. Seroprevalence of Human Cytomegalovirus (HCMV) infection in pregnant women and outcomes of pregnancies with active infection in Islamabad, Pakistan. Acta Virologica 2015.
56. Mati Ullah, Muhammad Masroor Alam, Sayed Sohail Azher Zaidi, Mehboob Nawaz, Shams ur Rehman, Fariha Hasan, Aamer Ali Shah. Seroprevalence of HCV Infection in Kohat Division, Khyber Pakhtoonkhwa, Pakistan. Acta Virologica 2015.
57. Umber Tasneem, Maryam Tahir Siddiqui, Rani Faryal, Aamer Ali Shah Prevalence and antifungal susceptibility of *Candida* species in a tertiary care hospital in Pakistan. Acta Microbiologica et Immunologica Hungarica 2015.
58. Muzna Hashmi, Aftab I Shafi, Aamer A Shah, Fariha Hasan, Abdul Hameed. Comparative study of stress tolerance among three industrial strains of Saccharomyces for enhanced production of bioethanol using high gravity molasses. Industrial Crops and Products 2015.
59. SanaTamim, Jelle Matthijnssens, Elisabeth Heylen, Mark Zeller, Marc Van Ranst,Aun Naqvi, Safia Ahmed, Aamer Ali Shah, Syed Sohail Zahoor Zaidi, Fariha Hasan. Unexpected animal derived NSP4 and VP6 gene segments present in human rotaviruses from Pakistan. Journal of Virology 2015.
60. Muhammad Irfan, Ammara Tayyab, Fariha Hasan, Aamer Ali Shah. Production and characterization of cellulase enzyme from *Bacillus amyloliquefaciens* strain AK9 isolated from hot spring. FEMS Microbiol Lett 2015.
61. Noor Hassan, Muhammad Rafiq, Shaukat Nadeem, Aamer Ali Shah, Muhammad Hayat. Culture dependent diversity of salt tolerant psychrotrophic fungi from Siachen glacier, Pakistan. Fungal Biology 2015.
62. Noor Hassan, Alexandre M Anesio, Shaukat Nadeem, Muhammad Hayat, Mohsin Khan, Pervaiz Ali, Aamer Ali Shah, Muhammad Rafiq. Culturable diversity and characterization of fungi isolated from Batura glacier Hunza valley, Pakistan. Fungal Ecology 2015.
63. **IMPACT FACTOR AND CITATION**

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| --- | --- | --- |
| **Number of Publications** | **Impact Factor** | **Citations** |
| 53 | 95 | 1082 |
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1. **PRESENTATIONS IN INTERNATIONAL CONFERENCES (ORAL/POSTERS)**
2. Ayesha Aslam, Kanwal Rafique, Fariha Hasan, Aamer Ikram, Irfan Ali Mirza, Mahmoud A. Ghannoum, Aamer Ali Shah. Antifungal susceptibility and biofilm characterization of *Candida* species isolated from a Tertiary Care Hospital, Rawalpindi, Pakistan. IUMS 2014 Congresses, July 27-August 01, 2014, Montreal, Canada.
3. **Aamer Ali Shah**, Tomoaki Eguchi, Fumie Ichihashi, Daisuke Mayumi, Satoshi Kato, Noboru Shintani, Toshiaki Nakajima-Kambe. Degradation of aliphatic and aliphatic aromatic co-polyesters by depolymerases from Roseateles depolymerans TB-87. FEMS Congress 2013: 5th Congress of European Microbiologists, July 21-25, 2013, Leipzig, Germany.
4. **Aamer Ali Shah**, Tomoaki Eguchi, Fumie Ichihashi, Daisuke Mayumi, Satoshi Kato, Noboru Shintani, Toshiaki Nakajima-Kambe.Purification and properties of novel aliphatic-aromatic copolyester degrading enzymes from newly isolated *Roseateles depolymerans* strain TB-87. 1st Biotechnology Congress, February 12-14, 2012, Dubai, UAE.
5. **Aamer Ali Shah**, Akhter Nadhman, Fariha Hasan, Z. Shah, A. Hameed. Isolation of poly(3-hyroxybutyrate-*co*-3-hydroxyvalerate) depolymerase producing *Aspergillus fumigatus* from soil. 9th International Mycological Congress, August 1-6, 2010, Ediburgh, UK.
6. **Aamer Ali Shah,** Sumaira Shah, Abdul Hameed, Fariha Hasan. Factors affecting biodegradation of poly (3-hydroxybutyarte) and poly (3-hydroxybutyrate-co-3-hydroxyvalerate) (reference 0062) BioSysBio Conference 2009. Synthetic Biology, Systems Biology and Bioinformatics. 23 - 25 March, 2009, University of Cambridge, UK.
7. Fariha Hasan, Abid Makhdoom, **Aamer Ali Shah** and Abdul Hameed. Biodegradation of 2, 4- dinitrotoluene by bacteria isolated from TNT containing effluent (reference 0063) Bio Sys Bio Conference 2009. Synthetic Biology, Systems Biology and Bioinformatics. 23 - 25 March, 2009, University of Cambridge, UK.
8. **Aamer Ali Shah,** Fariha Hasan**,** Abdul Hameed, Safia Ahmed. “Scanning Electron Microscopy and Fourier Transform Infra-Red Spectroscopy Analysis of Poly(3-hydroxybutyrate-*co*-3-hydroxyvalerate) degradation after soil burial”. II International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2007), Nov. 28 - Dec. 01, 2007, Seville, Spain.
9. Fariha Hasan, Ziaullah Shah, **Aamer Ali Shah,** Safia Ahmed, Abdul Hameed. “Isolation of Polyisoprene rubber degrading *Bacillus* sp. S10 from sewage sludge”. II International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2007), Nov. 28 - Dec. 01, 2007, Seville, Spain.
10. Abdul Hameed, Hafiz Ullah, **Aamer Ali Shah,** Fariha Hasan. Biodegradation of Trinitrotoluene by Immobilized *Bacillus* sp. YRE1. II International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2007), Nov. 28 - Dec. 01, 2007, Seville, Spain.
11. Safia Ahmed, Mariam Asif, Fariha Hasan, Naima Atiq, **Aamer Ali Shah,** Abdul Hameed. Fungal Degradation of Polystyrene. II International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2007), Nov. 28 - Dec. 01, 2007, Seville, Spain.
12. Fariha Hasan, Sheeba Murad, Aamer Ali Shah, Abdul Hameed, Safia Ahmed. Microbial degradation of plasticizers. Fifth International Biennial Conference of Pakistan Society for Microbiology, held on Jan 10-15, 2005 in Karachi, Pakistan.
13. Sheeba Murad, Fariha Hasan, Aamer Ali Shah, Safia Ahmed. Isolation of Phthalic acid degrading bacteria. Second National Conference on “Biotechnology and Emerging Sciences”, organized by BUITMS, held on March 15-17, 2005, in Quetta, Pakistan.
14. **Aamer Ali Shah,** Fariha Hasan**,** Abdul Hameed, Safia Ahmed. A study on the isolation of fungi with the ability to adhere to polyethylene films. 4th International Symposium on Genetic Engineering and Biotechnology, organized by Center for Molecular Genetics, University of Karachi, Pakistan.
15. **AWARDS/SCHOLARSHIPS**
16. Fellowship for the Post Doctorate awarded by Japan Society for Promotion of Science (JSPS). Working at Graduate School of Life and Environmental Sciences, University of Tsukuba, Ibaraki, Japan (Nov. 2010-Oct 2012).
17. Fellowship for the Post Doctorate awarded by Matsumae International Foundation, Japan. Worked at Graduate School of Life and Environmental Sciences, University of Tsukuba, Ibaraki, Japan (Aug. 2008-Jan. 2009).
18. Pakistan Council for Science & Technology (PCST) Research Productivity Allowance (RPA) Award 2011, in **Category A**
19. Pakistan Council for Science & Technology (PCST), Research Productivity Allowance (Rs. 150,000/-) for publishing research papers in International Journals, for the year 2010-11.
20. Pakistan Council for Science & Technology (PCST), Research Productivity Allowance (Rs. 60,000/-) for publishing research papers in International Journals, for the year 2006-07, 2007-08, 2008-09 and 2009-10.
21. **BOOK PUBLISHED**

“Role of microorganisms in biodegradation of plastics” (2009) with ISBN No. 978-3-639-11808-7, has been published by VDM Verlag Dr. Müller AG & Co. KG ([www.vdm-verlag.de](http://www.vdm-verlag.de)).

1. **MEMBERSHIP OF PROFESSIONAL ORGANIZATIONS/BODIES**
* American Society of Microbiology (Global Outreach Program)
* Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEES), Singapore.
* Member Pakistan Society for Microbiology (PSM), Karachi.
* Member Board of Faculty
* Member Board of Studies
* Member M.Sc./MPhil/Ph.D Admission Committee
* External examiner/paper setter for different universities
1. **RESEARCH GRANTS**

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| --- | --- | --- | --- | --- |
| **Project Title**  | **Principal / Co-Principal Investigator**  | **Amount (Mn)** | **Sponsoring Agency**  | **Duration**  |
| Production and characterization of xylanases from newly isolated bacterial strains | PI | 1.00 | URF | 2012-13 |
| Biodegradation of synthetic polyesters | Co-PI | 2.7 | HEC | 3-Years (2008-2011) |
| Prevalence of Vancomycin Resistant Enterococci in the clinical isolates of hospitalized patients | PI | 1.00 | URF | 1 year (2009) |
| Biodegradation of Polyhydroxyalkanoates by Indigenous Microorganisms | PI | 1.00 | URF | 1 year (2008) |

HEC: Higher Education Commission URF: University Research Fund

1. **REFERENCES**

|  |
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| * + 1. **Toshiaki Nakajima-Kambe Ph.D**

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| * + 1. **Dr.** **Safia Ahmed**

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