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1. ACADEMIC ACHIEVEMENTS

Degree/Certificate	University/College/School	Subjects	Division	Year
Postdoc 2 nd	University of Tsukuba, Japan	Applied & Environmental Microbiology	JSPS Fellowship-	2010-2012
Postdoc 1 st	University of Tsukuba, Japan	Applied & Environmental Microbiology	MIF Japan Fellowship	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 (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)

3. 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 Years 6 Months)
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)

4. PUBLICATIONS (IMPACT FACTOR AND CITATION)

Publications	Impact Factor	Citations	H-index	i10-index
184	>600	>13500	45	121

5. HONORS/AWARDS

No	Title of the Award	Organization
1	Cited in the list of Top 2% Scientist of the World in 2019-2024 https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/7	Stanford University USA
2.	Prof. A. R. Shakoori Gold Medal 2019	Zoological Society of Pakistan
3.	PAS Gold Medal in Biological Sciences 2018	Pakistan Academy of Sciences
4.	Pak-UK Education Gateway Award 2019-20	British Council Pakistan
5.	Collaborative Research Grants (International)	HEC-TUBITAK; PSF-NSFC; HEC-PERIDOT
6.	Travel Grants Award (2013 – 2018)	Higher Education Commission, Islamabad
7.	PCST Research Productivity Award 2010 – 2014	Pakistan Council for Science and Technology
8.	JSPS Postdoctoral Fellowship 2010-2012	Japan Society for Promotion of Science, Japan
9.	International Postdoctoral Fellowship 2008-2009	Matsumae International Foundation, Japan
10	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	In progress
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;
- 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.
- Production of bio-ethanol from lignocellulosic biomass
- Co-utilization of methanol and biomass hydrolysates for production of fatty acids derivatives
- Seroprevalence and molecular characterization of viral infections in animals and poultry population;
- Antimicrobial susceptibility of bacterial and fungal pathogens

8. PUBLICATIONS IN PEER REVIEWED JOURNALS (Total No.: >180; Impact Factor: >600)

No.	Publications	Impact Factor
1.	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. Current Microbiology 2025 (Accepted)	2.6
2.	Xiaoji Liu, Zhihua Wang, Yingying Zhang, Aamer Ali Shah , Chunjie Gong. Microbial strategies on polyhydroxyalkanoates production from food waste to support the circular bioeconomy. International Journal of Biological Macromolecules 2025; 320: 146023. https://doi.org/10.1016/j.ijbiomac.2025.146023	8.7
3.	Ruzhe Zhang, Aamer Ali Shah , Beining Wang, Chunjie Gong. Current progress of <i>p</i> -coumaric acid production using bioengineering technologies. Food Bioscience 2025; 71: 107109.	6.1
4.	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. Scientific Reports 2025; 15:18796. https://doi.org/10.1038/s41598-025-03412-x	4.3
5.	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. Journal of Basic Microbiology 2025 (https://doi.org/10.1002/jobm.70017).	3.3
6.	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 (https://doi.org/10.1007/s00284-025-04194-1)	2.4
7.	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	3.6

	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)	
8.	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)	3.6
9.	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 pastori</i> . Waste and Biomass Valorization 2025 (https://doi.org/10.1007/s12649-025-02963-4)	3.2
10.	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
11.	Aimon Khan, Kashif Mehmood, Akhtar Nadjman, 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
12.	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
13.	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.	3.23
14.	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.	3.2
15.	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.	4.9
16.	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.	3.2
17.	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 Microbiology. DOI 10.3389/fmicb.2024.1320974.	5.2
18.	Salah Ud Din, Kalsoom Kalsoom, Sadia Mehmood Satti, Salah Uddin, Smita V Mankar, Esmā 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.	2.838
19.	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.	2.3
20.	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.	4.5

21.	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. International Journal of Cleaner Production 2023; 426: 139154.	10.2
22.	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. Communication in Soil Science and Plant Analysis 2023; 54:21, 2995-3005 (https://doi.org/10.1080/00103624.2023.2253842)	1.9
23.	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.	3.006
24.	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.	3.858
25.	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.	0.856
26.	Asim Ur Rahman, Aftab Ali, Faisal Ahmad, Sajjad Ahmad, Metab Alharbi, Abdullah Fayez 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 .	4.60
27.	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
28.	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
29.	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
30.	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
31.	Qurat 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
32.	R. Hayat, G. Din, A. Farooqi, A. Haleem, S. ud Din, F. Hasan, M. Badshah, S. Khan, A. A. 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
33.	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

34.	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. World Journal of Microbiology and Biotechnology 2023; 39:94	4.253
35.	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. Geomicrobiology Journal 2023; 40:4, 337-346.	2.412
36.	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> . Bioresources and Bioprocessing 2022; 9: 78 (https://doi.org/10.1186/s40643-022-00566-8)	4.983
37.	Nazif Ullah Khan, Shamsullah, Shahidullah, Aamer Ali Shah , Syed Sohail Zahoor Zaidi, Zhi Chen. Epidemiology of Human Adenovirus in Pakistani children hospitalized with Community-acquired Gastroenteritis under the age of five years. Int. J. Environ. Res. Public Health 2022; 19(19):12534. doi: 10.3390/ijerph191912534	4.614
38.	Anum Khan, Huma Ali, Ubaid Ur Rehman, Ali Osman Belduz, Amna Bibi, Mujib Abdulkadir Abdurahman, Aamer Ali Shah , Malik Badshah, Fariha Hasan, Ali Osman Kilic, Asad Ullah, Sarwat Jahan, Muhammad Maqsood Ur Rehman, Rashid Mansoor, Samiullah Khan. Prebiotic potential of enzymatically prepared resistant starch in reshaping gut microbiota and their respond to body physiology. PLoS One 2022; 17(5): e0267318. https://doi.org/10.1371/journal.pone.0267318	3.752
39.	Abdul Haq, Alam Khan, Haji Khan, Samiullah Khan, Aamer Ali Shah , Fariha Hasan, Safia Ahmed, Francis L de los Reyes, Malik Badshah. Enhancement of biogas yield during anaerobic digestion of Jatropha curcas seed by pretreatment and co-digestion with mango peels. Biomass Conversion and Biorefinary 2022; 12: 1595-1603 (https://doi.org/10.1007/s13399-020-01064-7)	4.050
40.	Sanam Islam Khan, Asaf Zarin, Safia Ahmed, Fariha Hasan, Ali Osman Belduz, Sabriye Çanakçı, Samiullah Khan, Malik Badshah, Muhammad Farman, Aamer Ali Shah. Degradation of lignin by <i>Bacillus altitudinis</i> strain SL7 isolated from pulp and paper mill effluent. Water Science and Technology (2022) 85 (1): 420–432.	2.430
41.	Marium Saba, Anum Khan, Huma Ali, Amna Bibi, Zeeshan Gul, Alam Khan, Muhammad Maqsood Ur Rehman, Malik Badshah, Fariha Hasan, Aamer Ali Shah , Samiullah Khan. Microbial Pretreatment of Chicken Feather and Its Co-digestion With Rice Husk and Green Grocery Waste for Enhanced Biogas Production. Frontiers in Microbiology 2022; 13: 792426.	6.064
42.	Zainab Khattak, Aamer Ali Shah , Syed Sohail Zahoor Zaidi, Nayab Mahmood, Muhammad Masroor Alam, Salman Sharif, Ribqa Akhtar, Yasir Arshid, Muhammad Suleman Rana. Isolation and molecular characterization of Adenovirus from suspected acute flaccid paralysis patients: A preliminary report from Pakistan. Archives of Virology 2022; 167: 483–491 (https://doi.org/10.1007/s00705-021-05346-x)	2.685
43.	Ghufranud Din, Abrar Hassan, John Dunlap, Steven Ripp, Aamer Ali Shah . Cadmium tolerance and bioremediation potential of filamentous fungus <i>Penicillium chrysogenum</i> FMS2 isolated from soil. International Journal of Environmental Science and Technology 2022; 19: 2761–2770.	3.519
44.	Imran Rabbani, Tariq Ahmad, Muhammad Maqsood-ur-Rehman, Muhammad Rafiq, Sabir Nawaz, Aamer Ali Shah , Fariha Hasan. Effect of various culture conditions on antimicrobial activity by bacteria from Passu Glacier, Pakistan. Applied Ecology and Environmental Research 2022; 20(3): 2059-2076.	0.816
45.	Muhammad Arif, Kalsoom, Aamer Ali Shah, Malik Badshah, Fariha Hasan, Asim ur Rehman, Samiullah Khan. Positivity, diagnosis and treatment follow-up of cutaneous leishmaniasis in war-affected areas of Bajaur, Pakistan. Parasitology Research 2022; 121:991–998 (https://doi.org/10.1007/s00436-022-07438-2).	2.383
46.	Numan Saleh Zada, Ali Osman Belduz, Halil Ibrahim Güler, Miray Sahinkaya, Sanam Islam Khan, Marium Saba, Kadriye Inan Bektas, Yakup Kara, Sevgi Kolaylı, Malik Badshah, Aamer Ali Shah , Samiullah Khan. Cloning, Biochemical characterization and molecular docking of Novel thermostable β -1 glucosidase BglA9 from <i>Anoxybacillus Ayderensis</i> A9 and its application in de-glycosylation of Polydatin. International Journal of Biological Macromolecules 2021; 193: 1898-1909.	8.025

47.	Alam Khan, Sedrah Akbar, Valentine Okonkwo, Cindy Smith, Samiullah Khan, Aamer Ali Shah , Fazal Adnan, Umer Zeeshan Ijaz, Safia Ahmed and Malik Badshah Enrichment of the hydrogenotrophic methanogens for, in-situ biogas up-gradation by recirculation of gases and supply of hydrogen in methanogenic reactor. <i>Bioresource Technology</i> 2021; 345: 126219.	11.889
48.	Sanam Islam Khan, Numan Saleh Zada, Miray Sahinkaya, Dilsat Nigar Colak, Safia Ahmed, Fariha Hasan, Ali Osman Belduz, Sabriye Çanakçı, Samiullah Khan, Malik Badshah, Aamer Ali Shah . Cloning, Expression and Biochemical Characterization of Lignin-degrading DyP-Type Peroxidase from <i>Bacillus</i> sp. Strain BL5. <i>Enzyme and Microbial Technology</i> 2021; 151: 109917. (https://doi.org/10.1016/j.enzmictec.2021.109917)	3.705
49.	Pervaiz Ali, Daniel Fucich, Aamer Ali Shah , Fariha Hasan, Feng Chen. Cryopreservation of cyanobacteria and eukaryotic microalgae using exopolysaccharide extracted from a glacier bacterium. <i>Microorganisms</i> 2021; 9: 395. (https://doi.org/10.3390/microorganisms9020395)	4.926
50.	Asifa Farooqi, Ghufuranud Din, Rameesha Hayat, Malik Badshah, Samiullah Khan, Aamer Ali Shah . Characterization of <i>Bacillus nealsonii</i> strain KBH10 Capable of Reducing Aqueous Mercury in Lab-Scale Reactor. <i>Water Science and Technology</i> 2021; 83(9):2287-2295.	2.430
51.	Nosheen Basharat, Asma Sadiq, Mohammad Dawood, Shahid Ali, Alam Khan, Roohullah Khan, Hayat Khan, Aamir Aziz, Hamid Ali, Aamer Ali Shah , Ijaz Ali, Jadoon Khan. Rotavirus gastroenteritis in Pakistan, 2018: Updated disease burden. <i>BMC Infectious Diseases</i> 2021; 21:426 (https://doi.org/10.1186/s12879-021-06123-6)	3.667
52.	Jadoon Khan, Nosheen Basharat, Salman Khan, Syed Muhammad Jamal, Sadeeq Ur Rahman, Aamer Ali Shah, Sanaullah Khan, Rehman Ali, Shahid Niaz Khan, Ijaz Ali. Prevalence and Molecular Characterization of Cystic Echinococcosis in Livestock Population of Malakand Division, Khyber Pakhtunkhwa, Pakistan. <i>Frontiers in Veterinary Sciences</i> 2021; 8: 757800. (https://doi.org/10.3389/fvets.2021.757800)	3.471
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132.	Irfan Ullah, Arshad Javaid, Zarfishan Tahir, Obaid Ullah, Aamer Ali Shah , Fariha Hasan, Najma Ayub. Pattern of Drug resistance and risk factors associated with development of drug resistant <i>Mycobacterium tuberculosis</i> in Pakistan. PLOS One 2016 11(1): e0147529. doi:10.1371/journal.pone.0147529	3.752
133.	Wasim Sajjad, Tariq Bhatti, Fariha Hasan, Samiullah Kha, Malik Badshah, Abbas Ali Naseem, Aamer Ali Shah . Characterization of sulfur-oxidizing bacteria isolated from acid mine drainage and black shale samples. Pakistan Journal of Botany 2016: 48(3) 1253-1262.	1.101

134.	Sahib Zada, Abbas Ali Naseem, Seong Jo Lee, Mohammad Rafiq, Aamer Ali Shah , Fariha Hasan. Geochemical and mineralogical analysis of Kashmir cave (smast), Buner, Pakistan, and isolation of bacteria having antibacterial activity. Journal of Cave and Karst Studies 2016; 78:94-109.	1.282
135.	Wasim Sajjad, Muhammad Rafiq, Sahib Zada, Neelam Zeb, Imran Khan, Aamer Ali Shah, Fariha Hasan. Phylogenetic analysis of newly isolated protease producing salt tolerant psychrophilic bacteria from Tirich Mir glacier, Pakistan. Int. J. Bios. 2015; 7: 159-169.	0.553
136.	Obaid Ullah, Mutiullah Khattak, Fariha Hasan, Nazrullah Raja, Shagufta Hussain, Naeem Akhtar, Aamer Ali Shah. Vancomycin resistant enterococcal infections in tertiary care hospitals of Islamabad and Rawalpindi, Pakistan. Pakistan Journal of Zoology 2015; 47: 1503-1510.	0.687
137.	Akhtar Nadhman, Fariha Hasan, Aamer Ali Shah. Production and characterization of poly(3-hydroxybutyrate) depolymerases from <i>Aspergillus</i> sp. isolated from soil that could degrade poly(3-hydroxybutyrate). Int J Biosciences 2015; 7: 25-28.	0.553
138.	Nida Kanwal, Aamer Ali Shah , Sadia Qayyum, Fariha Hasan. Optimization of pH and temperature for degradation of tyre rubber by <i>Bacillus</i> sp. strain S10 isolated from sewage sludge. Int. Biodeterior. Biodegrad. 2015; 103: 154-160.	4.907
139.	Wasim Sajjad, Tariq Bhatti, Fariha Hasan, Aamer Ali Shah. Characterization of heterotrophic and mixotrophic acidophilic bacteria isolated from black shale and acid mine drainage, Khala Chatta, Haripur Pakistan. Int. J. Biosciences 2015; 6(8), 62-70.	0.553
140.	Ayesha Aslam, Naeem Akhtar, Fariha Hasan, Aamer Ali Shah . Prevalence and in vitro antifungal susceptibility pattern of <i>Candida</i> species in a tertiary care hospital, Rawalpindi, Pakistan. Pakistan Journal of Zoology 2015; 47(2), 335-342	0.687
141.	Mir Sadiq Shah, Mark Eppinger, Safia Ahmed, Aamer Ali Shah, Abdul Hameed, Fariha Hasan. Multi drug resistant diarrheogenic E. coli pathotypes are associated with ready to eat salad and vegetables in Pakistan. Journal of the Korean Society for Applied Biological Chemistry 2015; 58(2): 267-273.	1.559
142.	Aamer Ali Shah , Ahmed Nawaz, Lubna Kanwal, Fariha Hasan, Samiullah Khan, Malik Badshah. Degradation of poly(ϵ -caprolactone) by a thermophilic bacterium <i>Ralstonia</i> sp. strain MRL-TL from hot water spring. International Biodeterioration and Biodegradation 2015; 98: 35-42.	4.907
143.	Ahmed Nawaz, Fariha Hasan, Aamer Ali Shah . Degradation of poly(ϵ -caprolactone) by a newly isolated Brevundimonas sp. strain MRL-AN1 from soil. FEMS Microbiology Letter 2014; 363: 1-7.	2.820
144.	Irfan Ullah, Aamer Ali Shah, Zarfishan Tahir, Obaidullah, Fariha Hasan, Najma Ayub. Detection of <i>Mycobacterium tuberculosis</i> from Clinical Specimens by Conventional and Molecular Technique in Punjab, Pakistan. Global Veterinaria 2014, 13 (6): 1002-1009. ²	0.60
145.	Aamer Ali Shah , Satoshi Kato, Noboru Shintani, Numbi Ramudu Kamini, Toshiaki Nakajima-Kambe. Microbial degradation of aliphatic and aliphatic-aromatic co-polyesters. Appl Microbiol Biotechnol 2014; 98: 3437-3447.	5.560
146.	Aamer Ali Shah , Tomoaki Eguchi, Daisuke Mayumi, Satoshi Kato, Noboru Shintani, Numbi Ramudu Kamini, Toshiaki Nakajima-Kambe. Degradation of aliphatic and aliphatic-aromatic co-polyesters by depolymerases from <i>Roseateles depolymerans</i> strain TB-87 and analysis of degradation products by LC-MS. Polymer Degradation and Stability 2013; 98: 2722-2799.	5.204
147.	Shahzeera Begum, Fariha Hasan, Shagufta Hussain, Aamer Ali Shah . Prevalence of multi drug resistant <i>Acinetobacter baumannii</i> in the clinical samples from Tertiary Care Hospital in Islamabad, Pakistan. Pakistan Journal of Medical Sciences 2013; 29: 1253-1258	2.340
148.	Siddiq Akbar, Fariha Hasan, Akhtar Nadhman, Samiullah Khan, Aamer Ali Shah . Purification and characterization of poly (3-hydroxy butyrate-co-3-hydroxyvalerate) degrading enzyme from <i>Streptomyces</i> sp. AF-111. Journal of Polymers and the Environment 2013; 21: 1109-1116.	4.705
149.	Aamer Ali Shah , Fariha Hasan, Ziaullah Shah, Nida Kanwal, Samia Zeb. A review on biodegradation of natural and synthetic rubbers. International Biodeterioration and Biodegradation 2013; 83: 145-157.	4.320
150.	Ziaullah Shah, Fariha Hasan, Lee Krumholz, Deniz Fulya Aktas, Mutiullah Khattak, Aamer Ali Shah . Degradation of polyester polyurethane by newly isolated soil bacterium, <i>Bacillus subtilis</i> MZA-75. Biodegradation 2013; 24: 865-877.	3.909
151.	Ziaullah Shah, Fariha Hasan, Lee Krumholz, Deniz Atkas, Aamer Ali Shah . Degradation of polyester polyurethane by newly isolated <i>Pseudomonas aeruginosa</i> strain MZA-85 and analysis of	4.907

	degradation products by GC-MS. International Biodeterioration and Biodegradation 2013, 77: 114-122.	
152.	Aamer Ali Shah , Tomoaki Eguchi, Daisuke Mayumi, Satoshi Kato, Noboru Shintani, Numbi Ramudu Kamini, Toshiaki Nakajima-Kambe. Purification and properties of novel aliphatic-aromatic co-polyesters degrading enzymes from newly isolated <i>Roseateles depolymerans</i> strain TB-87. Polymer Degradation and Stability. 2013, 98: 609-618.	5.204
153.	A. A. Shah , F. Hasan, Z. Shah, Mutiullah, A. Hameed. Degradation of polyisoprene rubber by newly isolated <i>Bacillus</i> sp. AF-666 from soil. Applied Biochemistry and Microbiology 2012; 48(1); 37-42.	1.065
154.	A. Nadhman, F. Hasan, Z. Shah, A. Hameed, and A. A. Shah . Production of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) depolymerase from <i>Aspergillus</i> sp. NA-25. Applied Biochemistry and Microbiology 2012; 48(5): 482-487.	1.065
155.	Afzal I., Shah A. A. , Makhdum Z., Hameed A., Hasan F. Isolation and characterization of cellulase producing <i>Bacillus cereus</i> MRLB1 from soil. Minerva Biotechnologica, 2012; 24(3): 101-109.	2.024
156.	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
157.	Adil Farooq Lodhi, Fariha Hasan, Ziaullah Shah, Abdul Hameed, Shah Faisal, Aamer Ali Shah . Optimization of culture conditions for the production of Poly (3-hydroxybutyrate) Depolymerase from newly isolated <i>Aspergillus fumigatus</i> from soil. Pakistan Journal of Botany 2011; 43(2): 1361-1372.	1.101
158.	Masroor Hussain, Fariha Hasan, Aamer Ali Shah , Abdul Hameed, Myunghwan Jung, Nabin Rayamajhi and Han Sang Yoo. Prevalence of class A and AmpC beta-lactamases in clinical <i>Escherichia coli</i> isolates from Pakistan Institute of Medical Science (PIMS), Islamabad, Pakistan. Japanese Journal of Infectious Diseases 2011; 64, 249-252.	2.541
159.	Hafiz Ullah, Aamer Ali Shah , Fariha Hasan, Abdul Hameed. Biodegradation of Trinitrotoluene by Immobilized <i>Bacillus</i> sp. YRE1. Pakistan Journal of Botany 2010; 42(5): 3357-3367.	1.101
160.	Atieyeh Taherian Fard, Fariha Hasan, Mojgan Bandehpour, Nariman Mosaffa, Fatemeh Mashhadi Abbas, Abdul Hameed, Aamer Ali Shah , Bahram Kazemi. Cloning and Expression of <i>C-terminal of Clostridium perfringens</i> type A enterotoxin and its biological activity. AJMR 2010; 4(14): 1469-1474.	0.539
161.	Fariha Hasan, Aamer Ali Shah , Sundas Javed, Abdul Hameed. Enzymes used in detergents: Lipases. Afri. J. Biotechnol., 2010; 9(31), 4836-4844.	0.573
162.	Bashir Ahmad, Imran Javed, Aamer Ali Shah , Abdul Hameed Fariha Hasan. Growth characteristics of psychrotrophic bacteria isolated from -20°C freezer. Afri. J. Biotechnol., 2010; 9(5): 718-724.	0.573
163.	Mehwish Riaz, Aamer Ali Shah , Abdul Hameed, Fariha Hasan. Characterization of lipase produced by <i>Bacillus</i> sp. FH5 in immobilized and free state. Annal of Microbiology 2010; 60(1): 169-175.	3.168
164.	Aamer Ali Shah , Fariha Hasan, Abdul Hameed. Degradation of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by a newly isolated <i>Actinomadura</i> sp. AF-555 from soil. International Biodeterioration and Biodegradation 2010; 64: 281-285.	4.907
165.	Fariha Hasan, Aamer Ali Shah , Abdul Hameed. Methods for detection and characterization of lipases: A comprehensive review. Biotechnology Advances 2009; 27: 782-798.	17.681
166.	Hamayun M, SA Khan, AL Khan, AA Shah , G Rehman, EY Sohn, SK Kim, GJ Joo and IJ Lee. <i>Phoma herbarum</i> as a New Gibberellin-Producing and Plant Growth-Promoting Fungus. Journal of Microbiology and Biotechnology 2009; 19(10): 1244-1249.	3.277
167.	Aamer Ali Shah , Fariha Hasan, Abdul Hameed, Javed Iqbal Akhter. Isolation of <i>Fusarium</i> sp. AF-4 with the ability to adhere the surface of polyethylene. Afri. J. Microbiol. Res., 2009; 10(3): 658-663.	0.539
168.	Ziaullah Shah, Aamer Ali Shah , Abdul Hameed, Fariha Hasan. Effect of pretreatments on enhanced degradation of polyisoprene rubber by new isolated <i>Bacillus</i> sp. S10. Journal of the Chemical Society of Pakistan 2009; 31(4): 638-646.	0.536
169.	Fariha Hasan, Samiullah Khan, Aamer Ali Shah , Abdul Hameed. Production of antibacterial compounds by free and immobilized <i>Bacillus pumilus</i> SAF1. Pakistan Journal of Botany 2009; 41(3): 1499-1510.	1.101

170.	Shah, A. A. , Hasan, F., Hameed, A., Ahmed, S. Biological degradation of plastics: a comprehensive review. <i>Biotechnology Advances</i> 2008; 26: 246-265.	17.681
171.	Shah, A. A. , Hasan, F., Hameed, A., Ahmed, S. A novel poly(3-hydroxybutyrate)-degrading <i>Streptovorticillium kashmirensis</i> AF1 isolated from sewage sludge and purification of PHB-depolymerase. <i>Acta Biologica Hungarica</i> , 2008; 59(4): 489-499.	0.585
172.	Yasin M., Shah, A. A. , Hameed, A., Ahmed, S., Hasan, F. Use of Microorganisms for the Treatment of Trinitrotoluene (TNT) Containing Effluents. <i>Journal of the Chemical Society of Pakistan</i> 2008; 30(3): 442-448.	0.536
173.	Shah, A. A. , Hasan, F., Hameed, A. Ahmed, S. Degradation of Polyurethane by novel bacterial consortium isolated from soil. <i>Annals of Microbiology</i> 2008; 58(3): 381-386.	3.168
174.	Shaheen, M., Shah, A. A. , Hameed, A., Hasan, F. Influence of culture conditions on production and activity of protease from <i>Bacillus subtilis</i> BS1. <i>Pakistan Journal of Botany</i> 2008; 40(3): 2161-2169.	1.101
175.	Shah, A. A. , Hasan, F., Hameed, A. Ahmed, S. Isolation and characterization of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) degrading actinomycetes and purification of PHBV depolymerase from newly isolated <i>Streptovorticillium kashmirensis</i> AF1. <i>Annals of Microbiology</i> 2007; 57(4): 583-588.	3.168
176.	Murad, S., Hasan, F., Shah, A. A. , Hameed, A., Ahmed, S. Isolation of phthalic acid degrading <i>Pseudomonas</i> sp. P1 from soil. <i>Pak. J. Bot.</i> 2007; 39(5): 1833-1841.	1.101
177.	Awais M., Shah A. A. , Hameed A., Hasan F. Isolation, identification and optimization of bacitracin producing <i>Bacillus</i> sp. <i>Pak. J. Bot.</i> 2007; 39(4): 1303-1312.	1.101
178.	Hasan, F., Shah, A. A. , Hameed, A. Ahmed, S. Synergistic effect of photo and chemical treatment on the rate of biodegradation of low density polyethylene by <i>Fusarium</i> sp. AF4. <i>J. Appl. Polym. Sci.</i> , 2007; 105(3): 1466-1470.	3.057
179.	Shah, A. A. , Hasan, F., Hameed, A. Ahmed, S. Isolation and characterization of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) degrading bacteria and purification of PHBV depolymerase from newly isolated <i>Bacillus</i> sp. AF3. <i>International Biodeterioration and Biodegradation</i> 2007; 60: 109-115.	4.907
180.	Hasan F., Shah A. A. , Hameed A. Purification and characterization of a mesophilic lipase from <i>Bacillus subtilis</i> FH5 stable at high temperature and pH. <i>Acta Biologica Hungarica</i> 2007; 58: 115-132.	0.585
181.	Hasan F., Shah A. A. , Hameed A. Influence of culture conditions on lipase production by <i>Bacillus</i> sp. FH5. <i>Annal. Microbiol.</i> , 2006; 56(3): 247-252.	3.168
182.	Hasan F., Shah A. A. , Hameed A. Industrial applications of microbial lipases. <i>Enzyme and Microbial Technology</i> 2006; 39: 235-251.	3.705
183.	Shah. A. A. , F. Hasan, S. Ahmed and A. Hameed. Extended Spectrum Beta-lactamases Epidemiology, characterization and detection. <i>Critical Reviews in Microbiology</i> 2004; 30: 25-32.	7.624
184.	Shah, A. A. , F. Hasan, S. Ahmed and A. Hameed. Characteristics, epidemiology and clinical importance of emerging strains of Gram-negative bacilli producing extended- spectrum beta-lactamases. <i>Research in Microbiology</i> 2004; 155: 409-421.	3.946
185.	Shah, A. A. , Hasan, F., Ahmed, S., Hameed, A. Prevalence of extended-spectrum β -lactamases in nosocomial and out-door patients. <i>Pak. J. Med. Sci.</i> 2003; 19(3): 187-191.	2.340
186.	Shah, A. A. , Hasan, F., Ahmed, S., Hameed, A. Extended-spectrum β -lactamases in Enterobacteriaceae: Related to age and gender. <i>New Microbiologica</i> , 2002; 25: 363-366.	1.383
187.	Shah, A. A. , Hasan, F., Ahmed, S., Hameed, A. Studies on the incidence of enterobacteriaceae in nosocomial and outpatient departments. <i>Pak. J. Med. Res.</i> , 2002; 41(1): 4-8.	
	Total	>600

9. 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 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.
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 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.
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.
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.

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 BODIES

No.	International Bodies	Institution	Purpose of work
1.	Prof. Javier A. Linares-Pastén	Department of Chemistry, Lund University, Sweden	1. Joint research collaboration 2. Joint research publications
2.	Prof. Yongjin Zhou	Chinese Academy of Sciences, Dalian, China	3. Joint research collaboration 4. Bilateral visit of research facilities for sharing experiences 5. Mutual exchange of students for learning latest research techniques and capacity building
3.	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
4.	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

5.	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
6.	Prof. Arthur J. Ragauskas	University of Tennessee, Knoxville, USA	1. Joint research collaboration 2. Joint research publications
7.	Prof. Rafael Auras	Michigan State University, Michigan, USA	3. Joint research collaboration 4. Bilateral visit of research facilities for sharing experiences 5. Mutual exchange of students for learning latest research techniques and capacity building 6. Joint research publications

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

Students	Supervised	Under Supervision
Ph.D	20	05
M.Phil	92	07
BS	30	08

14. PH.D SUPERVISED

No.	Name	Thesis Title	Year
1	Salahuddin	Process Optimization for the Production of Fatty Acid Derivatives by <i>Komagataella phaffii</i> using Sugarcane Bagasse and Trash	2025
2	Alam Zeb	Bioremediation of Lignin in Pulp and Paper Mill Effluents by Indigenous Fungal Isolates	2025
3	Asim ur Rehman	Studies on Siderophores from Radio-resistant Bacteria Isolated and their Bioactive Potential	2024
4	Salahuddin	Biodegradation of Polyethylene Terephthalate by Bacteria Isolated from Soil.	2023
5	Kalsoon	Role of Metallo-resistant Microorganisms in Remediation of Heavy Metals using Biofilter	2022
6	Jadoon Khan	Identification and Molecular Characterization of Antigenic Peptides of <i>Echinococcus</i>	2022
7	Sanam Islam Khan	Biodegradation of lignin by bacteria isolate from pulp and paper mill effluent	2021
8	Saba Farooq	Biological Characterization and Comparative Diagnostics of <i>Mycoplasma galisepticum</i> isolates	2021
9	Zainab Khattak	Molecular Epidemiological Studies of Adenovirus Infections in children in Pakistan	2020
10	Pervaiz Ali Sakhi	Diversity of Psychrophilic Bacteria From Batura Glacier Pakistan and Their Potential Industrial Applications	2020
11	Ghufranud Din	Role of Metallo-Resistant Microorganisms in Remediation and Monitoring of Heavy Metals from Industrial Waste	2019
12	Sadia Mehmood Satti	Microbial degradation of polyester based biodegradable plastics	2018
13	Mutiullah	Molecular epidemiology of vancomycin resistant enterococci in hospitalized patients of Rawalpindi/Islamabad	2018

14	Saba Rafique	Seroprevalence and molecular characterization of Infectious bronchitis virus variants from poultry in Pakistan	2018
15	Wasim Sajjad	Production and characterization of extremolytes from indigenous radioresistant microorganisms and their evaluation for potential biotechnological applications	2017
16	Ghulam Mujtaba	Molecular Characterization of Human Cytomegalovirus Strains causing Infections in Immuno-compromised Pakistani population	2017
17	Muhammad Irfan	Cloning, functional expression and site-directed mutagenesis of thermostable xylanases from <i>Geobacillus thermodenitrificans</i>	2017
18	Muzna Hashmi	Enhanced production of biofuel from sugar industry waste	2016
19	Ayesha Aslam	Prevalence, antifungal susceptibility and biofilm characterization of <i>Candida</i> species isolated from Tertiary Care Hospitals, Rawalpindi, Pakistan.	2016
20	Ziaullah Shah	Microbial degradation of polyester polyurethane	2013

15. M.PHIL SUPERVISED

No.	Name	Thesis title	Year
1.	Muhammad Usman Qamar	Valorization of Polyethylene Terephthalate Monomers to Polyhydroxyalkanoates by <i>Glutamicibacter</i> Specie	2025
2.	Fareena Rehman	Evaluation of Extremolytes from Ultraviolet Resistant Bacteria as Photo-induced stress protectant on Edible Plants.	2025
3.	Shayan Ahmad	Production and Characterization of Esterase from Polyethylene Terephthalate Degrading Bacterium Isolated from Recycling Industry Waste	2025
4.	Hamna Sajid	Production, Purification and Characterization of Alkaline Phosphatase from Cold Adapted <i>Arthrobacter psychrolactophilus</i> GB17 isolated from Ghulkin Glacier, Hunza	2025
5.	Wasia Farooq	Production and Characterization of Laccase from <i>Trametes Ljubarskyi</i> for the Treatment of Pulp and Paper Mill Effluent	2024
6.	Arjmand Shamraiz	Production and Characterization of Cutinase from <i>Bacillus altitudinis</i> Strain CS2 that Degrade Polyethylene Terephthalate (PET) at Mesophilic Temperature	2024
7.	Nadia Hujasta	Purification and Characterization of Cellulase from <i>Alcaligenes</i> Strain CS6 Isolated from Compost Soil	2024
8.	Afaq Ahmad	Invitro Evaluation of Bioactive Metabolites from UV-resistant Bacterial strain Isolated from Cholistan Desert, Pakistan.	2024
9.	Asma Mukhtiar	Evaluation of Lignin Degradation Potential of Fungi Isolated from Pulp and Paper Mill Effluent	2024
10.	Laiba Raees	Production and Characterization of Cutinase from Polyethylene Terephthalate (PET) Degrading Bacterial Strain Isolated from Compost Soil	2024
11.	Noor ul Huda	Isolation of Thermophilic Bacteria from Hot Spring and Exploring Their Role in Lignin Valorization	2023
12.	Yawar Saeed	Purification and Characterization of Cellulases and Xylanases from Bacterial Isolates for Hydrolysis of Pretreated Sugarcane Bagasse	2023
13.	Shayan Naeem	Pharmacological Properties of Bioactive Metabolites from Wild Mushrooms of Azad Jammu and Kashmir Region	2023
14.	Muhammad Abdullah	Production and Characterization of Extremolytes from Radioresistant Bacteria of Garam Chashma, Chitral, Pakistan	2023
15.	Sadiq Ahmed	Production of Siderophores from Radioresistant <i>Aspergillus niger</i> and its Role in Heavy Metal Chelation	2023
16.	Zulqarnain Zulfiqar	Role of Lignin Degrading Microorganisms in Treatment of Pulp and Paper Mill Effluent using Lab-Scale Bioreactor	2023

17.	Laiq Zada	In vitro Inactivation of Antibiotic Resistant Bacteria using Antibacterial Photodynamic Therapy (APDT)	2023
18.	Hafsa Atique	Production and Characterization of Cutinase from Fungal Species that Degrade Polyethylene Terephthalate (PET) at Mesophilic Temperature	2022
19.	Aman Hanif	Bioremediation of Chromium from Industrial Wastewater using Packed-Bed Biofilter	2022
20.	Ayesha Israr	Enzymatic Hydrolysis of Alkali-Organosolvent Pretreated Sugarcane Bagasse for Enhanced Yield of Fermentable Sugars	2022
21.	Mehlayl Tariq	Production and Characterization of Lignin-Degrading Manganese Peroxidase from <i>Bacillus</i> Specie Isolated from Pulp and Paper Mill Effluent	2022
22.	Nazia Shah	Role of Exopolysaccharides from Metallo-resistant Bacteria in Removal of Heavy Metals from Industrial Waste	2022
23.	Madiha Siddiqui	Elucidation of Ligninolysis Mechanism of <i>Bacillus</i> sp. Isolated from Pulp and Paper Mill Effluent	2022
24.	Hafiza Zirwa Noor	Biodegradation of Polyethylene Terephthalate (PET) by Fungi Isolated from Soil.	2022
25.	Sidra Nazir	Production of Lignin Degrading Peroxidase from <i>Bacillus</i> sp. Strain BL5 isolated from Pulp and Paper Mill Effluent	2021
26.	Aftab Ali	Extraction and Characterization of Siderophores from Radioresistant Bacterium, <i>Bacillus thaonhiensis</i> Strain TMM-8	2021
27.	Afshan Batool	Bioremediation of Chromium by Bacteria Isolated from Industrial Waste	2021
28.	Risfa	Purification and Characterization of Poly(Ethylene Terephthalate) Degrading Cutinase from <i>Pseudomonas aeruginosa</i> Strain S4	2021
29.	Mahnoor Nadeem	Invitro Biological Activities of Cellular Extract from Radio-resistant <i>Micromonospora aurantiaca</i> strain TMC-15 Isolated from Thal Desert, Pakistan	2019
30.	Sobia Nasr	Purification and Characterization of L-asparaginase from <i>Bacillus</i> sp. strain PB-15 Isolated from Soil	2019
31.	Ayesha Ahmed Choudhry	Extraction and Characterization of Bioactive Compounds from Radio-resistant Bacterium, <i>Bacillus indicus</i> strain TMC-6	2019
32.	Asaf Zarin	Biodegradation of Lignin by Indigenous Bacterial isolates from Pulp and Paper Mill effluent	2019
33.	Hazrat Noor	Purification and Characterization of Poly (lactic acid) degrading Esterase from Newly Isolated Bacterial Strain <i>Pseudomonas aeruginosa</i> S3	2019
34.	Asifa Farooqi	Characterization of mercury resistant bacterial strains from Industrial Waste and its Potential Role in Mercury Transformation	2019
35.	Habiba Nasir	Isolation And Characterization Of Lignin Degrading Fungi From Paper And Pulp Mill Effluents	2019
36.	Tayyaba Alam	Extraction and purification of bioactive compounds from UV-resistant bacterial strain isolated from Thal Desert, Pakistan	2018
37.	Rameesha Hayat	Isolation and characterization of metallo-resistant microorganisms from soil and evaluation of their metal chelation potential	2018
38.	Salahuddin	Biodegradation of polyethylene terephthalate (PET) by bacteria isolated from marine water	2018
39.	Madiha Azam	Biological activity of cellular extract from radio-resistant bacterium <i>Kocuria turfanensis</i> WMA-BD1 isolated from Desert Soil	2018
40.	Syed Mohammad Abrar Hussain	Isolation and characterization of metallo-resistant fungus and its role in leaching of metals from contaminated soil	2018
41.	Syed Izhar Hussian	Isolation and identification of metallo-resistant bacteria from metal polluted soil and their role in metals removal	2018
42.	Amna Mumtaz Abbasi	Degradation of poly(lactic acid) PLA by a newly isolated bacterium from compost soil	2018
43.	Jawairia Kiran	Immobilization of partially purified β -1-4 xylanase from <i>Bacillus licheniformis</i> and <i>Thermomyces lanuginosus</i>	2018

44.	Salahuddin	Production and characterization of xylanase from <i>Thermomyces lanuginosus</i> isolated from hot spring	2017
45.	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
46.	Syeda Amna Farooq	Biodegradation of aliphatic polyesters by a fungus <i>Aspergillus fumigatus</i> isolated from soil	2017
47.	Ameenullah	Production, purification and characterization of xylanase enzyme from bacterial strains isolated from hot springs	2017
48.	Ambreen Zubair	Production and characterization of cellulase from <i>Bacillus subtilis</i> ML1 and its application in ethanol production	2017
49.	Sundas Qadir	Evaluation of extremolytes for their anti-oxidant potential from newly isolated radio-resistant bacterium <i>Stenotrophomonas</i> sp. WMA-LM19	2017
50.	Sehrish Asghar	Production, optimization and characterization of poly(3-hydroxybutyrate-co-hydroxyvalerate) depolymerase from <i>Penicillium oxalicum</i> isolation from soil.	2016
51.	Suraiya Anwar Wazir	Production and characterization of phosphatases from newly isolated soil bacterium.	2016
52.	Faryal Ghaffar	Isolation of fungal strain from environmental samples and its potential role in leaching of metal ions	2016
53.	Sunniya Ilyas	Biological activity of carotenoid pigment extracted from radio-resistant <i>Deinococcus</i> sp. strain WMA-LM9	2016
54.	Muhammad Osman	Degradation of polyester-based biodegradable plastic by <i>Aspergillus fumigatus</i> isolated from soil	2016
55.	Hasan Mustafa	Production of L-asparaginase enzyme from newly isolated <i>Bacillus</i> sp. from soil.	2016
56.	Salman Khan	Phylogenetic diversity of ultra-violet radiation (UV-R) resistant bacteria isolated from desert	2016
57.	Ayesha Luqman	Isolation and Characterization of a Polyester Degrading Fungal Strain from Soil.	2015
58.	Manzoor Ahmed	Extraction of an Anti-oxidant from Newly Isolated Radioresistant <i>Deinococcus</i> sp. Strain MRL-WMA From Environmental Samples.	2015
59.	Maryam	Isolation and Characterization of Phosphate Solubilizing Bacterium from Soil.	2015
60.	Arfa Hasan	Studies on Investigation of Phosphate Solubilizing Efficiency of a Fungal Strain Isolated from Soil.	2015
61.	Maryam Tahir Siddiqui	Sequence analysis of fluconazole resistant ERG11 gene among clinical MDR <i>Candida</i> isolates	2015
62.	Saifullah	Production and characterization of xylanases from <i>Bacillus pumilus</i> strain isolated from water	2015
63.	Fakhra Hanif	L-asparaginase production from a newly isolated bacterium from soil	2015
64.	Matiullah	Seroprevalence of Hepatitis C virus infection in Kohat Division of Khyber Pukhtoon Khwah	2015
65.	Wasim Sajjad	Isolation and characterization of acidophiles from acid mine drainage and black shale from Khala Chatta, Khyber Pukhtoon Khwa	2014
66.	Samia Jabeen Umer	Prevalence and antibiotic susceptibility of <i>Streptococcus</i> species in specimens collected from a tertiary care hospital, Islamabad	2014
67.	Sabir Nawaz	Prevalence of vancomycin resistant enterococci in tertiary care hospitals of Islamabad/Rawalpindi	2014
68.	Lubna Kanwal	Isolation and identification of polycaprolactone degrading thermophiles from hot water spring	2014
69.	Ahmed Nawaz	Isolation of aliphatic polyester degrading bacterial strains from soil	2014
70.	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

71.	Sidra Batool	Prevalence of multi-drug resistant gram-negative bacilli in urinary tract infection	2014
72.	Kanwal Rafique	Species distribution and antifungal susceptibility of Candida isolates among hospital and community acquired infection	2013
73.	Ammara Tayyab	Production of cellulase enzyme from a thermophilic bacterial strain isolated from hot water spring	2013
74.	Hasan Wasim	Detection of Cytomegalovirus among pregnant women	2013
75.	Saddiq Akbar	Purification and characterization of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) depolymerase from <i>Streptomyces</i> sp. AF111	2011
76.	Samman Bashir	Characterization of PHB depolymerase produced by <i>Actinomadura</i> sp. AF-555	2011
77.	Shahzeera Begum	Prevalence of multidrug resistant <i>Acinetobacter baumannii</i> in hospitalized patients	2011
78.	Nazif Ullah Khan	Detection of Adenoviruses in Hospitalized Children's with Acute gastroenteritis under the Age of five years	2011
79.	Obaid Ullah	Prevalence of vancomycin resistant enterococci in hospitalized patients in Islamabad, Pakistan	2010
80.	Sabir Rehman	Comparative study of different serological tests for diagnosis of Brucellosis in Buffaloes	2010
81.	Mohsin Gulzar	Degradation of polyester polyurethane by newly isolated bacterial consortium from soil	2010
82.	Khaliq Noor	Antimicrobial susceptibility of biofilm forming <i>Pseudomonas aeruginosa</i> isolated from hospital environment	2010
83.	Muttiullah	Isolation of polyurethane degrading <i>Bacillus</i> sp. from soil	2010
84.	Akhtar Nadhman	Production and purification of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) depolymerase from <i>Aspergillus fumigates</i>	2010
85.	Faiza Safeer	Comparative study on susceptibility of ESBL and non-ESBL producing <i>Klebsiella pneumoniae</i> against non- β -lactam antibiotics	2010
86.	Zainab Zubair	Isolation of multi-drug resistant gram negative bacilli from post operative surgical wounds	2010
87.	Faizul Amin	Isolation identification and characterization of poly(3-hydroxybutyrate) degrading <i>Streptomyces</i> sp.	2009
88.	Shah Faisal	Isolation, identification and characterization of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) degrading <i>Aspergillus fumigatus</i>	2009
89.	Mohsin Khurshid	Association of Diabetes Mellitus and Chronic Hepatitis B Virus Infection.	2009
90.	Adil Farooq Lodhi	Optimization of Culture Conditions for the Production of Poly (3-Hydroxybutyrate) Depolymerase from <i>Aspergillus</i> Spp	2009
91.	Sadaf Bakhtiar	Molecular characterization of indigenous extended-spectrum beta-lactamases producing <i>Escherchia coli</i> and <i>Klebsiella pneumoniae</i>	2008
92.	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/M.Sc.
Medical Microbiology	3	BS/M.Sc.
Clinical Microbiology	3	BS/M.Sc.
Industrial Microbiology	3	BS/M.Sc.
Soil Microbiology	3	BS/M.Sc.
Environmental Microbiology	3	BS/M.Sc.
Extremophiles	3	M.Phil/Ph.D
Advances in Microbiology	3	M.Phil/Ph.D
Biosafety and Biosecurity	3	M.Phil/Ph.D
Biodegradation	3	M.Phil/Ph.D
Applications of Biotechnology	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.