

Google Scholar: <https://scholar.google.com/citations?user=oPOD2GcAAAAJ&hl=en>
ORCID: <https://orcid.org/0000-0001-6047-3334>
IIU web profile: https://www.iiu.edu.pk/?page_id=7789

- **Associate Professor (Biotechnology), IIUI** (2023 to date)
- **Head, Industrial Linkages & Commercialization (ORIC), IIUI;** (2025 to date)
- **In-charge Academic Affairs, IIUI** (2022 – 2025)
- **Assistant Professor (Biotechnology)** (2010-2022)

Post PhD Experience: 15 years

Pre PhD Experience: 05 years

Duties: Teaching, Research, Supervision, & Administrative tasks

- Post Doc June 2014 to 2015 **Cambridge, UK**
- PhD Microbiology (2010) QAU*, **Pakistan**
(Collaborative Research, **UW** Canada**)

- Alkaline Phosphatase coupled nanosensor
(**University of Cambridge, UK**)
- Production and characterization of alkaline phosphatase
- Quaid-i-Azam University (**QAU**), Islamabad
- University of Waterloo (**UW**), Ontario, Canada

- PhDs produced / supervising	10
- MS/ M. Phils produced/ Supervising	37
- BS students' Final Year Projects	61
- Research Grants	05
- Research publications and GenBank submissions	53+25 =78
- Impact Factor	100+
- Books/chapters	05
- Novel strain/bacterium	01

- **Research commercialization**

- Successful start-ups	01
- Commercial Scale R&D Products	07
- Patent(s) claim	01
- Unsuccessful ventures	12

- **Commercial ventures (Start Ups)**

 EduTronics	 Biotech Enterprises
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EduTronics



Bashir Ahmad

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Office 306, Department
of Biological Sciences,
International Islamic
University, H-10, Islamabad
(44000), Pakistan

*QAU: Quaid –I Azam University, Islamabad

*UW: University of Waterloo, ON, Canada

*NUST: National University of Sciences and Tech. Islamabad

*IIUI: International Islamic University, Islamabad

General Resume (Academic & Research)

**Applied Microbiology and Biotechnology Lab (AMBL),
Department of Biological Sciences, International Islamic University, H-10, Islamabad,
Pakistan**

1. TEACHING

1. TEACHING COURSES

PhD Biotechnology

1. Industrial Biotechnology (BT-769),
2. Intellectual Property Rights (IPR) Protocols in Biotechnology (BT-774)

2. RESEARCH

2A. Laboratory

(2010 - Date) Founder, Principal Investigator and In-charge of Biosafety Level 2 Lab
Applied Microbiology and Biotechnology Laboratory (AMBL)*

2B. Post Doctorate

June 10, 2014, to June 09 2015 (through sabbatical / study leave from the department)
Post Doctoral Researcher, Institute of Biotechnology, University of Cambridge, UK

2C. RESEARCH GRANTS

Project 2B1: Optimization of conditions for the production of alkaline phosphatase from Indigenous bacteria funded by HEC, 2011

Project No. PM-IPFP/HRD/HEC/2011/0591 (**Completed 2013**) **0.5 Million PKR**

Project 2B2. Studies on the development, formulation and commercialization of alkaline phosphatase inhibition-based amperometric nanosensor for biomedical applications.

Project No. HEC/R&D/RGA/NRPU/2014/4452 (**Completed 2022**) **4.4 Million PKR**

Project 2B3. Development of novel hydrogels modified with bio-ionic liquids for tissue engineering applications. Worked as an active Co-Pi in this project

Project No. HEC/R&D/RGA/NRPU/2021/18758 (**Completed 2025**) **9 Million PKR**

Project 2B4. Development, Characterization and Commercialization of the Biogenic Mosquito Repellent Oil (MRO) and Mosquito Repellent Balm (MRB). Award by Health Research Institute (HRI), NIH, Islamabad

Project No. NHCG-22/R3-39 (**Awarded; 2023; In Progress**) **4.8 Million PKR**

Project 2B5. Production and Commercialization of Enzyme Linked Immunosorbent Assay (ELISA) based diagnostic kit specific for Pakistani isolates of *Citrus tristeza* Virus (CTV)" awarded by **Technology Development Fund (TDF)**, (HEC)

Project No. HEC/TDF04-204 (**In Progress. 2025**) **9.2 Million PKR**

Project 2B6. Development and Commercialization of a Zymodergent using Psychrotolerant Industrial enzymes. Submitted to NSLP drive by Pakistan Science Foundation.

Concept Note No. CP-1-2024-304-VIHA **21 Million PKR**

Project 2B7. Cost-efficient **commercial scale production of biomethane** from household biogas production plants by annotating the engineering controls,

physicochemical parameters, and physiology of the recombinant Psychrotrophic Methanogens. Submitted under **Innovator Seed Fund** by HEC Application No. Online **8 Million PKR**

2D. RESEARCH EXPERIENCE

- Nov. 2010- to date **As a PI; Applied Microbiology and Biotechnology (AMBL), IIUI**
- Jun 2014–July 2015 **Dr Lisa (Elizabeth A. Hall) Research Group, University of Cambridge, United Kingdom**
Nanosensors and their biomedical applications
- May –Nov 2007 **Dr. Susan R. Mikkelsen's Lab, University of Waterloo, Canada.**
 -working as group leader in the project "*Studies on alkaline phosphatase inhibition-based Biosensor* for diagnostics
- March-May 2007 **Dr Kesen Ma's Lab, University of Waterloo, Ontario, Canada.**
 - Production, purification, and characterization of thermostable, thermolabile enzymes and their applications
- Dr Owen P. Ward Lab, University of Waterloo, Ontario, Canada.**
 (Under the mentorship of Dr. Owen; the Director, Science and Business Program)
 - Innovation, Entrepreneurship and startups
- Feb 2006-2007 **PhD Research Work at Microbiology Research Lab, Quaid-I-Azam University, Islamabad, Pakistan (PhD Adviser- Professor Dr Fariha Hasan)**
 & 2008-2010
 - Isolation, identification and characterization of psychrophilic microorganisms; samples obtained from different glaciers of Pakistan
 - Identification and characterization of isolates according to standard microbiological techniques
 - Molecular identification and analysis of isolates
 - Screening and production of proteins (Enzymes) from these isolates
 - Characterization of enzymes for their optima
 - High-pressure liquid chromatography (HPLC)
 - Precipitation, Desalting and Lyophilisation

3. RESEARCH SUPERVISION
Total PhD Supervisee (10)
PhDs Produced (05); Supervising (05)

#	Name, and Advisor		Thesis Title / Institutions / Labs	Current Status
1.	Yasir Ali 2014-2019 1. Dr. Bashir Ahmad (IIUI) 2. Professor Dr Katy Kao Texas A&M University, Texas, USA		Production, Purification and Characterization of Psychrotolerant Alkaline Lipase and Protease and Their Application in Detergent Formulation (IIUI/ University of Texas-USA)	Degree awarded / Post Doc USA
2.	M. Musaddiq Shah 2016-2022 1. Dr. Bashir Ahmad (IIUI) 2. Professor Dr Joseph Irudayaraj University of Illinois, Urbana, IL, USA		Studies on Development of a Nanosensor for Organophosphorus Neurotoxin Monitoring (IIUI/ Illinois University, USA)	Degree awarded / Faculty Member, Pak
3.	Muhammad Riaz 2014 – 2022 1. Dr. Bashir Ahmad (IIUI) 2. Professor Jeongwon Park University of Ottawa, Ottawa, ON, Canada		Characterization and Biomedical Applications of Silver Nanoparticles Synthesized by Thermophilic Bacteria (IIUI/Uni. of Ottawa, Canada) Co-Supervisor: Dr. Farha Masood, Comsats Uni. Islamabad	Degree awarded / Post Doc Canada
4.	Ali Nadeem 2014- 2022 1. Dr. Bashir Ahmad (IIUI) 2. Professor Dr Lyle E. Cracker University of Massachusetts, Amherst, USA		Therapeutic Applications of Bioactive Metabolites from Extremophytes IIUI/ Massachusetts University, USA	Degree awarded / Faculty Member, Oman
5	Ayesha Aftab 79-FBAS/PhDBT/S17 1. Dr. Bashir Ahmad (IIUI)		Studies of downregulation of selected oncogenes in Ductal Carcinoma (<i>invasive ductal carcinoma</i>) using Selected Nanomaterials	Final defense notified / Post Doc, USA
6.	Muhammad Imran 109-FBAS/PHDBT/F19 1. Dr. Bashir Ahmad (IIUI) 2. Dr. Faisal Rasheed Pakistan Atomic Energy Commission, Pakistan		Prediction of Early Biosignatures in Breast and Stomach Cancer	Thesis submitted for evaluation / Clinician
7.	Malik Najam Farooq 12-FBAS/PhDBT/F22 1. Dr. Bashir Ahmad (IIUI) 2. Professor Haroon Ahmad, COMSATS University, Islamabad		Molecular Characterization, Diversity Insights, and Control Implications of Human Echinococcus Isolates in Pakistan	Research in progress / Clinician
8.	Muhammad Amir 122-FBAS/PHDBT/F22 1. Dr. Bashir Ahmad (IIUI)		Evaluating the Toxicity of Drinking Water in Pakistan and Its Impact on Public Health	Research in Progress / Clinician

9.	Aleem Munir 007055-FoS/PhDBT/F24 1. Dr. Bashir Ahmad		Design, Characterization and Commercialization of Rapid Point-of-Care Kits for <i>Citrus tristeza</i> virus and Evaluation of RNAi and VIGS-Based Control Approaches	Research in Progress / Research Assistant in TDF-204
10	Sakhawat Hussain 014577-FoS/PhDBT/F25 Dr. Bashir Ahmad		Commercialization of Rapid Point-of-Care Kits	Course Work in Progress / Research Assistant in TDF-204

3B: M. Phil students

Total M. Phils Produced/Thesis submitted/Research: __37__

3C: BS students (Final Year Projects – FYPs)

Total BS Students with Thesis submitted/Research continued: __61__

4. INTELLECTUAL PRODUCE / KNOWLEDGE CREATION

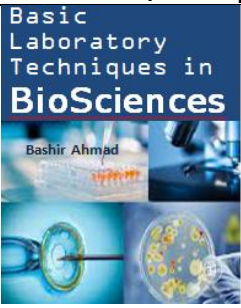
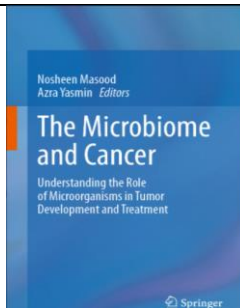
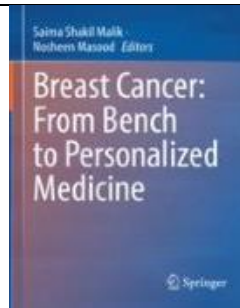
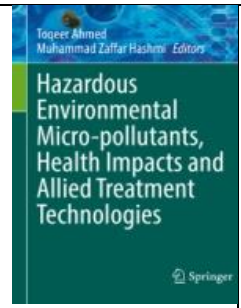
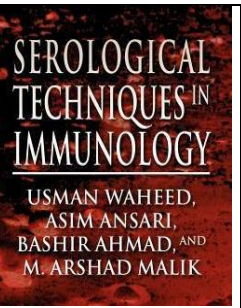
3A. Patents, Trademarks, Monograms

Sr. No	Patent No	Application No	Filing date	Applicant	Title	Granted date	Expiry date	Class
3A1	144012B	220345902	16.09.2022	Muhammad Imran, Faisal Rasheed, Bashir Ahmad	Natural Isotope Abundance as a Cancer Isotope Signature	Defended 07/08/2023	22/10/2039	D 06P 5/00n (2006.01)
3A2	5603	No. 53236	21.11.2021	Muhammad Waseem, Bashir Ahmad	Milk Testing Biostrip: A quality and pasteurization indicator	Submitted for Trade Mark	-	-
3A3	28	No. 16-71	12.11.2021	Areeba Tariq, Sobia Sunawar, Bashir Ahmad	Biogenic Antipimple cream	Prepared for Trade Mark	-	-

4B. Novel Microorganism

Bashir Ahmad , Fariha Hasan, Abdul Hameed. (2010). A psychrotrophic <i>Arthrobacter</i> sp. Nov. (MRLBA5). Deposited to culture collection centres [DSMZ (Germany) and LMG (Belgium)] ...01 (KEY strain name: MRLBA5=Microbiology Research Lab, Bashir Ahmad, Strain no. 5) https://www.dsmz.de/collection/catalogue/details/culture/DSM-23633	Isolate No. DSM-23633  
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4C. Books / Chapters

 Bashir Ahmad (2025). Basic Laboratory Techniques in Biosciences. https://link.springer.com/chapter/10.1007/978-981-19-0197-3_13	 Muhammad Imran, Bashir Ahmad (2024). Microbiome and Its Impact on Human Health https://link.springer.com/chapter/10.1007/978-981-97-6948-3_2	 Ayesha Aftab, Bashir Ahmad (2023). http://www.jpohs.com/articles/vol3/9%20Book%20Review.pdf	 Muhammad Imran, Bashir Ahmad (2022). Emerging Organic Contaminants, Personal Care Products, and Pharmaceuticals https://link.springer.com/chapter/10.1007/978-3-030-96523-5_6	 Usman Waheed, Asim Ansari, Bashir Ahmad, and M. Arshad Malik (2012). https://a.co/d/cQCudwE
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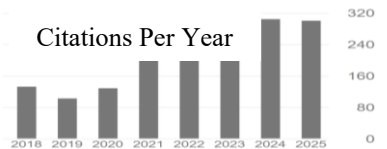
4D. RESEARCH PUBLICATIONS. 53

i. My ORCID [0000-0001-6047-3334]

<https://orcid.org/0000-0001-6047-3334>

ii. Google Scholar

<https://scholar.google.com/citations?user=oPOD2GcAAAAJ&hl=en>

 Dr. Bashir Ahmad Associate Professor International Islamic University Islamabad Post Doctorate, University of Cambridge, UK (2014-2015) Verified email at iiu.edu.pk - Homepage Industrial Microbiology Commercial Biotechnology Bio-entrepreneurship November 3, 2025			All Since 2020 Citations27671519 h-index2721 i10-index7140 Citations Per Year 			Impact ↑ Factor: 100+
S #	Name of Author	Name of Journal (Publisher): ISSN: Online / Print	Title of Publication	Vol. No. & Page No. and doi	Year Published	Impact Factor + Category
INTERNATIONAL JOURNALS						
1.	Noor ul Ain, Farha Masood, Leigh Madden, Bashir Ahmad , Talha Sharif Muhammad Nouman Khan Haris Bashir, David L. Becker Muhammad Farooq	Colloids and Surfaces A: Physicochemical and Engineering Aspects	Facile development and characterization of multifunctional PVA/Ag-doped Cu2O/Sep nanocomposite hydrogel film to combat multidrug-resistant infections	COLSUA-D-25-09646	2025	3.13 W

2.	Yasir Waheed, Sohail Naser Awan, Fahad Nasser Almajhdi, Bashir Ahmad , Abdul Sami & Dilber Uzun Ozsahin	BMC Infectious Diseases	Seroprevalence of Hepatitis B and Hepatitis C Viral Infections among Refugees in Muzaffarabad	25: 1212 https://doi.org/10.1186/s12879-025-11636-5	2025	3.08 W
3.	Hira Akram, Bushra Arshad, Minahil Imtiaz, Rais Shafiq, Zaheer Qasmi, Abbas Ali, Bashir Ahamd , Mudassir Iqbal	BMC Chemistry	A convergence of synthesis and antimicrobial research: imidazolium based dicationic ionic liquids	23;19(1):220. doi: 10.1186/s13065-025-01574-3	2025	4.3 W
4.	Aisha Tabassum, Bashir Ahmad , Maryam Jamila, Anam Abdul Rehman, Muhammad Javaid Asad, Muhammad Sheeraz Ahmad, Sarah Gul	Journal of Xi'an Shiyu University, Natural Sciences Edition ISSN : 1673-064X	Comparative FTIR Spectroscopic Analysis of Moringa oleifera Leaves Extracted in Polar and Non-Polar Solvents	28.10.2025	2024	0.24 Q2
5.	Muhammad Imran Mashhood Ali, Shahid Aziz, Bashir Ahmad , Felicity EB May, Paul R Afolabi, Jonathan Swann and Faisal Rasheed	Journal of Case Reports and Medical History (ISSN: 2831-7416)	Successful Correction of the Misdiagnosis of a Primary Liver Neuroendocrine Tumour with a Combination of Immunohistochemical and Radiological Assessments	Vol 4(5) doi https://doi.org/10.54289/JCRMH2400123	2024	1.2 W
6.	Ayesha Aftab, Bashir Ahmad , Ghulam Ali Mallah, Hafiz Muhammad Jafar Hussain, Aamna Dilshad, Muhammad Ajmal, Mudassar Iqbal	Human Gene (Science Direct)	Evaluating the association of missense mutations in cyclin E1 and MYC genes with breast cancer using computational analysis	https://doi.org/10.1016/j.humgen.2023.201231 Volume 38 No. 201231	2023	1.7 W
7.	Aftab, Ayesha; ahmad, bashir ; Bashir, Shazia; Bashir, Muhammad; Ghani, Tayyaba; Rafique, Saima; Air University Gul, Asma; Shah, Attaullah, Khan, Ranjha	Scientific Reports (Springer Nature)	Comparative study of microscale and macroscale technique for encapsulation of Calotropis gigantea extract in metal-conjugated nanomaterials	https://doi.org/10.1038/s41598-023-39330-z Vol. 13, 13474	2023	4.9 W
8.	Hussan, Abdullah, Bashir Ahmad , Muhammad Riaz	Journal of Applied Biology & Biotechnology.	In-vitro Study of HIV-Derived Reverse Transcriptase Inhibition	https://doi.org/10.22541/au.168252905.51610593/v1	2023	1.06 Y
9.	Muhammad Faheem; Syed Ali Imran Bokhari; Muhammad Arshad Malik; Bashir Ahmad ; Muhammad Riaz; Nafeesa Zahid; Adil Hussain; Abdul Ghani; Khurshid Ahmad; Abrar Khan; Muhammad Talha Yasin; Hasnat Tariq; Hassam Rasheed; Ali Zain;	Folia Microbiologica (Springer) 1874-9356	Production, purification and characterization of p-diphenol oxidase (PDO) enzyme from ligninolytic fungal isolate Schizophyllum commune MF-O5	https://link.springer.com/article/10.1007/s12223-023-01056-w	2023	2.69 W

10.	Arif ur Rehman, Aisha Tabassum, Nafeesa Zahid, Asif Jamal, Abdulrahim A. Sajini, Ayesha Aftab, Bashir Ahmad	Applied Nanoscience 2190-5517 Springer Science	<i>Artemisia vulgaris</i> reduced and stabilized Titanium Oxide Nanoparticles for antimicrobial and anti-fungal activity	https://doi.org/10.1007/s13204-023-02859-6	2023	4.2 W
11.	Adil Hussain, Muhammad Sajid, Daniel Potter, Hassam Rasheed, Mujtaba Hassan, Naeem Akhtar, Bashir Ahmad , Syed Ali Imran Bokhari	Biological Trace Element Research	Diversity in elemental content in selected <i>Artemisia</i> L. (Asteraceae) species from the Gilgit-Baltistan region of Pakistan	10.1007/s12011-022-03469-z	2022	4.08
12.	Kashaf Khalid, Tajamul Hussain, Zubia Jamil, Khalid Salm Alrokayan, Bashir Ahmad , Yasir Waheed*	Vaccines (MDPI)	Vaccinomics-aided development of a next-generation chimeric vaccine against the emerging threat	Vaccines 10, 1720 https://doi.org/10.3390/vaccines101720	2022	4.9 W
13.	Zubia Jamil, Shahida Parveen, Samreen Khalid, Mohammed Aljuaid, Memoona Shahzad, Bashir Ahmad , Yasir Waheed	Journal of Clinical Medicine: Gastroenterology & Hepatopancreatobiliary Medicine (MDPI)	Child-Pugh score, MELD score and Glasgow Blatchford score to predict the in-hospital outcome of portal hypertensive patients presenting with upper gastrointestinal bleeding	9;11(22):6654. doi: 10.3390/jcm11226654	2022	4.96 W
14.	Muhammad Musaddiq Shah, Khurshid Ahmad, Bashir Ahmad , Shahid Masood Shah, Hamid Masood, Muhammad Aamir, Ramzan Siddique & Rasheed Ahmad	Nanotechnology for Environmental Engineering 2365-6387 (Springer Nature)	Recent trends in green synthesis of silver, gold, and zinc oxide nanoparticles and their application in nanosciences and toxicity: a review	https://doi.org/10.1007/s41204-022-00287-5	2022	5.38 W
15.	Muhammad Riaz, Uzma Sharafat, Nafeesa Zahid, Muhammad Ismail*, Jeongwon Park*, Bashir Ahmad , Neelum Rashid, Muhammad Fahim	ACS Omega (American Chemical Society) 2470-1343	Synthesis of Biogenic Silver Nanocatalyst and their Antibacterial and Organic Pollutants Reduction Ability	7 (17): 14723–14734 https://doi.org/10.1021/acsomega.1c07365	2022	3.512 W
16.	Ali Nadeem, Hira Shahzad, Bashir Ahmed *, Tudor Muntean, Maaz Waseem and Aisha Tabassum	Frontiers in Plant Sciences (Plant Metabolism and Chemodiversity) 1664-462X	Phytochemical Profiling of Antimicrobial and Potential Antioxidant Plant: <i>Nepeta cataria</i>	13:2022 https://doi.org/10.3389/fpls.2022.969316	2022	6.62 W
17.	Rabia Hassan, Muhammad Asad Asghar, Mudassir Iqbal, Arshemah Qaisar, Uzma Habib, Bashir Ahmad	Heliyon (Cell Press: Science Direct) 2405-8440	A comparative evaluation of antibacterial activities of imidazolium-, pyridinium-, and phosphonium-based	08(05): 2022, e09533; https://doi.org/10.1016/j.heliyon.2022.e09533	2022	3.77 W

			ionic liquids containing octyl side chains			
18.	Muhammad Musaddiq Shah, Wen Ren, Joseph Irudayaraj , Abdulrahim A Sajini, Muhammad Ishtiaq Aliand Bashir Ahmad	Sensors (MDPI) 1424-3210, 1424-8220	Colourimetric detection of organophosphate pesticides based on acetylcholinesterase and cysteamine-capped gold nanoparticles as nanozyme	21(23), 8050 DOI: https://doi.org/10.3390/s21238050	2021	3.84 W
19.	Farhana Bibi; Asif Jamal; Mushtaq Ahamad; Muhammad Zafar; Bashir Ahmad	Saudi Journal of Biological Sciences (Elsevier- King Saud University) 1319-562X	Deciphering the role of technical bioprocess parameters for bioethanol production using microalgae	28(12): 7595-7606 DOI https://doi.org/10.1016/j.sbs.2021.10.011	2021	4.05 W
20.	Noureen Fatima, Asif Jamal, Zaixing Huang, Rabia Liaquat, Bashir Ahmad , Rizwan Haider, Muhammad Ishtiaq Ali *, Tayyba Shoukat, Zeid A. AlOthman, Mohamed Ouladmane, Tariq Ali, Shafqat Ali, Naseem Akhtar, Mika Sillanpää	Sustainability (MDPI) 2071-1050	Extraction and Chemical Characterization of Humic Acid from Nitric Acid Treated Lignite and Bituminous Coal Samples	13(16), 8969 DOI https://doi.org/10.3390/su13168969	2021	3.88 W
21.	Muhammad Riaz, Vishal Mutreja, Shweta Sareen, Bashir Ahmad , Muhammad Faheem, Nafeesa Zahid, Ghassan Jabbour & Jeongwon Park	Scientific reports (Springer; Nature publishing group) 2045-2322	Exceptional antibacterial and cytotoxic potency of monodisperse greener AgNPs prepared under optimized pH and temperature	11: (2866) 1-11 DOI https://doi.org/10.1038/s41598-021-82555-z	2021	4.379 W
22.	Ali Nadeem, Bashir Ahmed , Hira Shahzad, Lyle E. Craker, Tudor Muntean	Pharmacognosy Journal (EManuscript Technologies) 0975-3575	Verbascum Thapsus (Mullein) Versatile Polarity Extracts: GC-MS Analysis, Phytochemical Profiling, Anti-bacterial Potential and Anti-oxidant Activity	13(6):1488 -1497 Doi: 10.5530/pi.2021.13.189	2021	1.085 W
23.	Muhamad Imran, Bashir Ahmad , Farhan Maqbool, Ashfaq Ahmad, Arshad Malik, Shahid Aziz	Social Work in Public Health (Taylor & Francis) (Routledge) 1937-190X, 1937-1918	Preventive Measures and Active Response against COVID-19 Taken by All Four Provinces, Two Independent Territories, and the Federal State of the Islamic Republic of Pakistan, Islamabad	37(04): 381-396 https://doi.org/10.1080/19371918.2021.2011524	January 31, 2022	1.128 W
24.	Nadeem A, Ahmed B , Shahzad H, Imran M and Craker LE	International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS)	<i>Artemisia rutifolia</i> Mewah extracts: phytochemical	11(5): 2397-2422 https://doi.org/10.31032/IJBP	2022,	1.8 Y

		ISSN: 2277-4998	Profiling, gc-ms analyses, antibacterial and antioxidant Activity	AS/2022/1.5.6089		
25.	Muhammad Talha Yasin, Yasir Ali, Khurshid Ahmad, Abdul Ghani, Kinza Amanat, Muhammad Mudassir Basheir, Muhammad Faheem, Saddam Hussain, Bashir Ahmad , Adil Hussain & Syed Ali Imran Bokhari	Archives of Microbiology (Springer Verlag) 1432-072X, 0302-8933	Alkaline lipase production by novel meso-tolerant psychrophilic <i>Exiguobacterium</i> sp. strain (AMBL-20) isolated from the glacier of northeastern Pakistan	203,1309-1320 DOI: 10.1007/s00203-020-02133-1	2021	2.729 W
26.	Muhammad Riaz, Muhammad Ismail, Bashir Ahmad , Nafeesa Zahid, Ghassan Jabbour, Muhammad Shafiq Khan, Vishal Mutreja, Shweta Sareen, Aftab Rafiq, Muhammad Faheem, Muhammad Musaddiq Shah, M. I. Khan, Syed Ali Imran Bokhari and Jeongwon Park	Green Processing and Synthesis (Walter de Gruyter GmbH) 2191-9550, 2191-9542	Characterizations and analysis of the antioxidant, antimicrobial, and dye reduction ability of green synthesized silver nanoparticles	DOI https://doi.org/10.1515/gps-2020-0064 vol. 9, no. 1; 693-705	2020	3.97 W
27.	Faheem, Muhammad; Khalid, Zafar Mahmood; Shabbir, Muhammad; Ahmed, Bashir ; Jogezei, NaqeebUllah; Shaukat, Uzma; Ahmad, Bilal; Ghani, Abdul; Ullah, Hanif; Shah, Muhammad Musaddiq; Shah, Waseem; Riaz, Muhammad; Iqbal, Anwar; Basheir, Muhammad Mudassir; Mehmood, Rashid; Bokhari, Syed Ali	Analytical Methods (The Royal Society of Chemistry) 1759-9679, 1759-9660	Correction: Development of an ISFET-based enzyme assay for p-diphenol oxidase from locally isolated fungus <i>Schizophyllum commune</i> MF-O5	12 , 218 DOI: https://doi.org/10.1039/C9AY90192B	2020	3.532 W
28.	Muhammad Ali Furqan, .Uzma Farooq, Rabia Liaquat, Zahid Qureshi, Bashir Ahmad , Asif Jamal, Isfahan Tauseef, Syed Kashif Haleem, Inayat Ullah, Muhammad Ishtiaq Ali	Polish Journal of Environmental Studies (Journals System by Bentus; HARD) 1230-1485	Catalytic Efficiency of Acidithiobacillus ferrooxidans for Bioleaching Copper from Chalcocite Containing Sulfide Ore from Reko Diq Deposits in Pakistan	29: 2 1593-1600 DOI: https://doi.org/10.15244/pjoes/96257	2020	1.87 W
29.	Faheem, Muhammad; Khalid, Zafar Mahmood; Shabbir, Muhammad; Ahmed, Bashir ; Jogezei, NaqeebUllah; Shaukat, Uzma; Ahmad, Bilal; Ghani, Abdul; Ullah, Hanif; Shah, Muhammad Musaddiq; Shah, Waseem; Riaz, Muhammad; Iqbal, Anwar; Basheir, Muhammad Mudassir; Mehmood, Rashid; Bokhari, Syed Ali	Analytical Methods (The Royal Society of Chemistry) 1759-9679, 1759-9660	Development of ISFET Based Enzyme Assay for p-Diphenol Oxidase from locally isolated fungus <i>Schizophyllum commune</i> MF-O5	11, 5893-5900 https://doi.org/10.1039/C9AY01595G	2019	2.07 W
30.	Yasir Waheed, Muzammil Hasan Najmi, Hafsa Aziz, Sumbul Khalid, Hasnain Waheed, Muhammad Imran, & Bashir Ahmad	Critical Reviews in Eukaryotic Gene Expression (Begell House Inc) 1045-4403	Evaluation of Three Rapid Screening Tests for Detection of Hepatitis C Antibodies on Mass Scale	29(1):25-28 DOI: 10.1615/CritRevEukaryotGeneExpr.2018025062	2019	2.1 W

31.	Yasir Ali, Bashir Ahmad , Naqeebullah Jomezai, Adil Hussain	Sarhad Journal of Agriculture (Researchers Links, UK) 1016-4383, 2224-5383	Screening and Characterization of Thermolabile Protease and Alkaliphilic Lipase Producing Psychrotrophic Stenotrophomonas sp. and Pseudomonas sp.	35 (3): 770-781 DOI: http://dx.doi.org/10.17582/journal.sja/2019/35.3.770.781	2019	0.47 ISSN: P: 1016-4383 O: 2224-5383 UK Y
32.	Bashir Ahmad , Aamer Ali Shah, Safia Ahmed, Abdul Hameed, Arif Mahmud, Fariha Hasan*	Applied Ecology and Environmental Research (Corvinus University of Budapest) 1785-0037, 1589-1623	Production of alkaline phosphatase from a facultative psychrophilic <i>Pseudomonas</i> sp. MRLBA1 isolated from Passu Glacier, Pakistan	16(1):807-818 DOI: http://dx.doi.org/10.15666/aeer/1601_807818	2018	0.711 W
33.	Hajra Hanif, Muhammad Ishtiaq Ali, Awais Anjum, Naeem Ali, Asif Jamal, Bashir Ahmad	American Journal of Tropical Medicine and Hygiene (American Society of Tropical Medicine and Hygiene) 1476-1645, 0002-9637	Isolation and antibiogram of <i>Clostridium tetani</i> from clinically diagnosed Tetanus patients	93:752-756 DOI: 10.4269/ajtmh.15-0040	2015	2.44 W
34.	Farha Masood • P. Chen • Tariq Yasin, Fariha Hasan • Bashir Ahmad • Abdul Hameed	Journal of Materials Science; Materials in Medicine (Springer Netherlands) 1573-4838, 0957-4530	Synthesis of poly-(3-hydroxybutyrate-co-12 mol % 3 hydroxy valerate) by <i>Bacillus cereus</i> FB11: its characterization and application as a drug carrier	24: 1927-1937 DOI: 10.1007/s10856-013-4946-x	2013	3.896 W
35.	Usman Waheed, Khizar Hayat, Bashir Ahmad , Yasir Waheed, Hasan Abbas Zaheer	Journal of Clinical Virology (Elsevier) 1386-6532, 1873-5967	Evaluation of HIV/AIDS diagnostics kits and formulation of a testing strategy for Pakistan	56:4; 367–369 DOI: https://doi.org/10.1016/j.jcv.2012.12.012	2013	3.168 W
36.	Imran Javed, Muhammad Ishtiaq Ali, Bashir Ahmed , Pir Bux Ghumro, Abdul Hameed & Safia Ahmed	Food Biotechnology (Taylor & Francis Ltd) 0890-5436, 1532-4249	Optimization and partial purification of bacteriocins from <i>Enterococcus</i> spp. indigenous to Pakistan	25:2 130-139 DOI: https://doi.org/10.1080/08905436.2011.576559	2011	1.513

37.	Pir Bux Ghumro*, Maryam Shafique, Muhammad Ishtiaq Ali, Imran Javed, Bashir Ahmad , Asif Jamal, Naeem Ali and Abdul Hameed	African Journal of Microbiology Research (Academic Journals) 996-0808	Isolation and screening of protease producing thermophilic Bacillus strains from different soil types in Pakistan	5: 5534-5539 DOI: 10.5897/AJMR10.297	2011	0.71
38.	Imran Javed, Safia Ahmed, Srikanth Manam, Mariam Riaz, Bashir Ahmad , M. Ishtiaq Ali, Abdul Hameed, and G. Jilani Chaudry	Journal of Food Protection (International Association for Food Protection) 1944-9097, 0362-028X	Production, Characterization, and Antimicrobial Activity of a Bacteriocin from Newly Isolated Enterococcus faecium IJ-31	73:1 44-52 DOI: 10.4315/0362-028x-73.1.44	2010	2.745 W
39.	Javed, Imran, Safia Ahmed, Muhammad Ishtiaq Ali, Bashir Ahmad , Pir Bux Ghumro, Abdul Hameed and Ghulam Jilani Chaudry	Journal of Microbiology and Biotechnology (Korean Society for Microbiology and Biotechnology) 1738-8872, 1017-7825	Bacteriocinogenic Potential of Newly Isolated Strains of Enterococcus faecium and Enterococcus faecalis from Dairy Products of Pakistan	20:1 153-160 DOI: 10.4014/jmb.0904.04024	2010	3.277 W
40.	Naima Atiq, Safia Ahmed, M. Ishtiaq Ali, Saadia Andleeb, Bashir Ahmad and Geoffery Robson	African Journal of Microbiology Research (Academic Journals) 996-0808	Isolation and identification of polystyrene biodegrading bacteria from soil	4:1537-1541 https://academicjournals.org/journal/AJMR/article-full-text-pdf/42B521113910.pdf	2010	0.71 W
NATIONAL JOURNALS						
41.	Raja Mehtab Ahmad, Bashir Ahmad	RADS Journal of Biological and Applied Sciences 2305-8722 RADS Journal of Biological Research & Applied Sciences	Isolation and Screening of Marine Bacterial Metabolites against Beta-Lactamase-Producing Bacteria	Published Vol. 16 (1), June 2025 https://jbas.ju.edu.pk/index.php/JBAS/article/view/742	2025	Y
42.	Muhammad Imran, Bashir Ahmad	Annals of PIMS 1815-2287 2075-7247	Methotrexate drug plug and play role in Human body	15 (4) https://doi.org/10.48036/apim.v15i4.262	2019	Y
43.	Afsheen Mansoor, Emaan Mansoor, Aleesha Sana Muhammad Mohsin Javaid, Bashir Ahmad , Khadim Hussain	Pakistan Armed Forces Medical Journal www.pafmj.org	Clinical efficacy of Azadirachta indica based herbal mouthwash in treating	Manuscript ID: pafmj-43 12.09.2023	2023	Y

			the hypersensitivity of teeth			
44.	Qasim Z, Waheed U, Shaukat A, Saba N, Shaukat A, Azam S, Ahmad B , Mahmood RT, Wazeer A.	BMC Journal of Medical Sciences Print: 2790-3419 Online: 2790-3419	Step-wise Approach to Diagnose Pancytopenia: Experience from a Tertiary Care Hospital in AJ&K, Pakistan.	3(1):7-15	2022	HEC Recognized ISSN: 1683-3570,1683-3562 Y
45.	Kashif Rauf, Tehmina Qamar, Bashir Ahmad , Shoaib Malik, Nadeem Naseem, Naseer ud Din	Journal of Rawalpindi Medical College (Rawalpindi Medical University (RMU), Rawalpindi) 1683-3570, 1683-3562	A comparative study to evaluate the effects of ALT normalization in the first month of treatment by SOFOS/RIB therapy versus SOFOS/DAC therapy in HCV-infected individuals in Pakistan	23(4): 208-212 https://www.journalrmmc.com/index.php/JRMC/article/view/1295	2019	HEC Recognized ISSN: 1683-3570,1683-3562 Y
46.	Bashir Ahmad , Asma Ahmed, Ghazala Irshad, Hassan Raza Aslam, Noman Khalique	Pakistan Journal of Medical & Health Sciences (LAHORE MEDICAL & DENTAL COLLEGE) 1996-7195	Anti-Diabetic and Anti-Oxidative Role of a Local Medicinal Plant <i>Justicia Adhatoda</i> L in Diabetes Mellitus	13 (1): 91-95 https://www.pimhsonline.com/2019/jan_march/pdf/91.pdf	2019	HEC** recognised; Y
47.	Yasir Ali, Bashir Ahmad , Khalid M. Alghamdi, Tahseen Kamal, Hani S.H. Mohammed Ali, Yasir Anwar, Adil Hussain and Naqeeb Ullah Jogeza	International Journal of Agriculture & Biology (Friends Academics and Research (Pvt.) Ltd.) 1560-8530, 1814-9596	Characterization of Recombinant Cold Active Lipase from a Novel Pseudomonas spp. MG687270	22: 855–865 DOI: 10.17957/IJAB/15.1141	2019	0.887 W
48.	Kiran Manzoor, Noshin Ilyas, Nazima Batool, Bashir Ahmad , Muhammad Arshad	Journal of the chemical society of Pakistan (Chemical Society of Pakistan) 0253-5106	Effect of salicylic acid on the growth and physiological characteristics of maize under stress conditions	37: 588-593 Ref. No. 47058419	2015	0.51 W
49.	Tanvir Ibrahim, Anwar Begum, Mazhar Ullah Memon, Shazia Adeel, Ghazala Parveen, Fazl I Wahid, Wasif, Bashir Ahmad	Journal of Public Health and Biological Sciences	Thermo stability study of vero cell culture rabies vaccine in Pakistan	1:47-52	2012	Submitted for recognition by HEC Z
50.	Usman Waheed, Maryam Yousaf, Bashir Ahmad , Lisa Bryde, Hasan Abbas Zaheer	Journal of Public Health and Biological Sciences	Perception about HIV/AIDS among University Students of Islamabad and Rawalpindi, Pakistan	1:14-18	2012	Submitted for recognition by HEC Z

51.	Muhammad Arshad Usman Waheed, Asim Ansari, Bashir Ahmad	Journal of Public Health and Biological Sciences	Serological Techniques in Immunology: A book review	1(3):1-2	2012	Submitted for recognition by HEC Z
52.	Saadia andleeb, naima atiq, muhammad ishtiaq ali, raja razi-ul-hussnain, maryam shafique, bashir ahmad , pir bux ghumro, masroor hussain, abdul hameed and safia ahmad	International Journal of Agriculture Biology (Friends Academics and Research (Pvt.) Ltd.) 1560-8530, 1814-9596	Biological Treatment of Textile Effluent in Stirred Tank Bioreactor	12:256-260 http://www.fspublisher.org/.../17.pdf	2010	0.88 W
53.	muhammad ishtiaq ali, qaiser perveen, bashir ahmad , imran Javed, raja Razi-ul-hussnain†, saadia Andleeb, naima atique, pir bux ghumro, safia ahmed and abdul hameed	International Journal of Agriculture Biology (Friends Academics and Research (Pvt.) Ltd.) 1560-8530, 1814-9596	Studies on Biodegradation of Cellulose Blended Polyvinyl Chloride Films	11:577-580 https://www.fspublishers.org/current_issue.php?file_download=published_papers/21301_.pdf	2009	0.88 W

5. Administrative Duties

	Responsibility	Status
1.	<u>Head, Industrial Linkages and Commercialization Working Group</u>	January 21, 2025 to date
2.	<u>In charge of Academic Affairs</u> (Department of Biological Sciences)	27.06.2022 to-date 26.06.2025 Letter No. HRM-I/2022-IIU-623
4.	Faculty advisor to Human Rights Forum, IIUI Students	23.09.2013 to 22.09.2014 Letter No. Estab-2(31)/2012-IRD-IIU-1136
5.	Career counselling of students in the transition of college to university	01.09. 2015 to 31.08. 2017
6.	In-charge Lawn Tennis Courts IIUI	01.01.2012 – 31.12.2013
7.	Admissions, Conduct of Exams, Curriculum update	2010 to date
8.	Member (Sub-committee, University's Corporate Profile); Strategic Plan, Post Graduate Program Review (PGPR)	30.06.2022 to date
9.	Faculty Focal person for the Central Management System (CMS), and Sports	05.08.2022 to date
10.	Faculty focal person, ORIC	2023 - 2024

11.	Faculty Focal Person, Sports Gala	2024, 2025
12.	Member Board of Studies Department of Biosciences, Capital University of Science and Technology, Islamabad	01.01.2021 to date
13.	Look after charge as Chairman Department of Biological Sciences (In the absence of the Chairman, DBS)	Occasional

6. RESEARCH COMMERCIALIZATION / STARTUPS / Outreach

1.	August 15, 2009	"Deputy Director of Innovation and Commercialization" , but quitted upon entering as an Assistant Professor (IIUI)	Center for Innovation and Entrepreneurship (CIE) National University of Science and Technology (NUST), Islamabad
2.	November 01, 2021 <i>Functional to date</i>	Launched a Startup: The EduTronics (SMC-PRIVATE) Limited at IIUI	Business Incubation Center (BIC); IIUI Running effectively
3.	November 20, 2021 <i>Dormant after Corona Clearance</i>	Launched a Startup: Clinical Express (PVT) Limited at BIC-IIUI	Business Incubation Center (BIC); IIUI Stopped after Covid 19
4.	November 11-16, 2018	CitroMetrics: Citrus-based products [Biogenic Cream, 7 Essential Oils] Jump Start up Pakistan "organized by Up Lift Pakistan"	1 st prize in the Category of Biologicals. Running through students
5.	2020 to date	You Tube Channel EduTronics , running effectively	https://youtube.com/@Drbashirahmad Current status: Active
6.	December 12, 2016	Biotech Enterprises: Product; Biogas Production Plant Research-Based Business Competition at CASE SPARK 2016	3 rd prize Current Status: Inactive
7	March 01, 2023 onwards	Biomerchant: Essential oils, Sanitizer, Biogenic Anti-acne Cream, Anti-aging serum, Moringa	Domestic scale finished form of these products is available from my lab Current Status: Active

8	April 21, 2024	Renewable Energy Solutions: Biogas, Artificial Firewoods	Development and commercialization of Biomethane Development and commercialization of Artificial firewood logs Current Status: Working
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7. Collaborations

1.	Institutions	1. National Institute of Health, Islamabad 2. National Agriculture Research Center, Islamabad 3. National University of Sciences and Technology, Islamabad	Current Status: Active
2.	Industries	1. Sukoon Wellnes, Faisalabad (MoU signed – Active) 2. Welwrd Pharma, Hattar, KP (MoU signed – Active) 3. Shaheen Citrus, Pakistan (MoU signed – Active) 4. Al-Qawi Steels, Islamabad (MoU signed – Active)	Current Status: Active

8. REFERENCES

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Communicates after prior appointment

Please feel free to communicate for any information should you need further

Yours truly



Bashir Ahmad