

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 16+ 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

3. 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

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

Title	Organization	Years
Professor	Quaid-i-Azam University, Islamabad, Pakistan	Feb. 2020 – Till date (3 Year 6 Months)
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)

5. i. ADMINISTRATIVE EXPERIENCE: >10 Years

No.	Job Title	Organization	Duration
1	Chairman	Department of Microbiology, Quaid-i-Azam University, Islamabad	Mar. 2020 – Mar. 2023 (3 Years)
2	Coordinator BS Program	Quaid-i-Azam University, Islamabad	Jan. 2018 – Jan. 2021 (3 Years)
3	Incharge Faculty Residences	Quaid-i-Azam University, Islamabad	Nov. 2014 – May 2019 (4.5 Years)
4	Incharge Store & Purchases	Quaid-i-Azam University, Islamabad	Jan. 2018 – Jan. 2020 (2 Years)
5	Assistant Director	Intellectual Property Organization, Cabinet Division, Islamabad	June 01, 2006 – July 10, 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)

6. PUBLICATIONS (IMPACT FACTOR AND CITATION)

Publications	Impact Factor	Citations	H-index	i10-index
>190	>600	>14500	46	126

7. 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

8. 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

9. 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

10. MANUSCRIPT SUBMITTED TO THE JOURNALS (UNDER REVIEW)

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 2025 (Under Review) Reference number: NAT WATER-25-1353.	24.1
2.	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 2025 (Under Review) . Manuscript ID: 6431df69-ccf9-4da3-8d76-7098f5d0e2bd	4.3

11. PUBLICATIONS IN PEER REVIEWED JOURNALS (Total No.: >190; Impact Factor: >800)

No.	Publications	Impact Factor
3.	Jiang Peng, Xu Wang, Shengjun Xu, Xuliang Zhuang, Cancan Jiang. The nitrite bottleneck revisited: Exploring the potential of phage-mediated microbial regulation for advancing novel nitrogen removal strategies. NPJ Clean Water 2025 (https://doi.org/10.1038/s41545-025-00543-6)	14.1

4.	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 2025; 444:133936. (https://doi.org/10.1016/j.biortech.2026.133936)	9.5
5.	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)	2.8
6.	Alam Zeb Khan, Salah Ud Din, Mehmoona 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)	2.6
7.	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
8.	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)	6.1
9.	Kalsoom Kalsoom, Salah Ud Din, Esmā Ceylan, Fariha Hasan, Samiullah Khan, Malik Badshah, Sabriye Çanakçı, <i>Ali Osman Belduz</i> , Aamer Ali Shah . Cloning and expression of chromate reductase from <i>Bacillus paramycooides</i> S48 for chromium remediation. <i>Scientific Reports</i> 2025; 15:18796. (https://doi.org/10.1038/s41598-025-03412-x)	4.3
10.	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 Acid-Producing Bacteria with Multifaceted Plant Growth Promoting Traits for Wheat Growth from Ghulkin Glacier, Pakistan. <i>Journal of Basic Microbiology</i> 2025 (https://doi.org/10.1002/jobm.70017).	3.3
11.	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. <i>Current Microbiology</i> 2025; 82(243) (https://doi.org/10.1007/s00284-025-04194-1)	2.4
12.	Numan Saleh Zada, Ali Osman Belduz, Abdulrahman H. Alessa, Halil Ibrahim Güler, Mine Karaoğlan, 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. <i>BMC Biotechnology</i> 25; 52. (https://doi.org/10.1186/s12896-025-00984-4)	3.6
13.	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. <i>BMC Biotechnology</i> 2025; 25: 27 (https://doi.org/10.1186/s12896-025-00959-5)	3.6
14.	Salah Ud Din, Ayesha Israr, Sadia Jabeen, Qurrat 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> . <i>Waste and Biomass Valorization</i> 2025; 16: 4981 – 4994. (https://doi.org/10.1007/s12649-025-02963-4)	3.2
15.	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. <i>Renewable Energy</i> 2025; 243: 15 (122620) (https://doi.org/10.1016/j.renene.2025.122620)	9.1
16.	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. <i>BMC Microbiology</i> (2025) 25:605 (https://doi.org/10.1186/s12866-025-04195-x)	4.8
17.	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:	0.6

	Implications for Food Safety. Journal of Animal and Plant Sciences 2025; 35 (6). (https://creativecommons.org/licenses/by/4.0/)	
18.	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)	1.8
19.	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)	
20.	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)	
21.	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
22.	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.	3.6
23.	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. The Microbe 2024; 2, 100030. (https://doi.org/10.1016/j.microb.2023.100030)	3.23
24.	Mehmoona Sharif, Aneela Nawaz, Shayan Naem, 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
25.	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)	5.1
26.	Sanam Islam Khan, Miray Sahinkaya, Dilsat Nigar Colak, Numan Saleh Zada, Urgu 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)	3.7
27.	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)	5.2
28.	Salah Ud Din, Kalsoom Kalsoom, Sadia Mehmood Satti, Salah Uddin, Smita V Mankar, Esmá 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)	2.838
29.	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.	2.4
30.	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)	4.6

31.	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
32.	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
33.	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)	3.5
34.	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
35.	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 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)	0.856
36.	Asim Ur Rahman, Aftab Ali, Faisal Ahmad, Sajjad Ahmad, Metab Alharbi, Abdullah Fayez Alasmari, Amna Fayyaz, Qurrat 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)	4.9
37.	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)	5.10
38.	Nosheen Basharat, Jadoon Khan, Ijaz Ali, Aamer Ali Shah . Genetic characterization of human Echinococcosis in Southern Punjab region of Pakistan. Frontiers in Cellular and Infection Microbiology 2023; 13:1141192. (doi: 10.3389/fcimb.2023.1141192)	6.073
39.	Samiya Siddiqui, Anum Khan, Ubaid ur Rehman, Aamer Ali Shah , Malik Badshah, Mujaddad ur Rehman, Azam Hayat, Samiullah Khan. Understanding the inhibitory mechanism of exogenous protein on enzymatic preparation of Resistant starch. Starch 2023; 75(9-10). https://doi.org/10.1002/star.202200264	2.688
40.	Wasim Sajjad, Mahnoor Nadeem, Tayyaba Alam ¹ , Asim ur Rehman, Sumra Wajid Abbasi, Sajjad Ahmad, Ghufuranud Din, Samiullah Khan, Malik Badshah, Sarah Gul, Muhammad Farman, Aamer Ali Shah . Biological Evaluation and Computational Studies of Methoxy-flavones from Newly Isolated Radioresistant <i>Micromonospora aurantiaca</i> Strain TMC-15. Applied Biochemistry and Biotechnology 2023; 195(8):4915-4935. (https://doi.org/10.1007/s12010-023-04517-7)	3.094
41.	Qurrat ul ain Rana, Muhammad Adil Nawaz Khan, Zeshan Shiekh, Saleha Parveen, Safia Ahmed, Muhammad Irfan, Rahul Gauttam, Aamer Ali Shah , Asif Jamal, Samiullah Khan, Malik Badshah. Production of Bioethanol and Biogas from <i>Spirodela polyrhiza</i> in a Biorefinery Concept and Output Energy Analysis of the Process. Biomass Conversion and Biorefinary 2023; 13: 11219-11228. https://doi.org/10.1007/s13399-021-02066-9	4.050
42.	Rameesha Hayat, Ghufuran Uddin, Asifa Farooqi, Abdul Haleem, Salah Ud Din, Fariha Hasan, Malik Badshah, Samiullah Khan, Aamer Ali Shah . Characterization of melanin pigment from <i>Aspergillus terreus</i> LCM8 and its role in cadmium remediation. International Journal of Environmental Science and Technology 2023; 20:3151–3160. (https://doi.org/10.1007/s13762-022-04165-0)	3.519
43.	Noor Hassan, Muhammad Rafiq, Abdul Haleem, Naveed Iqbal, Mohsin Khan, Aamer Ali Shah , and Fariha Hasan. Glaciochemistry and Pigment Producing Ability of Bacteria from the Roof of the World, the Glaciers of Karakoram, Pakistan. Geomicrobiology Journal 2023; 40 (2): 143–151.	2.412

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44.	Sabir Nawaz, Muhammad Rafiq, Ian L. Pepper, Walter Q. Betancourt, Aamer Ali Shah , Fariha Hasan. Prevalence and abundance of antibiotic-resistant genes in culturable bacteria inhabitant of a non-polar Passu glacier, Karakorum Mountains range, Pakistan. <i>World Journal of Microbiology and Biotechnology</i> 2023; 39:94	4.253
45.	Syed Umair Ullah Jamil, Saeed Ullah, Sahib Zada, Muhammad Rafiq, Aamer Ali Shah , and Fariha Hasan. Isolation of Antimicrobial Active Compounds producing <i>Bacillus subtilis</i> Strain from Bat Guano of Kashmir Cave, Pakistan. <i>Geomicrobiology Journal</i> 2023; 40:4, 337-346.	2.412
46.	Yunxia Li, XiaoXin Zhai, Wei Yu, Dao Feng, Aamer Ali Shah , Jiaoqi Gao, Yongjin Zhou. Production of fatty acids from various carbon sources by <i>Ogataea polymorpha</i> . <i>Bioresources and Bioprocessing</i> 2022; 9: 78 (https://doi.org/10.1186/s40643-022-00566-8)	5.5
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155.	Aamer Ali Shah , Satoshi Kato, Noboru Shintani, Numbi Ramudu Kamini, Toshiaki Nakajima-Kambe. Microbial degradation of aliphatic and aliphatic-aromatic co-polyesters. <i>Appl Microbiol Biotechnol</i> 2014; 98: 3437-3447.	5.560
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	newly isolated <i>Aspergillus fumigatus</i> from soil. Pakistan Journal of Botany 2011; 43(2): 1361-1372.	
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	Total	>800

12. INTERNATIONAL CONFERENCES ATTENDED (ORAL/POSTERS)

1. Keynote speaker at Pakistan-China collaborative workshop on Biomanufacturing held at Dalian Institute of Chemical Physics (DICP), China December 14-15, 2023.
2. Keynote Speaker at 8th Multi Disciplinary Student Research International Conference at University of Wah held on December 06-07, 2023.
3. Wasim Sajjad, Fariha Aman Nazir, Iffat Aziz, Saira Bano, Fariha Hasan, **Aamer Ali Shah**. Anti-proliferative and Antioxidant 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.
4. 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.
5. **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.
6. 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.
7. **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.
8. **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.
9. **Aamer Ali Shah**, Akhter Nadhman, 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.
10. **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.

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11. 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.
12. **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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. **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.

13. 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.

14. 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.

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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.

15. EXPERIENCE OF WORKING WITH INTERNATIONAL RESEARCHERS

No.	International Bodies	Institution	Purpose of work
1.	Prof. Zhihui Bai	RCEES, Chinese Academy of Sciences, Beijing	<ol style="list-style-type: none"> 1. Joint research collaboration 2. Joint research publications
2.	Prof. Javier A. Linares-Pastén	Department of Chemistry, Lund University, Sweden	<ol style="list-style-type: none"> 1. Joint research collaboration 2. Joint research publications 3. Students exchange for learning latest research techniques and capacity building
3.	Prof. Yongjin Zhou	Chinese Academy of Sciences, Dalian, China	<ol style="list-style-type: none"> 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.	Prof. Rafael Auras	Michigan State University, Michigan, USA	<ol style="list-style-type: none"> 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
5.	Prof. Toshiaki Nakajima-Kambe	University of Tsukuba, Japan	<ol style="list-style-type: none"> 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
6.	<ol style="list-style-type: none"> a. Prof. Ali Osman Belduz b. Prof. Sabriye Canakci 	Karadeniz Technical University, Trabzon, Turkey	<ol style="list-style-type: none"> 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.	Prof. Steven Ripp	University of Tennessee, Knoxville, USA	<ol style="list-style-type: none"> 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
8.	Prof. Arthur J. Ragauskas	University of Tennessee, Knoxville, USA	<ol style="list-style-type: none"> 5. Joint research collaboration 6. Joint research publications

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

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

17. 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).

18. 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

19. 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

20. 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 (APCBEEES), 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.