

AAMER ALI SHAH (Ph.D)

PROFESSOR

Quaid-i-Azam University, Islamabad, Pakistan

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Citations: <https://scholar.google.com/citations?user=iLIGORIAAAAJ&hl=en&oi=ao>



1. PROFESSIONAL SUMMARY

Innovative microbiologist with 17+ years' experience in environmental and industrial microbiology. Proven track record in developing microbial processes for the remediation of environmental pollutants (e.g., plastics, lignin, heavy metal) and high-value metabolites production. Adept at scaling research from lab to pilot stage, securing multi-million-dollar grants, and leading international collaborations. Recognized keynote speaker and award-winning scientist with strong technical, leadership, and commercialization skills.

2. CORE COMPETENCIES

- Industrial Microbiology: Enzyme discovery & optimization, strain improvement, bio-upcycling of plastics, lignocellulosic biomass valorization
- Bioprocess Development: Fermentation scale-up, process optimization, downstream processing
- Environmental Biotechnology: Bioremediation of plastics, lignin, and heavy metals
- Analytical Expertise: FTIR, SEM, LC-MS, GC-MS, GPC, AAS
- Molecular Biology: PCR, cloning, recombinant expression, protein purification
- Leadership: Team management, international project coordination, technology transfer

1. ACADEMIC ACHIEVEMENTS

Degree/Certificate	University/College/School	Subjects	Division	Year
Postdoc 2 nd	University of Tsukuba, Japan	Environmental Microbiology	-	2010-2012
Postdoc 1 st	University of Tsukuba, Japan	Environmental Microbiology	-	2008-2009
PhD	Quaid-i-Azam University, Islamabad	Microbiology	1 st	2003-2007
M.Phil	Quaid-i-Azam University, Islamabad	Microbiology	1 st	1999-2001
DVM	University of Agriculture, Faisalabad	Veterinary Medicine	1 st	1993-1998
HSSC	PAF Intermediate College Peshawar	Pre-Medical	1 st	1991-1993
SSC	Govt. Higher Secondary School Peshawar	Science	1 st	1988-1990

2. EMPLOYMENT HISTORY (Teaching/Research) Total Experience: 17 Years 10 Months

Title	Organization	Years
Professor	Quaid-i-Azam University, Islamabad, Pakistan	Feb. 2020 – Till date
Associate Professor	Quaid-i-Azam University, Islamabad, Pakistan	Aug. 2015 – Feb. 2020 (4 Years 4 Months)
Assistant Professor	Quaid-i-Azam University, Islamabad, Pakistan	Feb. 2009 – Aug. 2015 (6 Years 6 Months)
Lecturer	Quaid-i-Azam University, Islamabad, Pakistan	Oct. 2007 – Feb. 2009 (1 Year 4 Months)
Research Officer	Pakistan Health Research Council, Islamabad	Oct. 2004 – May 2006 (1 Years 7 Months)
Research Associate	Quaid-i-Azam University, Islamabad, Pakistan	Jan. 2002 – Aug. 2004 (2 Years 8 Months)

3. i. ADMINISTRATIVE EXPERIENCE: >10 Years

No.	Designation	Organization	Duration
1	Chairman	Quaid-i-Azam University, Islamabad	March. 2020 – March 2023 (03 Years)
2	Coordinator BS Program	Quaid-i-Azam University, Islamabad	Jan. 2025 – Till Date
3	Incharge Store & Purchases	Quaid-i-Azam University, Islamabad	Jan. 2018 – Jan. 2020 (02 Years)
4	Incharge Faculty Residences	Quaid-i-Azam University, Islamabad	Nov. 2014 – May 2019 (4.5 Years)
5	Assistant Director	Intellectual Property Organization, Cabinet Division, Islamabad	June, 2006 – July, 2007 (1-Year)

ii. POSTDOCTORAL EXPERIENCE: 2 Years 6 Months

No.	Job Title	Organization	Duration
1	Postdoctoral Researcher	University of Tsukuba, Japan	Nov. 01, 2010 – Oct. 31, 2012 (2 Years)
2	Postdoctoral Researcher	University of Tsukuba, Japan	Aug. 01, 2008 – Jan. 2009 (6-Months)

4. PUBLICATIONS (IMPACT FACTOR AND CITATION)

Publications	Impact Factor	Citations	H-index	i10-index
>200	>800	>15500	48	137

5. HONORS/AWARDS

No	Title of the Award	Organization
1.	CAS-PIFI Visiting Scientist (April – September 2025)	Chinese Academy of Sciences, Beijing
2.	Cited in the list of Top 2% Scientist of the World in 2019-2024 https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/7	Stanford University USA
3.	Prof. A. R. Shakoori Gold Medal 2019	Zoological Society of Pakistan
4.	PAS Gold Medal in Biological Sciences 2018	Pakistan Academy of Sciences
5.	Pak-UK Education Gateway Award 2019-20	British Council Pakistan
6.	Collaborative Research Grants (International)	HEC-TUBITAK; PSF-NSFC; HEC-PERIDOT
7.	Travel Grants Award (2013 – 2018)	Higher Education Commission, Islamabad
8.	PCST Research Productivity Award 2010 – 2014	Pakistan Council for Science and Technology
9.	JSPS Postdoctoral Fellowship 2010-2012	Japan Society for Promotion of Science, Japan
10.	International Postdoctoral Fellowship 2008-2009	Matsumae International Foundation, Japan
11.	Section Editor (Biodegradation of plastics) 2021 https://www.frontiersin.org/research-topics/21973/biodegradation-of-plastics	Frontiers in Bioengineering and Biotechnology

6. RESEARCH GRANTS (Total grants secured: > 30 Mn)

Project Title	PI/ Co-PI	Amount (Mn)	Funding	Duration
Biocatalysis as a green route toward upcycling of polyethylene terephthalate (PET) into value added products	PI	11.6	HEC	In progress
Bacteriophage derived proteins a novel approach as enzobiotics to combat multi drug resistant bacteria	Co-PI	12.856	HEC	Completed
Co-Utilization of Methanol and Sugarcane Hydrolysates for Production of Fatty Acids Derivatives	PI	7.670	PSF-NSFC	Completed

Bioremediation and Toxicity Reduction of Pulp and Paper Mill Effluents by Newly Isolated Indigenous Microbial Strains as well as Development of Pilot Scale Bioreactor for Effective Removal of Pollutants	PI	2.680	HEC-TUBITAK	Completed
Production of xylanases from thermophilic microorganisms and their industrial applications	PI	2.596	HEC	Completed
Biodegradation of synthetic polyesters	PI	2.78	HEC	Completed

7. RESEARCH INTERESTS

- Bio-upcycling for conversion of recalcitrant plastics into value added materials: establishment of a circular (bio)-economy for plastics;
- Investigation for the plastics degrading potential microorganisms in the environment, understanding the mechanism of degradation as well as role of esterolytic enzymes such as esterases, lipases or cutinases in their degradation;
- Bioremediation and detoxification of pulp and paper mills effluents by microorganisms and development of pilot scale bioreactor for effluent treatment;
- Biohydrometallurgy: Investigation for metallo-resistant microorganisms from metal contaminated environment and understanding their role in recovery and removal of metals through leaching and sorption strategies;
- Study of microbes that live in extreme environments such as thermophiles, radio-resistant, acidophiles, alkaliphiles as well as metallo-resistant microorganisms, understanding their mechanism of survival to extreme conditions and their metabolites of biotechnological significance.
- Studies on production, purification and characterization of industrially important enzymes with desirable properties such as thermostability, alkaline stability, halophilicity and organic solvents tolerance are important to meet the industrial demands.
- Co-utilization of methanol and biomass hydrolysates for production of fatty acids derivatives

8. PUBLICATIONS IN PEER REVIEWED JOURNALS (Total No.: >200; Impact Factor: >800)

No.	Publications	Impact Factor
1.	Xuliang Zhuang, Xu Wang, Aamer Ali Shah , Cancan Jiang, Danhua Wang, Shengjun Xu, Lei Wang, Shanghua Wu, Ye Deng, Guibing Zhu, Jian Xu. Quorum sensing driven metabolic altruism of nitrite-oxidizing bacteria fuels partial nitrification. Nature Water 2026. (https://doi.org/10.1038/s44221-026-00677-y)	30
2.	Jiang Peng, Cancan Jiang, Xu Wang, Shengjun Xu, Aamer Ali Shah , Xuliang Zhuang. The nitrite bottleneck revisited: Exploring the potential of phage-mediated microbial regulation for advancing novel nitrogen removal strategies. NPJ Clean Water 2026; 9:11. (https://doi.org/10.1038/s41545-025-00543-6)	14.1
3.	Xuliang Zhuang, Xiaoxuan Liu, Shengjun Xu, Xu Wang, Aamer Ali Shah , Lei Wang, Shanghua Wu, Cancan Jiang, Zhiyun Ouyang, Shilong Piao. Human amplification of climate-induced greenhouse gas emissions from global small water bodies. Proceedings of National Academy of Sciences (PNAS) 2026; 123(22): e2537678123 (https://doi.org/10.1073/pnas.2537678123)	10.6
4.	Imran Rabbani, Muhammad Rafiq, Suliman Shah, Tariq Ahmad, Muhammad Irfan, Aamer Ali Shah , Turki M. Dawoud, Fariha Hasan. GCMS-based evaluation, characterization and in silico analysis of antimicrobial metabolites in the crude extract of cold-adapted <i>Alcaligenes pakistanensis</i> LTP10. AIMS Microbiology , 12(2): 252–281. (https://doi.org/10.3934/microbiol.2026011)	5.4
5.	Tayyaba Alam, Salah Ud Din, Afaq Ahmad, Mahwish Ali, Malik Badshah, Samiullah Khan, Fariha Hasan, Muhammad Farman, Aamer Ali Shah . Bioactive Metabolites from UV-Resistant <i>Streptomyces alkaliterrae</i> CH-8 in Desert Soil: In-Vitro Study on Their Potent Antioxidant and Antibiofilm Activities. Scientific Reports 2026 (Article in Press) (https://doi.org/10.1038/s41598-026-53509-0)	4.9

6.	Bin Song, Yunqiang Tang, Jiaying Xu, Aamer Ali Shah , Zhanyong Wang. Biodegradation of low-density polyethylene by an actinomycete <i>Nocardia asteroides</i> isolated from agricultural soils. Bioresource Technology 2026; 444:133936. (https://doi.org/10.1016/j.biortech.2026.133936)	9.5
7.	Zhao Cui, Dan Hu, Aamer Ali Shah , Ting Zhu, Zhihui Bai. Impact of Microplastic Pollution on the Structure and Function of Soil Fungal Communities. <i>Sustainability</i> 2026; 18, 5298 (https://doi.org/10.3390/su18115298)	4.1
8.	Imran Rabbani, Muhammad Rafiq, Suliman Shah, Tariq Ahmad, Sajid Latif, Muhammad Irfan, Aamer Ali Shah , Abdullah M. S. Al-Hatmi, Ahmed Al-Harrasi, Fariha Hasan. From Glacier to In Silico: Integrated LC-MS Metabolomics and Multi-Level Computational Prioritization of Antimicrobial Metabolites From <i>Alcaligenes pakistanensis</i> LTP10. <i>Chemistry & Biodiversity</i> 2026; 23(6):e71402. (https://doi.org/10.1002/cbdv.71402).	2.9
9.	Mehmooona Sharif, Umme Habiba Saeeda, Aneela Nawaz, Muhammad Farman, Malik Badshah, Aamer Ali Shah , Muniba Jadoon, Lolakhon Ettibaeva, Samiullah Khan. Bioactivity assessment and metabolic profiling of <i>Phellinus gilvus</i> . A pathway to novel therapeutics. <i>Food Science and Biotechnology</i> 2026 (https://doi.org/10.1007/s10068-026-02199-5)	3.9
10.	Shahzar Khan, Nadia Ilyas, Fida Ullah Khan, Aneela Nawaz, Mohammed Raashid, Muhammad Ismail Khan, Momina Aamir, Aamer Ali Shah , Malik Badshah, Brekhna Alam, Samiullah Khan. Bacteriophage-Based Vaccine Platform for Next Generation Vaccine Development Against Bovine Tuberculosis and Other Pulmonary Diseases of Animals. <i>International Journal of Peptide Research and Therapeutics</i> ; 2026 (32): 39. (https://doi.org/10.1007/s10989-026-10812-8)	2.5
11.	Gohar Khadim, Aamer Ali Shah , Aayesha Riaz, Mian Muhammad Awais, Arfan Yousaf, Mahwish Ali, Bakhtawar Khadim, Nimra Riaz. Molecular Identification and Phylogenetic Analysis of Lumpy Skin Disease Virus-P32 Gene in Cattle of Potohar Region, Pakistan. <i>Current Microbiology</i> 2026; 83:195 (https://doi.org/10.1007/s00284-026-04771-y)	2.8
12.	Jiayu Leu, Sixuan Wu, Xuliang Zhuang, Aamer Ali Shah , Xiaoran Zhang, Huanzhen Zhang, Zhihui Bai. Effect of powdery mildew on the composition of phyllosphere microbial community of <i>Euonymus japonicus</i> . <i>Ecological Frontiers</i> 2026 (http://dx.doi.org/10.1016/j.ecofro.2026.05.002)	4.7
13.	Xiqiang Liu, Jintao Lu, Siqi Chen, Mingyang Wang, Aamer Ali Shah , Chunjie Gong. Recent advances of muconic acid production using microbial synthetic biology. <i>Archives of Microbiology</i> 2025; 207(9):221 (https://doi.org/10.1007/s00203-025-04419-8)	3.4
14.	Alam Zeb Khan, Salah Ud Din, Mehmooona Sharif, Fariha Hasan, Samiullah Khan, Malik Badshah, Ali Osman. Beldüz, Aamer Ali Shah . Isolation and characterization of <i>Aspergillus niger</i> AZ2 from pulp and paper mill effluent that degrade lignin under alkaline conditions. <i>Current Microbiology</i> 2025; 82:421. (https://doi.org/10.1007/s00284-025-04413-9)	2.8
15.	Xiaoji Liu, Zhihua Wang, Yingying Zhang, Aamer Ali Shah , Chunjie Gong. Microbial strategies on polyhydroxyalkanoates production from food waste to support the circular bioeconomy. <i>International Journal of Biological Macromolecules</i> 2025; 320: 146023. https://doi.org/10.1016/j.ijbiomac.2025.146023	8.7
16.	Ruzhe Zhang, Aamer Ali Shah , Beining Wang, Chunjie Gong. Current progress of <i>p</i> -coumaric acid production using bioengineering technologies. <i>Food Bioscience</i> 2025; 71: 107109. (https://doi.org/10.1016/j.fbio.2025.107109)	6.2
17.	Maria Shoukat, Atiq Ur Rehman, Alam Khan, Moona Nazish, Irfan Ali, Mohammad Abul Farah, Samiullah Khan, Aamer Ali Shah, Shagufta Sanam, Mohamed Farouk Elsadek, Malik Badshah. Enhancement of Biogas Production through Phase Separated Anaerobic Co-Digestion of Cattle Manure with Fruit and Vegetable Waste. <i>Polish Journal of Environmental Studies</i> 2025; 20: 1 – 8. (https://doi.org/10.15244/pjoes/201937)	1.6
18.	Kalsoom Kalsoom, Salah Ud Din, Esma Ceylan, Fariha Hasan, Samiullah Khan, Malik Badshah, Sabriye Çanakçı, Ali Osman Belduz, Aamer Ali Shah . Cloning and expression of chromate reductase from <i>Bacillus paramycoides</i> S48 for chromium remediation. <i>Scientific Reports</i> 2025; 15:18796. (https://doi.org/10.1038/s41598-025-03412-x)	4.9
19.	Muhammad Irfan, Naseer Ahmed, Muhammad Rafiq, Jemma L Wadham, Christopher J Williamson, Abdul Haleem, Noor Hasan, Aamer Ali Shah , Fariha Hasan. Bioprospecting Cold-Adapted Indole Acetic	3.3

	Acid-Producing Bacteria with Multifaceted Plant Growth Promoting Traits for Wheat Growth from Ghulkin Glacier, Pakistan. Journal of Basic Microbiology 2025 (https://doi.org/10.1002/jobm.70017).	
20.	Tayyaba Alam, Salah Ud Din, Muhammad Abdullah, Mahwish Ali, Malik Badshah, Muhammad Farman, Samiullah Khan, Fariha Hasan, Aamer Ali Shah . Bioactive metabolites from radioresistant bacterium <i>Kocuria</i> sp. strain TMM 11 and their role in prevention of Ultraviolet-induced photodamages. Current Microbiology 2025; 82(243) (https://doi.org/10.1007/s00284-025-04194-1)	2.8
21.	Numan Saleh Zada, Ali Osman Belduz, Abdulrahman H. Alessa, Halil Ibrahim Güler, Mine Karaoğlu, Malik Badshah, Aamer Ali Shah , Aasia Kalsoom, Samiullah Khan. Comparison of active site mutations at subsite + 2 of <i>Anoxybacillus ayderensis</i> A9 β -glucosidase for hydrolysis of pNPG and polydatin. BMC Biotechnology 25; 52. (https://doi.org/10.1186/s12896-025-00984-4)	4.8
22.	Farooq S, Naeem K, Shah AA , Kousar R, Latif S, Farooq S. Comparative evaluation of Real-Time and Insulated Isothermal PCR for detection of <i>Mycoplasma gallisepticum</i> . Brazilian Journal of Poultry Sciences 2025; 27(3): 001 – 009. (http://dx.doi.org/10.1590/1806-9061-2025-2095)	1.3
23.	Marium Saba, Safia Farooq, Abdulrehman Alessa, Ali Osman Belduz, Aamer Ali Shah , Malik Badshah, Samiullah Khan. Green synthesis of silver nanoparticles using Keratinase from <i>Pseudomonas aeruginosa</i> - C1M, characterization and applications as novel multifunctional biocatalyst. BMC Biotechnology 2025; 25: 27 (https://doi.org/10.1186/s12896-025-00959-5)	4.8
24.	Salah Ud Din, Ayesha Israr, Sadia Jabeen, Qurat ul Ain Rana, Salah Ud Din, Zhang Kun, Samiullah Khan, Fariha Hasan, Malik Badshah, Yongjin J. Zhou, Aamer Ali Shah . Production of free fatty acids from alkaline organosolvent pretreated sugarcane bagasse and trash by yeast <i>Pichia pastoris</i> . Waste and Biomass Valorization 2025; 16: 4981 – 4994. (https://doi.org/10.1007/s12649-025-02963-4)	3.2
25.	Muhammad Adil Nawaz Khan, Amina Khan, Arooj Ul Mishqat, Sayed Muhammad Ata Ullah Shah Bukhari, Abdul Haq, Mahwish Ali, Samiullah Khan, Aamer Ali Shah , Naeem Ali, Malik Badshah. Effect of different Parameters on Biogas Production during Next Generation Digestion, Anaerobic Digestion Coupled with Microbial Electrolysis Cell. Renewable Energy 2025; 243: 15 (122620) (https://doi.org/10.1016/j.renene.2025.122620)	9.1
26.	Aneela Nawaz, Nauman Ahmed Khalid, Alina Majid, Muqaddas Shahzadi, Sabeena Zafar, Muhammad Ismail Khan, Nasir Khan, Ali Khalid, Aamer Ali Shah , Malik Badshah and Samiullah Khan. Characterization of bacteriophages PAA and PAM and evaluation of their antibiotic synergy against <i>Pseudomonas aeruginosa</i> PAZMYU isolated from urine sample. BMC Microbiology (2025) 25:605 (https://doi.org/10.1186/s12866-025-04195-x)	5.4
27.	H. Masood, A. S. R. Duarte, A. Akbar, S. H. Abbas, M. Badshah, A. A. Shah and S. Khan. The Assessment of Antibiotics Usage and Disease Trends in Commercial Broiler Farms of Potohar Region in Pakistan: Implications for Food Safety. Journal of Animal and Plant Sciences 2025; 35 (6). (https://creativecommons.org/licenses/by/4.0/)	0.6
28.	Gohar Khadim, Aamer A. Shah , Aayesha Riaz, Arfan Yousaf, Mahwish Ali, Mian Muhammad Awais, Muhammad Arif Zafar, Bakhtawar Khadim & Nimra Riaz. Epidemiology of Lumpy Skin Disease Virus in Large Ruminants of Potohar region, Pakistan. Tropical Animal Health and Production 2025; 57, 310. (https://doi.org/10.1007/s11250-025-04557-7)	2.0
29.	Aneela Nawaz, Nauman Ahmed Khalid, Sidra Zaheer, Muhammad Ismail Khan, Ali Khalid, Aamer Ali Shah , Malik Badshah, Samiullah Khan. Isolation and characterization of a potent bacteriophage KA targeting an antibiotic-resistant human pathogenic strain of <i>Klebsiella pneumoniae</i> KP1. Microbial Pathogenesis 2025; 210:108150. (https://doi.org/10.1016/j.micpath.2025.108150)	3.9
30.	Shahzar Khan, Nadia Ilyas, Aneela Nawaz, Muhammad Ismail Khan, Momina Aamir, Nauman Ahmed Khalid, Aamer Ali Shah, Numan Saleh Zada, Ghulam Shabbir, Malik Badshah, Samiullah Khan. Bacteriophage-based vaccination platform for antigen discovery and development of next-generation vaccines. Next Research 2025; 2(4): 100776. (https://doi.org/10.1016/j.nexres.2025.100776)	
31.	Aimon Khan, Kashif Mehmood, Akhtar Nadhman, Sami Ullah Khan, Aamer Ali Shah, Ziaullah Shah. Microbial Production of Keratinase from <i>Bacillus velezensis</i> strain MAMA: A Novel Enzyme for Eco-Friendly Degradation of Keratin Waste. Helyon 2024; 10: 12 (e32338) (https://doi.org/10.1016/j.heliyon.2024.e32338)	3.9
32.	Sadia Mehmood Satti, Muzna Hashmi, Mishal Subhan, Muhammad Adnan Shereen, Adham Fayad, Aamer Ali Shah , Asim Abbasi. Bio-upcycling of plastic waste: A sustainable innovative approach for circular economy. Water Air & Soil Pollution 2024; 235:382.	3.5

33.	Aneela Nawaz, Nauman Ahmed Khalid, Sabeena Zafar, Alina Majid, Muqaddas Shahzadi, Sheharyar Saleem, Aamer Ali Shah , Malik Badshah, Samiullah Khan. Phage therapy as a revolutionary treatment for multidrug-resistant <i>Pseudomonas aeruginosa</i> infections: A narrative review. Microbe 2024; 2, 100030. (https://doi.org/10.1016/j.microb.2023.100030)	3.9
34.	Mehmoona Sharif, Aneela Nawaz, Shayan Naeem, Umme Habiba Saeeda, A. Farid, Noman Saleh Zada, Aamer Ali Shah , Malik Badshah, Alharbi MT, Tarabulsi MK, Selim S, Samiullah Khan. Pharmaceutical and Nutraceutical Importance of Bioactive Metabolites from Macrofungi. Journal of Biological Regulators and Homeostatic Agents. 2024, 38(5), 3621-3643. (https://doi.org/10.23812/j.biol.regul.homeost.agents.20243805.287)	3.2
35.	Laiq Zada, Sana Imtiaz, Muhammad Saleem, Aamer Ali Shah , Shahzad Anwar. In vitro study: methylene blue-based antibacterial photodynamic inactivation of <i>Pseudomonas aeruginosa</i> . Applied Microbiology and Biotechnology 2024; 108:169. (https://doi.org/10.1007/s00253-024-13009-5)	4.7
36.	Sanam Islam Khan, Miray Sahinkaya, Dilsat Nigar Colak, Numan Saleh Zada, Uргу Uzuner, Ali Osman Belduz, Sabriye Çanakçı, Alam Zeb Khan, Samiullah Khan, Malik Badshah, Aamer Ali Shah . Production and characterization of novel thermostable CotA-laccase from <i>Bacillus altitudinis</i> SL7 and its application for lignin degradation. Enzyme and Microbial Technology 2024; 172: 110329. (https://doi.org/10.1016/j.enzmictec.2023.110329)	3.9
37.	Nawaz A, Zafar S, Alessa AH, Khalid NA, Muqaddas S, Majid A, Badshah M, Shah AA and Khan S . Characterization of ES10 lytic bacteriophage isolated from hospital waste against multidrug-resistant uropathogenic <i>E. coli</i> . Frontiers in Microbiology. DOI 10.3389/fmicb.2024.1320974. (https://doi.org/10.3389/fmicb.2024.1320974)	5.8
38.	Salah Ud Din, Kalsoom Kalsoom, Sadia Mehmood Satti, Salah Uddin, Smita V Mankar, Esma Ceylan, Fariha Hasan, Samiullah Khan, Malik Badshah, Ali Osman BELDÜZ, Sabriye Çanakçı, Baozhong Zhang, Javier A. Linares-Pastén, Aamer Ali Shah . Purification and characterization of a cutinase-like enzyme with activity on Polyethylene terephthalate (PET), from a newly isolated bacterium <i>Stenotrophomonas maltophilia</i> PRS8 at mesophilic temperature. Applied Sciences 2023; 13: 3686. (https://doi.org/10.3390/app13063686)	2.9
39.	Aneela Nawaz, Sabeena Zafar, Muqaddas Shahzadi, Sayed Muhammad Ata Ullah Shah Bukhari, Nasir Khan, Aamer Ali Shah , Malik Badshah, Samiullah Khan. Bacteriophages: An Overview of the Control Strategies against Phytopathogens. Egyptian Journal of Biological Pest Control 2023; 33, 108.	2.5
40.	Anees Fatima, Muhammad Ibrahim, Adil Naseer, Arshid Pervez, Muhammad Asad, Aamer Ali Shah , Fariha Hasan, Wadi B. Alonazi, Ifra Ferheen, Samiullah Khan. Identification, Genome Sequencing, and Characterizations of <i>Helicobacter pylori</i> Sourced from Pakistan. Microorganisms 2023. 2023, 11, 2658. (https://doi.org/10.3390/microorganisms11112658)	4.7
41.	Abdul Haq, Ayesha Malik, Alam Khan, Joseph E. Weaver, Ling Wang, Haji Khan, Samiullah Khan, Aamer Ali Shah , Safia Ahmed, Asif Jamal, Francis L. de los Reyes III, Malik Badshah. Effect of removal of inhibitors on microbial communities and biogas yield of <i>Jatropha curcas</i> seeds during continuous anaerobic digestion. Journal of Cleaner Production 2023; 426: 139154. (https://doi.org/10.1016/j.jclepro.2023.139154)	10.7
42.	Marium Saba, Afsheen Akhter, Humair Ahmed, Zahid Mehmood, Anum Khan, Numan Saleh Zada, Malik Badshah, Fariha Hasan, Aamer Ali Shah , Samiullah Khan. Sustainable valorization of chicken feathers and grocery waste as organic fertilizer and its impact on yield and quality of spinach (<i>Spinacia oleracea</i>) plant. Communications in Soil Science and Plant Analysis 2023; 54:21, 2995-3005 (https://doi.org/10.1080/00103624.2023.2253842)	1.9
43.	Anum Khan, Samiya Siddiqui, Ubaid Ur Rahman, Ali Osman Belduz, Aamer Ali Shah , Malik Badshah, Fariha Hasan, Samiullah Khan. Enzymatic Modification of Maize Flour Improves its Functional Properties, Digestion Resistibility, and Antioxidant Potential. Journal of Food Measurement & Characterization 2023; 17:6109–6124. (https://doi.org/10.1007/s11694-023-02072-7)	3.6
44.	Abdul Haq, Mian Laiq Ur Rehman, Alam Khan, Wasim Sajjad, Haji Khan, Samiullah Khan, Aamer Ali Shah , Fariha Hasan, Safia Ahmed, Arshad Islam, Malik Badshah, Tawaf Ali Shah, Turki M Dawoud, Mohammed Bourhia. Production, optimization and physicochemical characterization of biodiesel from seed oil of indigenously grown <i>Jatropha curcas</i> . Frontiers in Energy Research, section Bioenergy and Biofuels 2023; 11:1225988. (https://doi.org/10.3389/fenrg.2023.1225988)	3.858
45.	Ubaid Ur Rahman, Salma Qasim, Numan Saleh Zada, Sohail Ahmad, Aamer Ali Shah , Malik Badshah, Fariha Hasan, Samiullah Khan. Evaluation of agricultural wastes as a sustainable carbon source for the	1.3

	production of β -glucosidase from <i>Bacillus stercoris</i> , its purification and characterization. Pakistan Journal of Agricultural Sciences 2023; 60: 367-375. (http://dx.doi.org/10.21162/PAKJAS/23.1061)	
46.	Asim Ur Rahman, Aftab Ali, Faisal Ahmad, Sajjad Ahmad, Metab Alharbi, Abdullah Fayeze Alasmari, Amna Fayyaz, Qurat ul ain Rana, Samiullah Khan, Fariha Hasan, Malik Badshah, Aamer Ali Shah . Unraveling the Radioprotective Mechanisms of UV-Resistant <i>Bacillus subtilis</i> ASM-1 Extracted Compounds through Molecular Docking. Pharmaceuticals 2023; 16(8), 1139; (https://doi.org/10.3390/ph16081139)	5.7
47.	Martin Koller, Kenichiro Matsumoto, Zhanyong Wang, Fan Li, Aamer Ali Shah . Biodegradation of plastics. Frontiers in Bioengineering and Biotechnology 2023; 11:1150078. (doi: 10.3389/fbioe.2023.1150078)	5.8
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124.	Muzna Hashmi, Tahir Kamal Khan, Waqas Khan, Fariha Hasan, Abdul Hameed, Samiullah Khan, Malik Badshah, Aamer Ali Shah . Comparison between a Newly Isolated Yeast Strain and Lalvin EC-1118 for Enhanced Ethanol Yield from Sugarcane Molasses Employing Batch and Modified Fed-Batch Fermentation. Journal of Biobased Materials and Bioenergy 2018; 12:134-142.	0.687
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	lignocellulosic biomass. International Journal of Green Energy 2017; 14:632-637	
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176.	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 <i>Helicobacter pylori</i> . Pakistan Journal of Zoology 2011; 43(3), 427-435.	0.687
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190.	Shah, A. A. , Hasan, F., Hameed, A., Ahmed, S. Biological degradation of plastics: a comprehensive review. Biotechnology Advances 2008; 26: 246-265.	17.681
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	Total	>800

9. INTERNATIONAL CONFERENCES ATTENDED (ORAL/POSTERS)

1. Academic Lecture on “Microbial remediation of industrial wastewater: A sustainable solution to water pollution”, organized by Chinese Academy of Sciences, Beijing (August 15, 2025)
2. Invited Speaker in seminar on “Biomass Valorization in to Valuable Materials”, organized by Hubei University of Technology, Wuhan, China (July 11-17, 2024)
3. Keynote speaker at Pakistan-China collaborative workshop on Biomanufacturing held at Dalian Institute of Chemical Physics (DICP), China December 14-15, 2023.
4. Keynote Speaker at 8th Multi Disciplinary Student Research International Conference at University of Wah held on December 06-07, 2023.
5. Wasim Sajjad, Fariha Aman Nazir, Iffat Aziz, Saira Bano, Fariha Hasan, **Aamer Ali Shah**. Anti-proliferative and Anti-oxidant Activities of Prodigiosin Extracted from Radio-resistant *Streptomyces* sp. strain WMA-LM31. ASM Microbes 2018 organized by American Society of Microbiology held on June 07-11, 2018 at Georgia World Congress Center, Atlanta, USA.
6. Wasim Sajjad, Manzoor Ahmed, Salman Khan, Sunniya Ilyas, Fariha Hasan, **Aamer Ali Shah**. Relationship between carotenoid pigments and resistance to ultra-violet radiation in newly isolated *Deinococcus* sp. strain WMA-LM9. Extremophiles 2016: 11th International Congress on Extremophiles held on September 12-16, 2016, Kyoto, Japan.
7. **Aamer Ali Shah**, Ahmed Nawaz, Fariha Hasan. Purification and characterization of a depolymerase enzyme from *Brevundimonas* sp. that degrade aliphatic polyesters. VI International Conference on Environment, Industrial and Applied Microbiology (BioMicroWorld 2015) October 28-30, 2015, Barcelona, Spain.
8. 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.
9. **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.
10. **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.
11. **Aamer Ali Shah**, Akhter Nadeem, Fariha Hasan, Z. Shah, A. Hameed. Isolation of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) depolymerase producing *Aspergillus fumigatus* from soil. 9th International Mycological Congress, August 1-6, 2010, Edinburgh, UK.
12. **Aamer Ali Shah**, Sumaira Shah, Abdul Hameed, Fariha Hasan. Factors affecting biodegradation of poly (3-hydroxybutyrate) 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.
13. 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.
14. **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.
15. 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.
16. 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.
17. 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.
18. 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.

19. 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.
20. **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 of Genetic Engineering and Biotechnology on “Genomics, Bioinformatics, Biotechnology & Economic Development”, organized by Centre for Molecular Genetics, University of Karachi in collaboration with Kohat University of Science & Technology, Kohat, held during December 4-8, 2005.

10. CONFERENCES/WORKSHOPS ORGANIZED

1. Member Scientific Organizing Committee in upcoming Eurasian Congress on Molecular Biotechnology going to be held at Karadeniz Technical University, Trabzon, Turkey on September 19-21, 2019. Details could be accessed through the following link: <http://ecomb.ktu.edu.tr/committees/#1548923201452-80a2b935-1be4>
2. Organizing Faculty in 2nd National Training workshop on “Enzyme Engineering: An Efficient Tool to Improve Properties of Industrial Biocatalysis” organized by National Institute of Biotechnology and Genetic Engineering (NIBGE), Faisalabad on December 5-7, 2016.
3. 6th International Biennial Conference of Microbiology organized by Department of Microbiology, Quaid-i-Azam University, Islamabad and Pakistan Society for Microbiology in collaboration with Higher Education Commission, Pakistan, held during March 18-21, 2007.
4. Training programme on “Recognition and identification of pirated and counterfeit CDs and DVDs, organized by IPO-Pakistan in cooperation with International Federation of The Phonographic Industry (IFPI) and Motion Picture Association (MPA), held during December 17-18, 2006.
5. WIPO National Workshop on “Trademarks and The Madrid System” in collaboration with Intellectual Property Organization and European Union, Pakistan, held during December 4-5, 2006.
6. Workshop on Biochemical Engineering and Fermenter Applications in collaboration with Bioengineering Switzerland at the Department of Microbiology, Quaid-i-Azam held during August 15, 2006.
7. Workshop on “Identification, maintenance and preservation of microorganisms” organized by Department of Microbiology, Quaid-i-Azam University, Islamabad, held during May 10-12, 2004.

11. WORKSHOPS/TRAINING COURSES PARTICIPATED

1. Basic I.T. Training course at University of Lahore, Islamabad, organized by Pakistan Computer Bureau, Ministry of Information Technology, Islamabad, held during November 20 to December 16, 2006.
2. National Training Workshop on “Protection of Intellectual Property Rights in the use of Information Technologies (ICTs), Islamabad, organized by Pakistan National Commission for UNESCO, held during December 19-22, 2006.
3. Certificate course on “Intellectual Property Rights” attended at Faculty of Management Sciences, International Islamic University, Islamabad, held during June 27 to July 10, 2006.
4. Training workshop and served as Lab Technician in field activities on “National Nutrition Survey 2001-2002, organized by Pakistan Institute of Development Economics, Government of Pakistan in collaboration of UNICEF, Pakistan, held during September 03 to October 30, 2001.
5. Training course on “NIH/MoH/WHO Antimicrobial Susceptibility Testing”, organized by National Institute of Health in collaboration with WHO, Pakistan held during October 28-30, 1999.

12. EXPERIENCE OF WORKING WITH INTERNATIONAL RESEARCHERS

No.	International Bodies	Institution	Purpose of work
1	Prof. Zhi Zhou	Purdue University, USA	1. Joint research collaboration 2. Joint research publications 3. Students exchange for learning latest research techniques and capacity building
2.	Prof. Zhihui Bai	RCEES, Chinese Academy of Sciences, Beijing	4. Joint research collaboration 5. Joint research publications
3.	Prof. Javier A. Linares-Pastén	Department of Chemistry, Lund University, Sweden	1. Joint research collaboration 2. Joint research publications 3. Students exchange for learning latest research techniques and capacity building

4.	Prof. Yongjin Zhou	Chinese Academy of Sciences, Dalian, China	1. Joint research collaboration 2. Bilateral visit of research facilities for sharing experiences 3. Students exchange for learning latest research techniques and capacity building
5.	Prof. Rafael Auras	Michigan State University, Michigan, USA	1. Joint research collaboration 2. Bilateral visit of research facilities for sharing experiences 3. Students exchange for learning latest research techniques and capacity building 4. Joint research publications
6.	Prof. Toshiaki Nakajima-Kambe	University of Tsukuba, Japan	1. Joint research collaboration 2. Bilateral visit of research facilities for sharing experiences 3. Mutual exchange of students for learning latest research techniques and capacity building 4. Joint research publications
7.	a. Prof. Ali Osman Belduz b. Prof. Sabriye Canakci	Karadeniz Technical University, Trabzon, Turkey	1. Joint research collaboration 2. Bilateral visit of research facilities for sharing experiences 3. Mutual exchange of students for learning latest research techniques and capacity building 4. Joint research publications
8.	Prof. Steven Ripp	University of Tennessee, Knoxville, USA	1. Joint research collaboration 2. Visit of research facilities for sharing experiences 3. Mutual exchange of students for learning latest research techniques and capacity building 4. Joint research publications
9.	Prof. Arthur J. Ragauskas	University of Tennessee, Knoxville, USA	1. Joint research collaboration 2. Joint research publications

13. PH.D/M.PHIL/BS STUDENTS SUPERVISED

Students	Supervised	Under Supervision
Ph.D	22	05
M.Phil	100	07
BS	50	08

14. PH.D SUPERVISED

No.	Name	Thesis Title	Year
1	Tayyaba Alam	Purification and Characterization of Extremolytes from UV-resistant Bacteria and their Application as UV Stress Repressor in Desert Plants	2026
2	Gohar Khadim	Epidemiology and Phylogenetic Analysis of Lumpy Skin Disease Virus (LSDV) in Large Ruminants in Potohar Region, Pakistan.	2026
3	Salahuddin	Process Optimization for the Production of Fatty Acid Derivatives by <i>Komagataella phaffii</i> using Sugarcane Bagasse and Trash	2026
4	Alam Zeb	Bioremediation of Lignin in Pulp and Paper Mill Effluents by Indigenous Fungal Isolates	2026

5	Asim ur Rehman	Studies on Siderophores from Radio-resistant Bacteria Isolated and their Bioactive Potential	2024
6	Salahuddin	Biodegradation of Polyethylene Terephthalate by Bacteria Isolated from Soil.	2023
7	Kalsoom	Role of Metallo-resistant Microorganisms in Remediation of Heavy Metals using Biofilter	2022
8	Jadoon Khan	Identification and Molecular Characterization of Antigenic Peptides of Echinococcus	2022
9	Sanam Islam Khan	Biodegradation of lignin by bacteria isolate from pulp and paper mill effluent	2021
10	Saba Farooq	Biological Characterization and Comparative Diagnostics of <i>Mycoplasma galisepticum</i> isolates	2021
11	Zainab Khattak	Molecular Epidemiological Studies of Adenovirus Infections in children in Pakistan	2020
12	Pervaiz Ali Sakhi	Diversity of Psychrophilic Bacteria From Batura Glacier Pakistan and Their Potential Industrial Applications	2020
13	Ghufranud Din	Role of Metallo-Resistant Microorganisms in Remediation and Monitoring of Heavy Metals from Industrial Waste	2019
14	Sadia Mehmood Satti	Microbial degradation of polyester based biodegradable plastics	2018
15	Mutiullah	Molecular epidemiology of vancomycin resistant enterococci in hospitalized patients of Rawalpindi/Islamabad	2018
16	Saba Rafique	Seroprevalence and molecular characterization of Infectious bronchitis virus variants from poultry in Pakistan	2018
17	Wasim Sajjad	Production and characterization of extremolytes from indigenous radioresistant microorganisms and their evaluation for potential biotechnological applications	2017
18	Ghulam Mujtaba	Molecular Characterization of Human Cytomegalovirus Strains causing Infections in Immuno-compromised Pakistani population	2017
19	Muhammad Irfan	Cloning, functional expression and site-directed mutagenesis of thermostable xylanases from <i>Geobacillus thermodenitrificans</i>	2017
20	Muzna Hashmi	Enhanced production of biofuel from sugar industry waste	2016
21	Ayesha Aslam	Prevalence, antifungal susceptibility and biofilm characterization of Candida species isolated from Tertiary Care Hospitals, Rawalpindi, Pakistan.	2016
22	Ziaullah Shah	Microbial degradation of polyester polyurethane	2013

15. M.PHIL SUPERVISED

No.	Name	Thesis title	Year
1.	Summaira Shoaib	Investigation for Metallotolerant Microorganisms from Metal Ores and Their Role in Metal Extraction	2026
2.	Rubab Sarwar	Biosynthesis of Polyhydroxyalkanoates (PHAs) by a Newly Isolated <i>Brevibacterium</i> Specie from Plastic Recycling Plant	2026
3.	Mehwish Rao	Extremolytes from UV Resistant <i>Streptomyces</i> specie and its Role in Mitigating Radiation Induced Photodamages	2025
4.	Mowaddah Khan	In Vitro Evaluation of Bioactive Metabolites from UV Resistant Bacterium Isolated from Desert Soil	2025
5.	Kashaf Amin	Enzymatic Hydrolysis of Pretreated Sugarcane Bagasse for Enhanced Bioethanol Yield	2025
6.	Muhammad Usman Qamar	Valorization of Polyethylene Terephthalate Monomers to Polyhydroxyalkanoates by <i>Glutamicibacter</i> Specie	2025
7.	Fareena Rehman	Evaluation of Extremolytes from Ultraviolet Resistant Bacteria as Photo-induced stress protectant on Edible Plants.	2025

8.	Shayan Ahmad	Production and Characterization of Esterase from Polyethylene Terephthalate Degrading Bacterium Isolated from Recycling Industry Waste	2025
9.	Hamna Sajid	Production, Purification and Characterization of Alkaline Phosphatase from Cold Adapted <i>Arthrobacter psychrolactophilus</i> GB17 isolated from Ghulkin Glacier, Hunza	2025
10.	Wasia Farooq	Production and Characterization of Laccase from <i>Trametes Ljubarskyi</i> for the Treatment of Pulp and Paper Mill Effluent	2024
11.	Arjmand Shamraiz	Production and Characterization of Cutinase from <i>Bacillus altitudinis</i> Strain CS2 that Degrade Polyethylene Terephthalate (PET) at Mesophilic Temperature	2024
12.	Nadia Hujasta	Purification and Characterization of Cellulase from <i>Alcaligenes</i> Strain CS6 Isolated from Compost Soil	2024
13.	Afaq Ahmad	Invitro Evaluation of Bioactive Metabolites from UV-resistant Bacterial strain Isolated from Cholistan Desert, Pakistan.	2024
14.	Asma Mukhtiar	Evaluation of Lignin Degradation Potential of Fungi Isolated from Pulp and Paper Mill Effluent	2024
15.	Laiba Raees	Production and Characterization of Cutinase from Polyethylene Terephthalate (PET) Degrading Bacterial Strain Isolated from Compost Soil	2024
16.	Noor ul Huda	Isolation of Thermophilic Bacteria from Hot Spring and Exploring Their Role in Lignin Valorization	2023
17.	Yawar Saeed	Purification and Characterization of Cellulases and Xylanases from Bacterial Isolates for Hydrolysis of Pretreated Sugarcane Bagasse	2023
18.	Shayan Naeem	Pharmacological Properties of Bioactive Metabolites from Wild Mushrooms of Azad Jammu and Kashmir Region	2023
19.	Muhammad Abdullah	Production and Characterization of Extremolytes from Radioresistant Bacteria of Garam Chashma, Chitral, Pakistan	2023
20.	Sadiq Ahmed	Production of Siderophores from Radioresistant <i>Aspergillus niger</i> and its Role in Heavy Metal Chelation	2023
21.	Zulqarnain Zulfiqar	Role of Lignin Degrading Microorganisms in Treatment of Pulp and Paper Mill Effluent using Lab-Scale Bioreactor	2023
22.	Laiq Zada	In vitro Inactivation of Antibiotic Resistant Bacteria using Antibacterial Photodynamic Therapy (APDT)	2023
23.	Hafsa Atique	Production and Characterization of Cutinase from Fungal Species that Degrade Polyethylene Terephthalate (PET) at Mesophilic Temperature	2022
24.	Aman Hanif	Bioremediation of Chromium from Industrial Wastewater using Packed-Bed Biofilter	2022
25.	Ayesha Israr	Enzymatic Hydrolysis of Alkali-Organosolvent Pretreated Sugarcane Bagasse for Enhanced Yield of Fermentable Sugars	2022
26.	Mehlayl Tariq	Production and Characterization of Lignin-Degrading Manganese Peroxidase from <i>Bacillus</i> Specie Isolated from Pulp and Paper Mill Effluent	2022
27.	Nazia Shah	Role of Exopolysaccharides from Metallo-resistant Bacteria in Removal of Heavy Metals from Industrial Waste	2022
28.	Madiha Siddiqui	Elucidation of Ligninolysis Mechanism of <i>Bacillus</i> sp. Isolated from Pulp and Paper Mill Effluent	2022
29.	Hafiza Zirwa Noor	Biodegradation of Polyethylene Terephthalate (PET) by Fungi Isolated from Soil.	2022
30.	Sidra Nazir	Production of Lignin Degrading Peroxidase from <i>Bacillus</i> sp. Strain BL5 isolated from Pulp and Paper Mill Effluent	2021
31.	Aftab Ali	Extraction and Characterization of Siderophores from Radioresistant Bacterium, <i>Bacillus thaonhiensis</i> Strain TMM-8	2021
32.	Afshan Batool	Bioremediation of Chromium by Bacteria Isolated from Industrial Waste	2021
33.	Risfa	Purification and Characterization of Poly(Ethylene Terephthalate) Degrading Cutinase from <i>Pseudomonas aeruginosa</i> Strain S4	2021

34.	Mahnoor Nadeem	Invitro Biological Activities of Cellular Extract from Radio-resistant <i>Micromonospora aurantiaca</i> strain TMC-15 Isolated from Thal Desert, Pakistan	2019
35.	Sobia Nasr	Purification and Characterization of L-asparaginase from <i>Bacillus</i> sp. strain PB-15 Isolated from Soil	2019
36.	Ayesha Ahmed Choudhry	Extraction and Characterization of Bioactive Compounds from Radio-resistant Bacterium, <i>Bacillus indicus</i> strain TMC-6	2019
37.	Asaf Zarin	Biodegradation of Lignin by Indigenous Bacterial isolates from Pulp and Paper Mill effluent	2019
38.	Hazrat Noor	Purification and Characterization of Poly (lactic acid) degrading Esterase from Newly Isolated Bacterial Strain <i>Pseudomonas aeruginosa</i> S3	2019
39.	Asifa Farooqi	Characterization of mercury resistant bacterial strains from Industrial Waste and its Potential Role in Mercury Transformation	2019
40.	Habiba Nasir	Isolation And Characterization Of Lignin Degrading Fungi From Paper And Pulp Mill Effluents	2019
41.	Tayyaba Alam	Extraction and purification of bioactive compounds from UV-resistant bacterial strain isolated from Thal Desert, Pakistan	2018
42.	Rameesha Hayat	Isolation and characterization of metallo-resistant microorganisms from soil and evaluation of their metal chelation potential	2018
43.	Salahuddin	Biodegradation of polyethylene terephthalate (PET) by bacteria isolated from marine water	2018
44.	Madiha Azam	Biological activity of cellular extract from radio-resistant bacterium <i>Kocuria turfanensis</i> WMA-BD1 isolated from Desert Soil	2018
45.	Syed Mohammad Abrar Hussain	Isolation and characterization of metallo-resistant fungus and its role in leaching of metals from contaminated soil	2018
46.	Syed Izhar Hussian	Isolation and identification of metallo-resistant bacteria from metal polluted soil and their role in metals removal	2018
47.	Amna Mumtaz Abbasi	Degradation of poly(lactic acid) PLA by a newly isolated bacterium from compost soil	2018
48.	Jawairia Kiran	Immobilization of partially purified β -1-4 xylanase from <i>Bacillus licheniformis</i> and <i>Thermomyces lanuginosus</i>	2018
49.	Salahuddin	Production and characterization of xylanase from <i>Thermomyces lanuginosus</i> isolated from hot spring	2017
50.	Misbah Ayub Awan	In vitro biological activities of cellular extract from a radio-resistant <i>Oscillatoria</i> sp. strain WMA-CY1 isolated from fresh water	2017
51.	Syeda Amna Farooq	Biodegradation of aliphatic polyesters by a fungus <i>Aspergillus fumigatus</i> isolated from soil	2017
52.	Ameenullah	Production, purification and characterization of xylanase enzyme from bacterial strains isolated from hot springs	2017
53.	Ambreen Zubair	Production and characterization of cellulase from <i>Bacillus subtilis</i> ML1 and its application in ethanol production	2017
54.	Sundas Qadir	Evaluation of extremolytes for their anti-oxidant potential from newly isolated radio-resistant bacterium <i>Stenotrophomonas</i> sp. WMA-LM19	2017
55.	Sehrish Asghar	Production, optimization and characterization of poly(3-hydroxybutyrate-co-hydroxyvalerate) depolymerase from <i>Penicillium oxalicum</i> isolation from soil.	2016
56.	Suraiya Anwar Wazir	Production and characterization of phosphatases from newly isolated soil bacterium.	2016
57.	Faryal Ghaffar	Isolation of fungal strain from environmental samples and its potential role in leaching of metal ions	2016
58.	Sunniya Ilyas	Biological activity of carotenoid pigment extracted from radio-resistant <i>Deinococcus</i> sp. strain WMA-LM9	2016
59.	Muhammad Osman	Degradation of polyester-based biodegradable plastic by <i>Aspergillus fumigatus</i> isolated from soil	2016

60.	Hasan Mustafa	Production of L-asparaginase enzyme from newly isolated <i>Bacillus</i> sp. from soil.	2016
61.	Salman Khan	Phylogenetic diversity of ultra-violet radiation (UV-R) resistant bacteria isolated from desert	2016
62.	Ayesha Luqman	Isolation and Characterization of a Polyester Degrading Fungal Strain from Soil.	2015
63.	Manzoor Ahmed	Extraction of an Anti-oxidant from Newly Isolated Radioresistant <i>Deinococcus</i> sp. Strain MRL-WMA From Environmental Samples.	2015
64.	Maryam	Isolation and Characterization of Phosphate Solubilizing Bacterium from Soil.	2015
65.	Arfa Hasan	Studies on Investigation of Phosphate Solubilizing Efficiency of a Fungal Strain Isolated from Soil.	2015
66.	Maryam Tahir Siddiqui	Sequence analysis of fluconazole resistant ERG11 gene among clinical MDR <i>Candida</i> isolates	2015
67.	Saifullah	Production and characterization of xylanases from <i>Bacillus pumilus</i> strain isolated from water	2015
68.	Fakhra Hanif	L-asparaginase production from a newly isolated bacterium from soil	2015
69.	Matiullah	Seroprevalence of Hepatitis C virus infection in Kohat Division of Khyber Pukhtoon Khwah	2015
70.	Wasim Sajjad	Isolation and characterization of acidophiles from acid mine drainage and black shale from Khala Chatta, Khyber Pukhtoon Khwa	2014
71.	Samia Jabeen Umer	Prevalence and antibiotic susceptibility of <i>Streptococcus</i> species in specimens collected from a tertiary care hospital, Islamabad	2014
72.	Sabir Nawaz	Prevalence of vancomycin resistant enterococci in tertiary care hospitals of Islamabad/Rawalpindi	2014
73.	Lubna Kanwal	Isolation and identification of polycaprolactone degrading thermophiles from hot water spring	2014
74.	Ahmed Nawaz	Isolation of aliphatic polyester degrading bacterial strains from soil	2014
75.	Sumayia Sheikh	Prevalence and antimicrobial susceptibility pattern of <i>Salmonella typhi</i> and <i>Salmonella paratyphi</i> in clinical samples from a tertiary care hospital in Islamabad	2014
76.	Sidra Batool	Prevalence of multi-drug resistant gram-negative bacilli in urinary tract infection	2014
77.	Kanwal Rafique	Species distribution and antifungal susceptibility of <i>Candida</i> isolates among hospital and community acquired infection	2013
78.	Ammara Tayyab	Production of cellulase enzyme from a thermophilic bacterial strain isolated from hot water spring	2013
79.	Hasan Wasim	Detection of Cytomegalovirus among pregnant women	2013
80.	Saddiq Akbar	Purification and characterization of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) depolymerase from <i>Streptomyces</i> sp. AF111	2011
81.	Samman Bashir	Characterization of PHB depolymerase produced by <i>Actinomyces</i> sp. AF-555	2011
82.	Shahzeera Begum	Prevalence of multidrug resistant <i>Acinetobacter baumannii</i> in hospitalized patients	2011
83.	Nazif Ullah Khan	Detection of Adenoviruses in Hospitalized Children's with Acute gastroenteritis under the Age of five years	2011
84.	Obaid Ullah	Prevalence of vancomycin resistant enterococci in hospitalized patients in Islamabad, Pakistan	2010
85.	Sabir Rehman	Comparative study of different serological tests for diagnosis of Brucellosis in Buffaloes	2010
86.	Mohsin Gulzar	Degradation of polyester polyurethane by newly isolated bacterial consortium from soil	2010

87.	Khaliq Noor	Antimicrobial susceptibility of biofilm forming <i>Pseudomonas aeruginosa</i> isolated from hospital environment	2010
88.	Muttiullah	Isolation of polyurethane degrading <i>Bacillus</i> sp. from soil	2010
89.	Akhtar Nadhman	Production and purification of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) depolymerase from <i>Aspergillus fumigates</i>	2010
90.	Faiza Safeer	Comparative study on susceptibility of ESBL and non-ESBL producing <i>Klebsiella pneumoniae</i> against non- β -lactam antibiotics	2010
91.	Zainab Zubair	Isolation of multi-drug resistant gram negative bacilli from post operative surgical wounds	2010
92.	Faizul Amin	Isolation identification and characterization of poly(3-hydroxybutyrate) degrading <i>Streptomyces</i> sp.	2009
93.	Shah Faisal	Isolation, identification and characterization of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) degrading <i>Aspergillus fumigatus</i>	2009
94.	Mohsin Khurshid	Association of Diabetes Mellitus and Chronic Hepatitis B Virus Infection.	2009
95.	Adil Farooq Lodhi	Optimization of Culture Conditions for the Production of Poly (3-Hydroxybutyrate) Depolymerase from <i>Aspergillus</i> Spp	2009
96.	Sadaf Bakhtiar	Molecular characterization of indigenous extended-spectrum beta-lactamases producing <i>Escherichia coli</i> and <i>Klebsiella pneumoniae</i>	2008
97.	Haji Khan	Purification, immobilization and stability of lipase produced by <i>Bacillus</i> sp. FH5	2008

16. 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).

17. BOOK CHAPTER

Ameet Kumar, Aneela Nawaz, Usman Ali Chaudhry, **Aamer Ali Shah**, Malik Badshah, Samiullah Khan. Biotechnological Applications of Secondary Metabolites from Microalgae. 2023. Algal Metabolites, Edition 1, Apple Academic Press. ISBN 9781003346081

18. COURSES TAUGHT

Course Title	Credit Hours	M.Sc./M.Phil/PhD
Fundamentals of Microbiology	3	BS
Virology	3	BS
Cell Biology	3	BS
Industrial Microbiology	3	BS
Soil Microbiology	3	BS
Microbial Diversity	3	BS
Mycology	3	BS
Environmental Microbiology	3	BS
Extremophiles	3	M.Phil/Ph.D
Environmental Pollution	3	M.Phil/Ph.D
Water and Wastewater Treatment Processes	3	M.Phil/Ph.D
Biodegradation	3	M.Phil/Ph.D
Biosafety and Biosecurity	3	M.Phil/Ph.D

19. OTHER ADMINISTRATIVE ACTIVITIES/COMMUNITY WORK

A. Departmental Level:

- i. Member M.Sc, M.Phil and Ph.D Admission Committee
- ii. Member Board of Studies
- iii. Course Coordinator (2014-15)
- iv. Student Advisor (2014-2016)
- v. Incharge Non-teaching Staff (2017-18)

B. University Level:

- i. Member Board of Faculty
- ii. Member Academic Council, Quaid-i-Azam University
- iii. Member Scholarship Committee
- iv. Executive Member, Academic Staff Association (2019-20)
- v. Member Committee for Need Based Financial Assistance
- vi. Member Bioethics Committee, QAU
- vii. Member Committee on Revision of Criteria for Performance Based Increments (Faculty of Biological Sciences; 2014-15)

C. National Level

- i. Member Board of Studies (Department of Microbiology, QAU; Faculty of Sciences, AIOU, Sarhad University & COBAM, Peshawar University; Haripur University)
- ii. Member Departmental Tenure Review Committee (DTRC), QAU; COBAM, Peshawar University; Department of Microbiology, Kohat University; Shaheed Benazir Bhutto Women University, Peshawar, University of Haripur
- iii. External examiner for Center of Biotechnology and Microbiology, Peshawar, Abdul Wali Khan University, Malakand University, KPK; COMSATS University, Islamabad; NUST, Islamabad; Haripur University
- iv. Reviewer of research grants: Higher Education Commission (HEC), Pakistan Science Foundation (PSF)
- v. Member Zoological Society of Pakistan

D. International Level

- i. Member, American Society of Microbiology (Global Outreach Program)
- ii. Member Pakistan Society for Microbiology (PSM), Karachi
- iii. Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEs), Singapore
- iv. Reviewer of Peer reviewed International Journals: Nature; International Journal of Biological Macromolecules; Molecules; Science of the Total Environment; Environmental Technology; Journal of Basic Microbiology; International Biodeterioration & Biodegradation; International Journal of Environmental Science and Technology; Polymer Degradation and Stability; Process Biochemistry; Enzyme and Microbial Technology; FEMS Microbial Ecology; Mycologia; Journal of Biosciences and Bioengineering; PLoS One; Journal of Pakistan Chemical Society and others.