



## Profession



## Academics



## Research



## Summary



## Objective

# DR. BASHIR AHMAD

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**Associate Professor (Biotechnology) at IUI / (Incharge Academic Affair) 10.06.2022 to date**  
**Assistant Professor (Biotechnology) at IUI (2010-2022)**

**Post PhD Experience:** 14 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	08
- MS/ M. Phils produced/ Supervising	35
- BS students' Final Year Projects	52
- Research Grants	05
- Research publications and GenBank submissions	51+25 =76
- 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 305, Department of Biological Sciences, Science and Technology Block, 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

\*IUI: 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**

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## 1. TEACHING

### 1A. TEACHING EXPERIENCE

Year	Designation	Employer
2022 to date	Associate Professor	International Islamic University, Islamabad
2010 -2022	Assistant Professor	International Islamic University, Islamabad
2009-2010	Lecturer (visiting) MPhil courses	PMAS-Arid Agriculture University, Rawalpindi
2007	Teaching Assistant (Undergrads)	University of Waterloo, Canada
2006	Teaching Assistant (MSc students)	Quaid-i-Azam University, Islamabad
2005-2006	Senior Lecturer for Biology O/A Levels	Zawiya Academy, F-8, Islamabad,

### 1B. TEACHING COURSES

**BS Biotechnology;** Industrial Biotechnology (BT-401), Microbial Biotechnology (BT-307)  
**MS Biotechnology;** Advanced Microbiology (BT-515), Advanced Biotechnology (BT-512)  
**PhD Biotechnology;** Microbial Biotechnology (BT-769)

### 1 C. COURSES DESIGNED

**BS Biotechnology;** Industrial Biotechnology (BT-401), Analytical Chemistry and Instrumentation (BT-298)  
**MS Biotechnology;** Advances in Industrial Biotechnology (BT-605)  
**PhD Biotechnology;** Microbial Biotechnology (BT-769)

### 1 C1. COURSES UPDATED

**MS Biotechnology;** Advances in Microbial Genetics (BT-513), Advances in Industrial Biotechnology (BT-605), Advances in Microbiology (BT-511)

## 2. RESEARCH

### 2A. Laboratory

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

### 2A1. 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**

#### Post Doctoral Research project:

Development of alkaline phosphatase coupled nanosensors for biomedical applications

Advisor: *Professor Dr Elizabeth A. Hall*

### 2B. 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. Working as an active Co-Pi in this project

Project No. HEC/R&D/RGA/NRPU/2021/18758 **(Awarded 2021; In Progress) 9 Million PKR**

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

Project No. NHCG-22/R3-39 **(Awarded; April 03, 2023; In Progress) 5.0 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)" Submitted to **Technology Development Fund (TDF)** by (HEC)

**Application No. 22910 (Shortlisted 01/02/2024) 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**

## 2C. 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
  - Purification of enzymes using;
    - High-pressure liquid chromatography (HPLC)
    - Size exclusion chromatography
    - Ion exchange chromatography
    - Precipitation, Desalting and Lyophilisation

### 3. RESEARCH SUPERVISION

**Total PhD Supervisee (08)**  
**PhDs Produced (05); Supervising (03)**

#	Name, and Advisor		Thesis Title / Institutions / Labs	Current Status
1.	Yasir Ali 2014-2019 <b>1. Dr. Bashir Ahmad (IIUI)</b> <b>2. Professor Dr Katy Kao</b> 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 <b>1. Dr. Bashir Ahmad (IIUI)</b> <b>2. Professor Dr Joseph Irudayaraj</b> 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 <b>1. Dr. Bashir Ahmad (IIUI)</b> <b>2. Professor Jeongwon Park</b> 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 <b>1. Dr. Bashir Ahmad (IIUI)</b> <b>2. Professor Dr Lyle E. Cracker</b> 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 <b>1. Dr. Bashir Ahmad (IIUI)</b>		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 <b>1. Dr. Bashir Ahmad (IIUI)</b> <b>2. Dr. Faisal Rasheed</b> 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 <b>1. Dr. Bashir Ahmad (IIUI)</b> <b>2. Professor Haroon Ahmad,</b> 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 <b>1. Dr. Bashir Ahmad (IIUI)</b>		Evaluating the Toxicity of Drinking Water in Pakistan and Its Impact on Public Health	Research in Progress / Clinician

### 3B: M. Phil students

Total M.phils Produced/Thesis submitted/Research: 35

Sr. No.	Name, Father name, and Registration No.	Thesis Title	Year and status
1	Muhammad Adnan 5-FBAS/MSBT/S11	Studies on In-vitro analysis of the antimicrobial efficacy of some plant extracts against vibrio cholera	Completed 2014
2	Faheem Usman 4-FBAS/MSBT/S11	Biochemical indicators and recurrence profile of ischemic heart disease patients getting angioplasty in KPK, Pakistan	Completed 2014
3	Zahid Mehmood 47-FBAS/MSBT/F12	Molecular Characteristics of Aflatoxin M1 in Milk	Completed 2014
4	Atta ur Rehman 72-FBAS/MSBT/F13	Evaluation and diagnostic effectiveness of syphilis screening assays in Pakistan	Completed 2015
5.	Waseem Shah S/o Mutahir Shah 177- FBAS/MSBT/2014	Studies on the Development of Alkaline Phosphatase Coupled Milk Biosensor	Completed 2017
6.	Izhar Ali s/o Ali Haider Shah 163-FBAS/MSBT/F14	Studies on the development of a microbial biosensor for food quality	Completed 2017
7.	Muhammad Sarfraz S/o Bashir Ahmad Sabqi 161 FBAS/MSBT/F14	Studies on the development of a microbial biosensor for environmental applications	Completed 2017
8.	Sayyad Waqas Umar S/o Umar Muhammad, 173- FBAS/MSBT/F14	Studies on the characterization of plant-based antidote against snake venom <b>Co-supervisor: Ms Amina Wajid (NIH, Islamabad)</b>	Completed 2017
9.	M. Afzal Shah 212-FBAS/MSBT/F15	Studies of nanoparticle-induced activation and inhibition kinetics of alkaline phosphatase	Completed 2018
10.	M. Hashim Raza 247-FBAS/MSBT/S16	'Studies on development of a rapid microbial detection system' <b>Co-supervisor: Professor Hamid Mukhtar (GCU, Lahore)</b>	Completed 2018

11.	Farhan Maqbool 354/FBAS/MSBT/F-17	Production and partial characterization of psychrophilic lipase from <i>Pseudomonas aeruginosa</i>	Completed July 02, 2019
12.	Muhammad Imran 375-FBAS/MSBT/F17	Methotrexate and Methotrexate Derivatives activity against bacteria, fungus and cancer cell <b>Co-supervisor: Dr Mudassir Iqbal (NUST, Islamabad)</b>	Completed July 02, 2019
13.	Muhammad Bilal 350-FBAS-MSBT-F17	Evaluation of Extract from Aloe vera and Cucumis Sativus to formulate an anti-Inflammatory Cosmetic Cream	2019 Completed
14.	Nisar Hussain Shah, 360-FBAS/MSBT/F17	Evaluation of Hypoglycemic Activity of Polarity Based (More Polar to Less Polar) Honey Extracts <b>Co-supervisor: Dr Asma Ahmed</b> (University of Lahore, Lahore)	2019 Completed
15.	Mohsin Raza 362-FBAS/MSBT/F17	Frequency and Sensitivity Pattern of Mycobacterium tuberculosis against First-Line Anti-tuberculosis Drugs <b>Co-supervisor: Lt Col. Wajid Hussain</b> (AFIP, CMH, Rawalpindi)	2019, Completed
16.	Muhammad Afaq Johar 380-FBAS/MSBT/F17	Formulation of Value added Compounds from citrus 8ri fur8te (kinnow)	2019 Completed
17.	Sohail Naser 365-FBAS/MSBT/F17	Hepatitis B and C Screening of Indian Occupied Kashmir (IOK) Refugees of Muzaffarabad Division, AJK <b>Co-supervisor: Dr Yasir Waheed</b> (Foundation Medical University, Rawalpindi)	2019 Completed
18.	Waqas Ahmad Qureshi 379-FBAS/MSBT/F17	Hepatitis E Screening of Indian Occupied Kashmir (IOK) Refugees of Muzaffarabad Division, AJK <b>Co-supervisor: Dr Yasir Waheed</b> (Foundation Medical University, Rawalpindi)	2019 Completed



19	Muhammad Qasim 426-FBAS/MSBT/F18	Purification of thermophilic DNA polymerase from <i>Pseudomonas aeruginosa</i>	2020 Completed
20	Waqas Ahmad 405-FBAS/MSBT/F18	Formulation of silver nanoparticles adsorbed bactericidal cold cream against clinical pathogens	2020 Completed
21	Fawad Akhtar 423-FBAS/MSBT/F18	Characterization and application of silver nanowires in wound dressing and its dermal assessment <b>Co-Supervisor: Dr Naeem Ahmad</b>	2020 Completed
22	Hussan 414-FBAS/MSBT/F18	In-vitro study of HIV derived Reverse Transcriptase Inhibition <b>Co supervisor: Dr. Mudassar Iqbal</b>	2020 Completed
23	Raja Mehtab 408-FBAS/MSBT/F18	Beta-Lactamase inhibition studies using synthetic salts and metabolites from marine bacteria	2020 Completed
24	Sabayel Hassan 411-FBAS/MSBT/F18	Applicable Control of Opportunistic Pathogens by ZnO Nanoparticles	2020 Completed
25	Abdul Jalil Khan 416-FBAS/MSBT/F18	Application of mint leaves-based silver nanoparticles in wound healing in experimental rats	2020 Completed
26	Arifur Rehman 443-FBAS/MSBT/F19	Characterization and Antimicrobial Applications of Titanium Oxide Nanoparticles Synthesized using <i>Artemisia vulgaris</i>	2022 Completed
27	Muhammad Waleed Khan 504-FBAS/MSBT/S-21	Studies on the inhibition kinetics of aflatoxin b1 from <i>Aspergillus flavus</i> using nanomaterial-based binders	2023 Completed
28	Muhammad Kamran 489/FBAS/MSBT/F20	Effect of co-infection of Hepatitis B, Hepatitis C, and CoVID-19 on Pakistani patients depicted through Liver Function Tests (LFTs) and Complete Blood Count (CBC)	2023 Completed
29	Abdullah 501-FBAS/MSBT/S21	Evaluation of prevalent Tuberculosis (TB) diagnostic assays and formulation of a cost-effective TB testing strategy for rural	2023 Completed

		areas of Pakistan	
30	Aswad Khan 552-FBAS/MSBT/F21	Characterization of the Antivenom proteins Co-Supervisor: <b>Dr Amina Wajid</b> , NIH, Islamabad	2023 Completed
31	Aleem Munir 550-FBAS/MSBT/F21	Purification of the Antivenom proteins Co-Supervisor: <b>Dr Amina Wajid</b> , NIH, Islamabad	2023 Completed
32	Sikhawat Hussain 555-FBAS/MSBT/F21	Studies on the poultry vaccine development <b>Co-Supervisor: Dr. Zahid Manzoor</b> , PMAS-AAU Rawalpindi	2023 Completed
33	Muhammad Abubakar Siddique 554-FBAS/MSBT/F21	Prevalence and risk factors of hepatitis b and c in the poverty-stricken population of the district Jhang <b>Co-Supervisor: Dr Yasir Waheed</b> , Director ORIC, Shaheed Zulfiqar Ali Bhutto Medical University, Islamabad	2023 Completed
34	Naseer Ahmad 497-FBAS/MSBT/F20	The Prevalence of HIV/AIDS in Eastern Zone of Afghanistan	2024 Thesis submitted
35	Muhammad Abbas 582-FBAS/MSBT/F22	Genomic Annotation and Comparative genomic Analysis of <i>Staphylococcus aureus</i> isolated from human sepsis and endocarditis Infections	2024 Research in Progress

### 3C: BS students

(Total BS Students with Thesis submitted/Research continued: 52)

Sr. No.	Name, Father name, and Registration No.	Thesis Title	Year
1	Muhammad Bilal 260/FBAS/BSBT/F12	Isolation and Optimization of Alkaline Lipase Producing Psyrchotrophic Bacteria	Completed 2016
2	M. Asad Ishaq 262-FBAS/BSBT/F12	Synthesis of Silver Nanoparticles from Thermophilic Bacteria	Completed 2016
3	Hasan Raza Aslam 261-FBAS/BSBT/F-12	Evaluation of Antidiabetic, Antioxidant and Antimicrobial potential of <i>Justicia adhatoda</i> L.	Completed 2016

4	Areeba Tariq 512/FBAS/BSBT/F13	Formulation of Antipimple Medicated Cream using Mandarin ( <i>Citrus Reticulate</i> ) Seeds	Completed 2017
5.	Ayesha Zaman 455/FBAS/BSBT/F13	Formulation of Anti-Acneic Medicated Cream using Mandarin ( <i>Citrus Reticulate</i> ) Seeds	Completed 2017
6.	Rubina Riaz 413/FBAS/BSBT/F13	Studies on The Formulation of Medicated Body Wash Using Mandarin ( <i>Citrus reticulate</i> ) Juice	Completed 2017
7.	Sara Arif 487/FBAS/BSBT/F13	Studies on The Formulation of Medicated Lotion Using Mandarin ( <i>Citrus reticulate</i> ) Juice	Completed 2017
8.	Sobia Sanawar Rathore 433/FBAS/BSBT/F13	Formulation of the medicated anti-pimple cosmetic base using mandarin ( <i>Citrus reticulate</i> ) peels	Completed 2017
9.	Muneeba Bibi Qureshi 441/FBAS/BSBT/F13	Formulation of medicated scar healing cosmetic foundation using mandarin ( <i>Citrus reticulate</i> ) peels	Completed 2017
10.	Faisal Ashraf 535/FBAS/BSBT/F13	Evaluation of Deferral Pattern Among the Blood Donors in Islamabad	Completed 2018
11.	Asfand Yar Khan 635-FBAS/BSBT F14	Green Synthesis of Silver Nanoparticles and their effect on the Activity of Alkaline Phosphatase.	Completed 2018
12.	Muhammad Bilal 650-FBAS-BSBT-F14	Improvement of protease activity from <i>Bacillus licheniformis</i> using random mutagenesis through UV light	Completed 2018
13.	Raza Qazi	Essential oil production from folk plant	Completed 2019
14.	Al-asar Shah	Antimicrobial efficacy of Rakhpeen	2019 Completed
15.	Ali Hassan 788/FBAS/BSBT/S16	Synthesis of nanowires and their application as antimicrobial agent	2019 Completed
16.	Yawar Abbas 793/FBAS/BSBT/S16	Synthesis of nanocomposites and their application as antimicrobial agents	2019 Completed
17.	Ibrahim Khan 764-FBAS/BSBT/F15	Synthesis of nanobubbles	2019 Completed
18.	Fareeha	Antimicrobial activity of silver nanoparticles <b>(In co-supervision)</b>	2019 Completed
19.	Fatima	Antimicrobial activity of copper nanoparticles <b>(In co-supervision)</b>	2019 Completed
20.	Arsalan Mukhtar 1010-FBAS-BSBT-F17	Synthesis, Characterization and Antibacterial Activity of Silver	2021 Completed

		Nanoparticles Prepared from Benzoin Gum(Loban) Extract	
21.	Furqan Alvi 1019-FBAS/BSBT/F17	Synthesis and Characterization of Nanomaterials from Clove	2021 Completed
22.	Muzamil Hussain 986-FBAS/BSBT/F17	Green synthesis of zinc Nitrate nanoparticles of peppermint	2021 Completed
23.	Hammad Mustafa 979-FBAS/BSBT/F17	Harmful effects of local cosmetics and benefits of Vitamin C serum	2021 Completed
24.	Abdul Moid Khan [1007 -FBAS/BSBT/F17]	Formulation of anti-acne cream using turmeric extract	2021 Completed
25.	Muhammad Namel [1012-FBAS/BSBT/F17]	Formulation of anti-acne cream using turmeric extract	2021 Completed
26	Shan	Comparison of physical, chemical and biological methods of synthesis of silver nanowires	2022 Completed
27	Muhammad Hassan Askari 1183-FBAS/BSBT/S19	Isolation of Thermophilic bacteria	2022 Completed
28	Ahtasham Khurshid Gillani 1169-FBAS/BSBT/S19	Purification of Thermophilic polymerase	2022 Completed
29	Abdur Rehman 1174-FBAS/BSBT/S19	Purification of Thermophilic polymerase	2022 Completed
30	Khurram Shehzad 1155-FBAS/BSBT/S19	Mushroom Culturing	2022 Completed
31	Hamza Aslam 1154-FBAS/BSBT/S19	Mushroom Culturing	2022 Completed
32	Kamran Khan	Anti-ageing serum development	2022 Completed
33	Atif Khan	Anti-acne cream development	2022 Completed
34	Adnan Khan 1142-FBAS/BSBT/S19	Antimicrobial susceptibility against food-borne pathogens	2022 Completed
35	Farooq Ahmad Khan 51-FBAS/BSBio/S19	Antimicrobial susceptibility against food-borne pathogens	2022 Completed
36	Muhammad Haroon Malik 1163-FBAS/BSBT/S19	Antimicrobial susceptibility against food-borne pathogens	2022 Completed

## 4. INTELLECTUAL PRODUCE / KNOWLEDGE CREATION

### 4A. Patents

Sr. No	Patent No	Application No	Filing date	Applicant	Title	Granted date	Expiry date	Class
4A1	144012B	No. <b>220345902</b>	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)
4A2		No. 53236	21.11.2019	Muhammad Waseem, Bashir Ahmad	Milk Testing Biostrip: A quality and pasteurization indicator	Submitted for Trade Mark		
4A3			12.11.2021		Biogenic Antipimple cream	Prepared for Trade Mark		

### 4B. Novel Microorganism

**Bashir Ahmad**, Fariha Hasan, Abdul Hameed. (2010). A psychrotrophic *Arthrobacter* 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**



Confirmation of the availability of a strain for the purposes of cold preservation of a strain according to the Bacterial Culture Code

The following information is provided and serves to identify the Bacterial Culture of *Arthrobacter* sp. Nov. (MRLBA5) deposited to the DSMZ (Germany) and LMG (Belgium) for the purpose of cold preservation of a strain according to the Bacterial Culture Code

Strain identification: *Arthrobacter* sp. Nov. (MRLBA5) deposited to the DSMZ under the number DSM 23633

This strain is available in the publicly accessible archive of the DSMZ and is available for research purposes to all scientists worldwide. The strain is deposited to the DSMZ for the purpose of cold preservation of a strain according to the Bacterial Culture Code

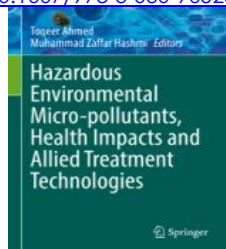
The strain has been deposited for custody to the DSMZ and is stored using one of the methods described in the Bacterial Culture Code

The deposition of this strain has also resulted in a 'Deposited' label and confirmed the identity of the strain and under the DSMZ number

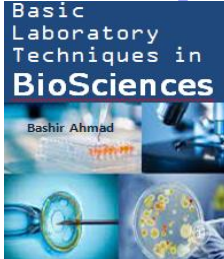
Dr. B. Ahmad  
2022

### 4C. Books / Chapters

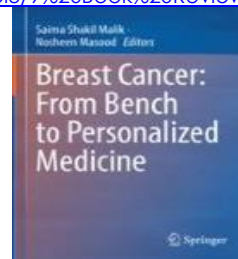
[https://link.springer.com/chapter/10.1007/978-3-030-96523-5\\_6](https://link.springer.com/chapter/10.1007/978-3-030-96523-5_6)



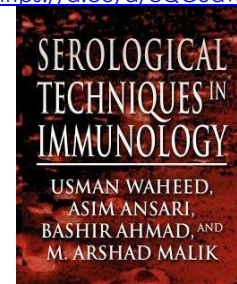
[https://link.springer.com/chapter/10.1007/978-981-19-0197-3\\_13](https://link.springer.com/chapter/10.1007/978-981-19-0197-3_13)



<http://www.iphbs.com/articles/vol3/9%20Book%20Review.pdf>



<https://a.co/d/cQCudwE>


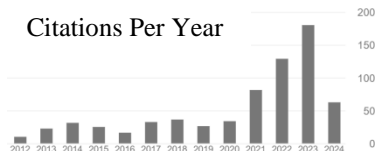


## 4D. RESEARCH PUBLICATIONS. 48

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>

 <div>Dr. Bashir Ahmad Associate Professor International Islamic University Islamabad</div> <div>Post Doctorate, University of Cambridge, UK (2014-2015) Industrial Microbiology Commercial Biotechnology Bio-entrepreneurship</div>		<div>AllSince 2019</div> <div>Citations715516 h-index1412 i10-index1914</div>		<div>Citations Per Year</div> 		<div>Impact Factor:</div> <div>100+</div>	
April 14, 2024							
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.	Hira Akram, Bushra Arshad Minahil Imtiaz, Waqas Ahmed, Muhammad Shafiq, Zaheer Ul-Haq, <b>Bashir Ahmad</b> , Sajjad Haider, Kamran Alam, Mudassir Iqbal	Journal of Molecular Structure	A Convergence of Synthesis and Antimicrobial Research: Imidazolium based Dicationic Ionic Liquids	Submitted 04.12.2024  MOLSTRUC -D-24-11626	2024	4.0  W	
2.	Aisha Tabassum, <b>Bashir Ahmad</b> , Aleem Munir, Muhammad Abbas	Green Processing and Synthesis (De Gruyter)	Physiochemical characterization, determination of antimicrobial activity, anti-neoplastic and cytotoxic bioactivities of various crude honey extracts	Accepted 09.05.2024	2024	1.7  W	
	Muhammad Imran Mashhood Ali , Shahid Aziz, <b>Bashir Ahmad</b> , 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: Report of a Rare Case from Pakistan	Vol 4(5)  doi <a href="https://doi.org/10.54289/JCRMH2400123">https://doi.org/10.54289/JCRMH2400123</a>	2024	1.2  W	
3.	Ayesha Aftab, <b>Bashir Ahmad</b> , 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	<a href="https://doi.org/10.1016/j.humgen.2023.201231">https://doi.org/10.1016/j.humgen.2023.201231</a>  <a href="#">Volume 38</a> No. 201231	2023	1.7  W	
4.	Aftab, Ayesha; <b>ahmad, bashir</b> ; Bashir, Shazia; Bashir, Muhammad; Ghani, Tayyaba; Rafique, Saima; Air University Gul, Asma; Shah, Attaullah,	Scientific Reports (Springer Nature)	Comparative study of microscale and macroscale technique for encapsulation of Calotropis gigantea extract in	<a href="https://doi.org/10.1038/s41598-023-39330-z">https://doi.org/10.1038/s41598-023-39330-z</a>	2023	4.9  W	

	Khan, Ranjha		metal-conjugated nanomatrices for invasive ductal carcinoma	Vol. 13, 13474		
5.	Gul Zaib, Abdul Shakoor, Mathan Mathan, <b>Bashir Ahmad</b> , Dildar Ali Solangi, Luo Huan, Xuming Hu and Hengmi Cui	Frontiers in Immunology, section Molecular Innate Immunity	Role of innate Immunity during viral infection: knowledge mapping of the growing impact of the published scientific literature productivity	Manuscript ID: 1183430 (13.07.2023)	2023	8.7
6.	Afsheen Mansoor; Faisal Moeen; Emaan Mansoor; Muhammad Talal Khan; Mazhar Mehmood; Syed Mujtaba Ul Hassan; Atta Ullah Shah; Uzma Asjad; <b>Bashir Ahmad</b> ; Paulo J. Palma	Journal of the Mechanical Behavior of Biomedical Materials	Synthesis of novel jasmine-based titanium oxide nanoparticles and their role in tooth enamel whitening procedure in dentistry	JMBBM-D-23-00571  18.04.2023	2023	4.042  W
7.	Hussan, Abdullah, <b>Bashir Ahmad</b> , Muhammad Riaz	Journal of Applied Biology & Biotechnology.	In-vitro Study of HIV-Derived Reverse Transcriptase Inhibition	<a href="https://doi.org/10.22541/au.168252905.51610593/v1">https://doi.org/10.22541/au.168252905.51610593/v1</a>	2023	1.06  Y
8.	Muhammad Faheem; Syed Ali Imran Bokhari; Muhammad Arshad Malik; <b>Bashir Ahmad</b> ; Muhammad Riaz; Nafeesa Zahid; Adil Hussain; Abdul Ghani; Khurshid Ahmad; Abrar Khan; Muhammad Talha Yasin; Hasnat Tariq; Hassam Rasheed; Ali Zain; Rizwan Ullah; Saddam Hussain; NageebUllah Jogezeai	Folia Microbiologica (Springer) 1874-9356	Production, purification and characterization of p-diphenol oxidase (PDO) enzyme from ligninolytic fungal isolate Schizophyllum commune MF-O5	<a href="https://link.springer.com/article/10.1007/s12223-023-01056-w">https://link.springer.com/article/10.1007/s12223-023-01056-w</a>	2023	2.69  W
9.	Arif ur Rehman, Aisha Tabassum, Nafeesa Zahid, Asif Jamal, Abdulrahim A. Sajini, Ayesha Aftab, <b>Bashir Ahmad</b>	Applied Nanoscience 2190-5517 Springer Science	<i>Artemisia vulgaris</i> reduced and stabilized Titanium Oxide Nanoparticles for antimicrobial and anti-fungal activity	<a href="https://doi.org/10.1007/s13204-023-02859-6">https://doi.org/10.1007/s13204-023-02859-6</a>	2023	4.2  W
10.	Adil Hussain, Muhammad Sajid, Daniel Potter, Hassam Rasheed, Mujtaba Hassan, Naeem Akhtar, <b>Bashir Ahmad</b> , 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 based on inductively coupled plasma atomic emission spectrophotometry (ICP-AES)	<a href="https://doi.org/10.1007/s12011-022-03469-z">10.1007/s12011-022-03469-z</a>	2022	4.08
11.	Kashaf Khalid, Tajamul Hussain, Zubia Jamil, Khalid Salm Alrokayan, <b>Bashir Ahmad</b> , Yasir Waheed*	Vaccines (MDPI)	Vaccinomics-aided development of a next-generation chimeric vaccine against the emerging	Vaccines 10, 1720  <a href="https://doi.org/10.3390/vaccines101">https://doi.org/10.3390/vaccines101</a>	2022	4.9  W

			threat: <i>Mycoplasma genitalium</i>	01720		
12.	Zubia Jamil, Shahida Parveen, Samreen Khalid, Mohammed Aljuaid, Memoona Shahzad, <b>Bashir Ahmad</b> , Yasir Waheed	Journal of Clinical Medicine: Gastroenterology & Hepatopancreat obiliary 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; an experience from the tertiary healthcare system	9;11(22):6654. doi: <a href="https://doi.org/10.3390/jcm11226654">10.3390/jcm11226654</a>	2022	4.96 W
13.	Muhammad Musaddiq Shah, Khurshid Ahmad, <b>Bashir Ahmad</b> , 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	<a href="https://doi.org/10.1007/s41204-022-00287-5">https://doi.org/10.1007/s41204-022-00287-5</a>	2022	5.38 W
14.	Muhammad Riaz, Uzma Sharafat, Nafeesa Zahid, Muhammad Ismail*, Jeongwon Park*, <b>Bashir Ahmad</b> , Neelum Rashid, Muhammad Fahim, Muhammad Imran, and Aisha Tabassum	ACS Omega (American Chemical Society) 2470-1343	Synthesis of Biogenic Silver Nanocatalyst and their Antibacterial and Organic Pollutants Reduction Ability	7 (17): 14723–14734 <a href="https://doi.org/10.1021/acsomega.1c07365">https://doi.org/10.1021/acsomega.1c07365</a>	2022	3.512 W
15.	Ali Nadeem, Hira Shahzad, <b>Bashir Ahmed*</b> , 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 <a href="https://doi.org/10.3389/fpls.2022.969316">https://doi.org/10.3389/fpls.2022.969316</a>	2022	6.62 W
16.	Rabia Hassan, Muhammad Asad Asghar, Mudassir Iqbal, Arshemah Qaisar, Uzma Habib, <b>Bashir Ahmad</b>	Heliyon (Cell Press: Science Direct) 2405-8440	A comparative evaluation of antibacterial activities of imidazolium-, pyridinium-, and phosphonium-based ionic liquids containing octyl side chains	08(05): 2022, e09533;  <a href="https://doi.org/10.1016/j.heliyon.2022.e09533">https://doi.org/10.1016/j.heliyon.2022.e09533</a>	2022	3.77 W
17.	Muhammad Musaddiq Shah, Wen Ren, Joseph Irudayaraj , Abdulrahim A Sajini, Muhammad Ishtiaq Aliand <b>Bashir Ahmad</b>	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: <a href="https://doi.org/10.3390/s21238050">https://doi.org/10.3390/s21238050</a>	2021	3.84 W
18.	Farhana Bibi; Asif Jamal; Mushtaq Ahamad;	Saudi Journal of Biological	Deciphering the role of technical bioprocess	28(12): 7595-7606	2021	4.05



	Muhammad Zafar; <b>Bashir Ahmad</b>	Sciences (Elsevier- King Saud University) 1319-562X	parameters for bioethanol production using microalgae	DOI <a href="https://doi.org/10.1016/j.sjbs.2021.10.011">https://doi.org/10.1016/j.sjbs.2021.10.011</a>		W
19.	Noureen Fatima, Asif Jamal, Zaixing Huang, Rabia Liaquat, <b>Bashir Ahmad</b> , 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 <a href="https://doi.org/10.3390/su13168969">https://doi.org/10.3390/su13168969</a>	2021	3.88  W
20.	Muhammad Riaz, Vishal Mutreja, Shweta Sareen, <b>Bashir Ahmad</b> , 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 <a href="https://doi.org/10.1038/s41598-021-82555-z">https://doi.org/10.1038/s41598-021-82555-z</a>	2021	4.379  W
21.	Ali Nadeem, <b>Bashir Ahmed</b> , 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: <a href="https://doi.org/10.5530/pj.2021.13.189">10.5530/pj.2021.13.189</a>	2021	1.085  W
22.	Muhamad Imran, <b>Bashir Ahmad</b> , 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 <a href="https://doi.org/10.1080/19371918.2021.2011524">https://doi.org/10.1080/19371918.2021.2011524</a>	January 31, 2022	1.128  W
23.	Nadeem A, <b>Ahmed B</b> , Shahzad H, Imran M and Craker LE	International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS)  ISSN: 2277-4998	<i>Artemisia rutifolia</i> Mewah extracts: phytochemical Profiling, gc-ms analyses, antibacterial and antioxidant Activity	11(5): 2397-2422 <a href="https://doi.org/10.31032/IJBPAS/2022/11.5.6089">https://doi.org/10.31032/IJBPAS/2022/11.5.6089</a>	2022,	1.8  Y
24.	Muhammad Talha Yasin, Yasir Ali, Khurshid Ahmad, Abdul Ghani, Kinza Amanat, Muhammad Mudassir Basheir, Muhammad Faheem, Saddam Hussain, <b>Bashir Ahmad</b> , 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: <a href="https://doi.org/10.1007/s00203-020-02133-1">10.1007/s00203-020-02133-1</a>	2021	2.729  W

25.	Muhammad Riaz, Muhammad Ismail, <b>Bashir Ahmad</b> , Nafeesa Zahid, Ghassan Jabbour, Muhammad Shafiq Khan, Vishal Mutreja, Shweta Sareen, Aftab Rafiq, Muhammad Faheem, Muhammad Musaddiq Shah, M. I. Khan, Syed Ali Imran Bukhari 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 <a href="https://doi.org/10.1515/gps-2020-0064">https://doi.org/10.1515/gps-2020-0064</a> vol. 9, no. 1; 693-705	2020	3.97  W
26.	Faheem, Muhammad; Khalid, Zafar Mahmood; Shabbir, Muhammad; <b>Ahmed, Bashir</b> ; Jomezai, 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: <a href="https://doi.org/10.1039/C9AY90192B">https://doi.org/10.1039/C9AY90192B</a>	2020	3.532  W
27.	Muhammad Ali Furqan, .Uzma Farooq, Rabia Liaquat, Zahid Qureshi, <b>Bashir Ahmad</b> , 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 Aciditohiobacillus ferrooxidans for Bioleaching Copper from Chalcocite Containing Sulfide Ore from Reko Diq Deposits in Pakistan	29: 2 1593-1600 DOI: <a href="https://doi.org/10.15244/pjoes/96257">https://doi.org/10.15244/pjoes/96257</a>	2020	1.87  W
28.	Faheem, Muhammad; Khalid, Zafar Mahmood; Shabbir, Muhammad; <b>Ahmed, Bashir</b> ; Jomezai, 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 <a href="https://doi.org/10.1039/C9AY01595G">https://doi.org/10.1039/C9AY01595G</a>	2019	2.07  W
29.	Yasir Waheed, Muzammil Hasan Najmi, Hafsa Aziz, Sumbul Khalid, Hasnain Waheed, Muhammad Imran, & <b>Bashir Ahmad</b>	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: <a href="https://doi.org/10.1615/CritReviewsEukaryotGeneExpr.2018025062">10.1615/CritReviewsEukaryotGeneExpr.2018025062</a>	2019	2.1  W
30.	Yasir Ali, <b>Bashir Ahmad</b> , 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: <a href="http://dx.doi.org/10.17582/journal.sja/2019/35.3.770.781">http://dx.doi.org/10.17582/journal.sja/2019/35.3.770.781</a>	2019	0.47  ISSN: P: 1016-4383 O: 2224-5383 UK  Y
31.	<b>Bashir Ahmad</b> , Aamer Ali Shah, Safia Ahmed, Abdul Hameed, Arif Mahmud, Fariha Hasan*	Applied Ecology and Environmental Research (Corvinus University of Budapest)	Production of alkaline phosphatase from a facultative psychrophilic <i>Pseudomonas</i> sp. MRLBA1 isolated from	16(1):807-818  DOI: <a href="http://dx.doi.org/10.15666/aer/1601_807818">http://dx.doi.org/10.15666/aer/1601_807818</a>	2018	0.711  W

		1785-0037, 1589-1623	Passu Glacier, Pakistan			
32.	Hajra Hanif, Muhammad Ishtiaq Ali, Awais Anjum, Naeem Ali, Asif Jamal, <b>Bashir Ahmad</b>	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: <a href="https://doi.org/10.4269/ajtmh.15-0040">10.4269/ajtmh.15-0040</a>	2015	2.44  W
33.	Farha Masood • P. Chen • Tariq Yasin, Fariha Hasan • <b>Bashir Ahmad</b> • 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: <a href="https://doi.org/10.1007/s10856-013-4946-x">10.1007/s10856-013-4946-x</a>	2013	3.896  W
34.	Usman Waheed, Khizar Hayat, <b>Bashir Ahmad</b> , 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: <a href="https://doi.org/10.1016/j.jcv.2012.12.012">https://doi.org/10.1016/j.jcv.2012.12.012</a>	2013	3.168  W
35.	Imran Javed, Muhammad Ishtiaq Ali, <b>Bashir Ahmed</b> , 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: <a href="https://doi.org/10.1080/08905436.2011.576559">https://doi.org/10.1080/08905436.2011.576559</a>	2011	1.513
36.	Pir Bux Ghumro*, Maryam Shafique, Muhammad Ishtiaq Ali, Imran Javed, <b>Bashir Ahmad</b> , Asif Jamal, Naeem Ali and Abdul Hameed	African Journal of Microbiology Research (Academic Journals) 996-0808	Isolation and screening of protease producing thermophilic <i>Bacillus</i> strains from different soil types in Pakistan	5: 5534-5539 DOI: <a href="https://doi.org/10.5897/AJMR10.297">10.5897/AJMR10.297</a>	2011	0.71
37.	Imran Javed, Safia Ahmed, Srikanth Manam, Mariam Riaz, <b>Bashir Ahmad</b> , M. Ishtiaq Ali, Abdul Hameed, and G. Jilani Chaudry	Journal of Food Protection (International Association for Food Protection) 1944-9097,	Production, Characterization, and Antimicrobial Activity of a Bacteriocin from Newly Isolated <i>Enterococcus faecium</i> IJ-31	73:1 44-52 DOI: <a href="https://doi.org/10.4315/0362-028x-73.1.44">10.4315/0362-028x-73.1.44</a>	2010	2.745  W

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38.	Javed, Imran, Safia Ahmed, Muhammad Ishtiaq Ali, <b>Bashir Ahmad</b> , 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: <a href="https://doi.org/10.4014/jmb.0904.04024">10.4014/jmb.0904.04024</a>	2010	3.277 W
39.	Naima Atiq, Safia Ahmed, M. Ishtiaq Ali, Saadia Andleeb, <b>Bashir Ahmad</b> and Geoffery Robson	African Journal of Microbiology Research (Academic Journals) 996-0808	Isolation and identification of polystyrene biodegrading bacteria from soil	4:1537-1541 <a href="https://academicjournals.org/journal/AJMR/article-full-text-pdf/428521113910.pdf">https://academicjournals.org/journal/AJMR/article-full-text-pdf/428521113910.pdf</a>	2010	0.71  W
<b>NATIONAL JOURNALS</b>						
40.	Muhammad Imran, <b>Bashir Ahmad</b>	Annals of PIMS 1815-2287 2075-7247	Methotrexate drug plug and play role in Human body	15 (4) <a href="https://doi.org/10.48036/apims.v15i4.262">https://doi.org/10.48036/apims.v15i4.262</a>	2019	Y
41.	Afsheen Mansoor, Emaan Mansoor, Aleeza Sana Muhammad Mohsin Javaid, <b>Bashir Ahmad</b> , Khadim Hussain	Pakistan Armed Forces Medical Journal <a href="http://www.pafmj.org">www.pafmj.org</a>	Clinical efficacy of Azadirachta indica based herbal mouthwash in treating the hypersensitivity of teeth	Manuscript ID: pafmj-43  12.09.2023	2023	Y
42.	Qasim Z, Waheed U, Shaukat A, Saba N, Shaukat A, Azam S, <b>Ahmad B</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
43.	Kashif Rauf, Tehmina Qamar, <b>Bashir Ahmad</b> , 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 <a href="https://www.journalrmmc.com/index.php/JRMC/article/view/1295">https://www.journalrmmc.com/index.php/JRMC/article/view/1295</a>	2019	HEC Recognized ISSN: 1683-3570,1683-3562 Y
44.	<b>Bashir Ahmad</b> , 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 L</i> in Diabetes Mellitus	13 (1): 91-95 <a href="https://www.pimhsonline.com/2019/jan_march/pdf/91.pdf">https://www.pimhsonline.com/2019/jan_march/pdf/91.pdf</a>	2019	HEC** recognised;  Y

45.	Yasir Ali, <b>Bashir Ahmad</b> , Khalid M. Alghamdi, Tahseen Kamal, Hani S.H. Mohammed Ali, Yasir Anwar, Adil Hussain and Naqeeb Ullah Jogezeai	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: <a href="https://doi.org/10.17957/IJAB/15.1141">10.17957/IJAB/15.1141</a>	2019	0.887 W
46.	Kiran Manzoor, Noshin Ilyas, Nazima Batool, <b>Bashir Ahmad</b> , 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. <a href="https://doi.org/10.17957/IJAB/15.1141">47058419</a>	2015	0.51 W
47.	Tanvir Ibrahim, Anwar Begum, Mazhar Ullah Memon, Shazia Adeel, Ghazala Parveen, Fazl I Wahid, Wasif, <b>Bashir Ahmad</b>	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
48.	Usman Waheed, Maryam Yousaf, <b>Bashir Ahmad</b> , 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
49.	Muhammad Arshad Usman Waheed, Asim Ansari, <b>Bashir Ahmad</b>	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
50.	Saadia andleeb, naima atiq, muhammad ishtiaq ali, raja razi-ul-hussnain, maryam shafique, <b>bashir ahmad</b> , 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 <a href="http://www.fs-publishers.org/.../17.pdf">http://www.fs-publishers.org/.../17.pdf</a>	2010	0.88 W
51.	muhammad ishtiaq ali, qaiser perveen, <b>bashir ahmad</b> , 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 <a href="https://www.fs-publishers.org/current_issue.php?file_download=published_papers/21301_.pdf">https://www.fs-publishers.org/current_issue.php?file_download=published_papers/21301_.pdf</a>	2009	0.88 W

HEC\*= Higher Education Commission, Pakistan, PMDC\*\*= Pakistan Medical and Dental Council

#### 4D1. ABSTRACTS/PRESENTATIONS...07

1. **B Ahmad**, Fariha Hasan, Aamer Shah, Safia Ahmed, Arif Mahmud. Thermolabile Alkaline phosphatase (ALP); a proficient thermolabile activity MRLBA1alp from psychrotolerant *Pseudomonas* sp.MRLBA1 from Passu Glacier in Pakistan. Bashir AHMAD, International Islamic University Islamabad Pakistan. Oral Presentation Canadian Society of Microbiologists, University of Waterloo, **CANADA**. June 20-23, **2017**.
2. **B Ahmad** , Fariha Hasan , Imran Javed , Ishtiaq Ali , Aamer Shah. Isolation and characterization of a Psychrotrophic *Arthrobacter stickyus* sp. nov.from Deep ice of Hopper Glacier of Pakistan. Poster Presentation Canadian Society of Microbiologists, University of Waterloo, **CANADA**. June 20-23, **2017**. Poster No. AEM 003.
3. A Rehman Khan, **B. Ahmad**, U Waheed, R Hafeez, A Wazeer, H Abbas Zaheer. *Evaluation of rapid screening tests for syphilis in Islamabad, Pakistan. Transfusion transmitted infections*. ISBT 2017 COP Congress Copenhagen, **DENMARK** (June 17–21, **2017**). Abstract No. ISBT-243.
4. **B Ahmad**, I Javed, M I Ali, AA Shah, A Hameed and F Hasan. *Isolation and characterization of a psychrophilic Arthrobacter* sp. MRLBA5 from the top surface soil of the hopper glacier of Pakistan. Presented as a Poster presentation at FEMS: 3<sup>rd</sup> Congress of European Microbiologists, GOTHENBURG, **SWEDEN** (June 28-July 02, **2009**). Oral Presentation.
5. I. Javed, M. I. Ali, **B. Ahmad**, A. Hameed and S. Ahmed. *Production and Characterization of Broad Spectrum Antimicrobial Enterocin P from Newly Isolated Enterococcus Faecium IJ-31*. Presented at 1st International Conference on Biotechnology, King Saud University, **Riyadh, Saudi Arabia** (16-18 Sep 2009).
6. M. I. Ali, I. Javed, **B. Ahmad**, Robson, D. Ghumro, P.B. and S. Ahmed. *Isolation and Characterization of Fungal Strains Capable of Degrading Poly Vinyl Chloride (Pvc) Plastics*. Oral presentation in 4th European Bioremediation conference **Greece** (3-6th Sep. 2008).
7. M. I. Ali, I. Javed, **B. Ahmad**, Robson, D. Ghumro, P.B. and S. Ahmed. *Scanning Electron Microscopic Analysis of PVC Degradation Potential of Newly Isolated Indigenous Fungal Strain Phanerochatea Chyrosporium PV-2*. Oral presentation in Micro Science 2008 Conference Oxford **United Kingdom** (23-26 June 2008).

#### 4D4. SEQUENCES SUBMITTED IN NCBI GENBANK...25 (Accessible Online at [www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov))

1. **Ahmad, B.**, Hasan, F., Javed, I., Ali, M, Ishtiaq., Andleeb, S., Shah, A, Ali., Mehmud, A., Ahmed, S. and Hameed, A. Bacterium clone Sa\_F\_BA1 16s rRNA gene, partial sequence. **Accession No. FJ415981**

2. **Ahmad, B.**, Hasan, F., Javed, I., Ali, M, Ishtiaq., Andleeb, S., Shah, A, Ali., Mehmud, A., Ahmed, S. and Hameed, A. Bacterium clone Sa\_F\_BA2 16s rRNA gene, partial sequence. **Accession No. FJ415982**
3. **Ahmad, B.**, Hasan, F., Javed, I., Ali, M, Ishtiaq., Atiq, N., Shah, A, Ali., Mehmud, A., Ahmed, S. and Hameed, A. Bacterium clone Sa\_F\_BA3 16s rRNA gene, partial sequence. **Accession No. FJ415983**
4. **Ahmad, B.**, Hasan, F., Ali, M, Ishtiaq., Javed, I., Andleeb, S., Shah, A, Ali., Mehmud, A., Ahmed, S. and Hameed, A. Bacterium clone Na\_F\_BA4 16s rRNA gene, partial sequence. **Accession No. FJ415984**
5. **Ahmad, B.**, Hasan, F., Javed, I., Ali, M, Ishtiaq., Atiq, N., Shah, A, Ali., Mehmud, A., Ahmed, S. and Hameed, A. Bacterium clone Na\_F\_BA5 16s rRNA gene, partial sequence. **Accession No. FJ415985**
6. **Ahmad, B.**, Hasan, F., Javed, I., Ali, M, Ishtiaq., Shah, A, Ali., Ahmed, S., and Hameed, A. 16S rRNA partial sequence analysis of Streptococcus sp. MRLBA6 isolated from ice obtained from Passu Glacier, Pakistan. **Accession No. GU581318**
7. Ali, M.I., Javed, I., **Ahmad, B.**, Robson, G. and Ahmed, S. Phylogenetic analysis of fungal isolate Aspergillus niger PV3 based on 5.8S and 28s rRNA and internal transcribed spacer. **Accession No. EU543987**
8. Ali, M.I., Javed, I., **Ahmad, B.**, Mehmood, S., Haider, Z., Robson, G. and Ahmed, S. Aspergillus sydowii strain PV4 internal transcribed spacer 1, partial identification of newly isolated fungal strain Aspergillus sydowii PV4 based on 5.8S and 28S rRNA. **Accession No. EU543988**
9. Ali, M.I., Javed, I., **Ahmad, B.**, Robson, G., Hameed, A. and Ahmed, S. 18S and 28S rRNA sequencing of fungal isolate Lentinus tigrinus PV2 based on 5.8S and 28s rRNA and internal transcribed spacer. **Accession No. EU543989**
10. Ali, M.I., Javed, I., **Ahmad, B.**, Robson, G., Hameed, A. and Ahmed, S. Molecular characterization of PVC degrading Phanerochaete chrysosporium PV1 strain based on 5.8S and 28s rRNA and internal transcribed spacer. **Accession No. EU543990**
11. Javed, I., Ali, M.I., **Ahmad, B.**, Ghumro, P.B., Hameed, A., Chaudry, G.J. and Ahmed, S. Enterococcus faecalis strain IJ-03 16S ribosomal RNA gene, partial sequence. **Accession No. EU547773**
12. Javed, I., **Ahmad, B.**, Ali, M.I., Chaudry, G.J. and Ahmed, S. Enterococcus faecium strain IJ-06 16S ribosomal RNA gene, partial sequence. **Accession No. EU547774**
13. Javed, I., Ali, M.I., **Ahmad, B.**, Ghumro, P.B., Hameed, A., Chaudry, G.J. and Ahmed, S.

- Enterococcus faecalis* strain IJ-07 16S ribosomal RNA gene, partial sequence.  
**Accession No. EU547775**
14. Javed, I., Ali, M.I., **Ahmad, B.**, Chaudry, G.J. and Ahmed, S. *Enterococcus faecalis* strain IJ-11 16S ribosomal RNA gene, partial sequence. **Accession No. EU547776**
  15. Javed, I., **Ahmad, B.**, Ali, M.I., Hameed, A., Chaudry, G.J. and Ahmed, S. *Enterococcus faecalis* strain IJ-12 16S ribosomal RNA gene, partial sequence. **Accession No. EU547777**
  16. Javed, I., Ali, M.I., **Ahmad, B.**, Ghumro, P.B., Chaudry, G.J., Hameed, A. and Ahmed, S. *Enterococcus faecium* strain IJ-21. 16S ribosomal RNA gene, partial sequence  
**Accession No. EU547778**
  17. Javed, I., Ali, M.I., **Ahmad, B.**, Raiz, M., Chaudry, G.J., Hameed, A. and Ahmed, S. *Enterococcus faecium* strain IJ-31 16S ribosomal RNA gene, partial sequence.  
Accession No. **EU547779**
  18. Javed, I., Ahmad, B., Ali, M.I., Hameed, A., Chaudry, G.J. and Ahmed, S. *Enterococcus faecalis* strain IJ-03 23S ribosomal RNA gene, partial sequence.  
**Accession No. EU547781**
  19. Javed, I., Ali, M.I., **Ahmad, B.**, Hameed, A., Chaudry, G.J. and Ahmed, S. *Enterococcus faecium* strain IJ-06 23S ribosomal RNA gene, partial sequence.  
**Accession No EU547782**
  20. Javed, I., **Ahmad, B.**, Ali, M.I., Hameed, A., Chaudry, G.J. and Ahmed, S. *Enterococcus faecalis* strain IJ-07 23S ribosomal RNA gene, partial sequence.  
**Accession No EU547783**
  21. Javed, I., Ali, M.I., Ahmad, B., Hameed, A., Chaudry, G.J. and Ahmed, S. *Enterococcus faecalis* strain IJ-11 23S ribosomal RNA gene, partial sequence.  
**Accession No. EU547784**
  22. Javed, I., **Ahmad, B.**, Ali, M.I., Hameed, A., Chaudry, G.J. and Ahmed, S. *Enterococcus faecalis* strain IJ-12 23S ribosomal RNA gene, partial sequence.  
**Accession No. EU547785**
  23. Javed, I., **Ahmad, B.**, Ali, M.I., Hameed, A., Chaudry, G.J. and Ahmed, S. *Enterococcus faecium* strain IJ-21 23S ribosomal RNA gene, partial sequence.  
**Accession No. EU547786**
  24. Javed, I., Ali, M.I., **Ahmad, B.**, Hameed, A., Chaudry, G.J. and Ahmed, S. *Enterococcus faecium* strain IJ-31 23S ribosomal RNA gene, partial sequence.  
**Accession No. EU547787**



25. Javed, I., **Ahmad, B.**, Ali, M. I., Hameed, A., Chaudry, G. J. and Ahmed, S. *Enterococcus faecium* strain ATCC 27273. 23S ribosomal RNA gene, partial sequence. **Accession No. EU547788**

## 5. Administrative Duties

	Responsibility	Status
1.	In charge of Academic Affairs (Department of Biological Sciences, IIUI)	<b>27.06.2022 to-date</b> Letter No. HRM-I/2022-IIU-623
2.	General Examiner (IIUI)	<b>2016 to-date</b>
3.	Faculty advisor to Human Rights Forum, IIUI Students	<b>23.09.2013 to date</b> Letter No. Estab-2(31)/2012- IRD-IIU-1136
4.	Career counselling of students in the transition of college and University	<b>01.09. 2015</b> to date volunteer
5.	In-charge Lawn Tennis Courts IIUI	<b>01.01.2012 – 31.12.2013</b>
6.	Admissions, Conduct of Exams, Curriculum update	<b>2010 to date</b>
7.	Member (Sub-committee, University's Corporate Profile); Strategic Plan	<b>30.06.2022</b> to date
8.	Faculty Focal person for the Central Management System of the University	<b>05.08.2022</b> to date
9.	Member Board of Studies Department of Biosciences, Capital University of Science and Technology, Islamabad	<b>01.01.2021</b> to date
10.	Look after charge as Chairman Department of Biological Sciences (In the absence of the Chairman, DBS)	Occasional

## 6. KNOWLEDGE SHARING AND PROFESSIONAL GROOMING

### 6A. Conferences, Workshops, Seminars, Courses/Training

#### 6A1. INTERNATIONAL

Sr. No.	Date	Title of event	Role	Country	Organizer/Fund ing
1.	June 03, 2021	How to write a research grant proposal	Speaker	Afghanistan (Webinar)	Spinghar Institute of Higher Education, Kabul, Afghanistan

2.	September 10-13, 2019	Increasing Biosecurity at Tissue Culture Collections	Participant of Course	Copenhagen, Denmark	CRDF Global, USA
3.	August 13-17, 2018.	Increasing Biosecurity at Tissue Culture Collections	Participant of Course	Amsterdam, Netherlands	CRDF Global, USA
4.	June 20-23, 2017	Fostering the advancement of Microbiology and the interchange of ideas	Speaker and poster presenter at the conference	Waterloo, ON, Canada	Canadian Society for Microbiology (CSM) and Pakistan Science Foundation, Pakistan (PSF)
5.	April 9-10, 2015	An introduction to Genome Variation Analysis using NGS	Course participant	Downing College, Cambridge, UK	The University of Cambridge Bioinformatics Training, Cambridge
6.	October 6-8, 2014	EMBL Introductory Course: Next-Generation Sequencing Applications and Data Analysis	Course participant	EMBL/EBI Cambridge, UK	European Molecular Biology Laboratory (EMBL)
7.	April 25-27, 2013	BIT's 6th Industrial Biotechnology 2013	Invited Speaker	Nanjing, China	World Congress of Industrial Biotechnology
8.	April 25-26th, 2018	International Conference on Innovation and Commercialization in Biotechnology	Speaker	Lahore, Pakistan	Pakistan Council for Scientific and Industrial Research (PCSIR), Lahore
9.	March 23-27, 2018	7th International and 16th National Conference on Plant Resources: Current Trends, Challenges and Solutions	Speaker	Peshawar, Pakistan	Islamia College Peshawar, University of Peshawar, Pakistan
10.	February 19-22, 2019	12 <sup>th</sup> International Biennial Conference Pakistan Society For Microbiology	Speaker	Abbottabad, Pakistan	Pakistan Society for Microbiology, Abbottabad University of Science and Technology,

					Havellian, Pakistan
11.	May 8-10, 2018	International Conference on Current Scenario of Research in Plant Sciences: Challenges and Opportunities 2018	Speaker	Sargodha, Pakistan	HEC, University of Sargodha, Sargodha
12.	April 07-09, 2011	International Workshop on Essential Need of Nano-Education in OIC Countries	Participant	COMSTECH, Islamabad	Preston University, Islamabad
13.	March 07-11, 2011	2 <sup>nd</sup> International Training Workshop on DNA Microarray for Gene Expression	Participant	Center of Excellence in Molecular Biology (CEMB), Lahore	CEMB
14.	November 04, 2014	Nanoparticle Safety Course	Participant	Occupational Health and Safety Service, University of Cambridge, UK	University of Cambridge, UK
15.	March 12, 2015	Chemical Safety Course	Participant	Occupational Health and Safety Service, University of Cambridge, UK	University of Cambridge, UK
16.	November 06-17, 2006	International Thematic Workshop on Industrial Biotechnology: Connecting Business. Academia	Participated	COMSTECH, Islamabad, NIBGE, Faisalabad	HEC, COMSTECH

#### 6A2. NATIONAL

17.		Learning Management System (LMS); Onsite to online	Master Trainer	International Islamic University, Islamabad	
18.	September 02, 2021	Workshop for teachers on Improving	MASTER TRAINERS	International Islamic University,	

		teaching and learning at HEIs.		Islamabad	
19.	March 30, 2016	Workshop on Applications of Industrial Biotechnology in Pakistan	Resource person	Capital University of Science and Technology, Islamabad	Capital University of Science and Technology, Islamabad
20.	March 07-09, 2005	8 <sup>th</sup> Biennial Conference of PSBMB on Emerging Trends in Biochemistry and Molecular Biology	Participant	University of Karachi, Karachi	PSBMB
21.	August 15, 2006	Workshop on Biochemical engineering and fermenter applications	Participant	Department of Microbiology, Quaid I Azam University, Islamabad	Bioengineering Switzerland
22.	April 10-12, 2006	1 <sup>st</sup> International Conference on Biotechnology and Bioinformatics	Participant	Baluchistan University of Information Technology and Management Sciences (BUILTMS)	HEC, PSF
23.	February 16-21, 2009	Workshop on Science Excel Camp: Where Theory and Practice Interact	Resource Person	Allama Iqbal Open University, Islamabad	EDLINKS, Directorate of Science and Technology, NWFP
24.	January 23-27, 2006	Workshop on Protein Molecular Modeling and Docking	Participant	Department of Biochemistry, Arid Agriculture University, Rwp	National Commission on Biotechnology (NCB) Pakistan
25.	October 4 – 6, 2017	1 <sup>st</sup> National Conference on "Bioactivity of Phytochemicals."	Speaker, poster presenter, Judge	Lahore, Pakistan	HEC, University of Lahore (UOL), Lahore.
26.	November 13-15, 2018	2 <sup>nd</sup> National Conference on	Speaker	Lahore, Pakistan	HEC, University of Lahore

		"Bioactivity of Phytochemicals."			(UOL), Lahore.
27.	November 14, 2018	Conference on Therapeutic Importance of Traditional Medicine	Participant	Lahore Pakistan	HEC, Virtual University, Lahore
28.	December 12-13, 2018	The Current Usage of Nanotherapeutics & Biodrugs	Participant	IIUI	HEC, IIUI
29.	November 04-06, 2015	Course on Professional Development Program for University Teachers	Participant	Department of Education, IIUI	IIUI
30.	December 14, 2017	5 <sup>th</sup> Conference on Biological and computational sciences	Session chair	Department of Biosciences, Capital University of Science and Technology	Capital University of Science and Technology, Islamabad
31.	December 13-15, 2016	Nanosciences: Education and Industrial Applications	Participant	COMSTECH, Islamabad	COMSTECH, Islamabad
32.	March 11, 2011	Training Workshop on Biosafety in Biomedical Research	Participant	CEMB, Lahore	CEMB, Biosafety Association of Pakistan (BSAP)
33.	April 16-17, 2012	National Conference on Nanotechnology- Its application in animal production and health	Participant	University of Veterinary and Animal Sciences, Lahore (UVAS)	HEC, UVAS
34.	December 17-20, 2008	9 <sup>th</sup> Biennial PSBMB Conference on Advances in Biochemistry and Molecular Biology	Participant	PMAS Arid Agriculture University, Rawalpindi	Pakistan Society for Biochemistry and Molecular Biology (PSBMB)
35.	June 23-25, 2010	Training workshop on "Analytical	Resource person	Nawaz Sharif Medical	HEC, UOG, Pakistan

		Laboratory Management."		College, University of Gujarat, Pakistan	National Accreditation Council (PNAC)
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## 6B. EVENTS ORGANIZED

### 6B1. INTERNATIONAL (speakers/resource persons)

1.	December 16, 2011	Seminar on Blood Safety and KAP surveys on blood donation	Organizer	FBAS, IIUI	SBTP
2.	November 13, 2017	Seminar on Neurogenetics and Neuromics (Dr. Houlden, Dr. Vincenzo Salpietro, UK)	Co-organizer	FBAS, IIUI	Department of Biological Sciences, IIUI
3.	October 25-27, 2018	1st International Conference On Advancements in Biotechnology & Biocomputing	Organizer	Islamabad, Pakistan	HEC, International Islamic University, Islamabad

### 6B2. NATIONAL (speakers/resource persons)

4.	December 04, 2018	Departmental poster competition	Co-organizer	Islamabad, Pakistan	International Islamic University, Islamabad
5.	October 16, 2017	Seminar on 'Research Paper Writing and Publishing (Dr Yasir Waheed)	Organizer	Lincoln Corner (IIUI)	Pakistan Biotechnology Students Society (PBSS), IIUI
6.	March 10-11, 2016	Seminar and activity on "Voluntary Blood Donation."	Organizer	Department of Bioinformatics & Biotechnology IIUI	Safe Blood Transfusion Programme (SBTP), Islamabad
7.	June 14, 2012	Series of events on World Blood Donor Day	Co-organizer	IIUI, Islamabad	SBTP (Pakistan), GIZ (Germany), IIUI
8.	July 23, 2019	Workshop on Patent and Research Proposal Writing (Dr	Organizer	Faculty of Basic and Applied	PBSS, IIUI

		Khurram Joya)		Sciences (FBAS), IIUI	
9.	October 12, 2017	Seminar on "Food safety and food security" (Dr Ahmed Bilal)	Organizer	FBAS, IIUI	PBSS, IIUI
10.	October 23, 2017	Hands-on Training "Basic Microbiological Techniques" (Dr Arif Nadeem Saqib)	Organizer	FBAS, IIUI	PBSS, IIUI
11.	February 27, 2018	Seminar on Cancer; Prevalence, Prevention and Treatment (Dr Aftab Iqbal)	Organizer	FBAS, IIUI	PBSS, IIUI
12.	March 07, 2019	Food safety and food security (Professor Salvator Massa, Italy)	Organizer	Lincoln Corner, IIUI	PBSS, IIUI
13.	February 15, 2016	Seminar on "Bioethics and Biosafety: Cones and Pros"	Organizer	FBAS, IIUI	IIUI
14.	April 20, 2017	"Apathy and Motivation –How To Bloom From Ashes"	Organizer	FBAS, IIU	Victim Rights and Rehabilitation Foundation Trust (VRRFT)
15.	May 16, 2018	"داستان عزم و ہمت" Motivation and resilience audacity	Organizer	FBAS, IIUI	Pakistan Biotechnology Students Society, IIUI
16.	December 28, 2016	Debate on Ethical Issues of Genome Editing Technology and Synthetic Biology	Organizer	COMSATS University Islamabad	Department of Biological Sciences, IIUI
17.	May 17, 2016	Discussion on Stem Cell Research	Organizer	COMSATS University Islamabad	Department of Biological Sciences Islamabad
18.	October 13, 2022	Future Trends in Biotechnology	Key Note Speaker	Khwaja Fareed University of Engineering	Institute of Biological Sciences, KFUEIT

				and Information Technology, Rahim Yar Khan	
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### 7. Editing / Reviewing / Assessments / Viva Voce Exams

These Assessments and Viva Voce Exams		No
Research Grants	Assessed Research Project / Grants by Higher Education Commission, Pakistan, Pakistan Science Foundation, and Health Research Institute, Pakistan	25
PhD Theses	Assessed PhD theses and examined through onsite/online viva voce exams	6
MS / MPhil theses	Assessed MS / MPhil theses and examined through onsite/online viva voce exam	66
<b>Reviewing</b>		
PhD / MS Theses	Reviewed PhD theses remotely	7
Research papers	Reviewed research papers of Q1 (international) and W/X/Y (National) budding journals	100+
<b>Editing</b>	Theses / Letters / Manuscripts	100+

### 8. RESEARCH COMMERCIALIZATION / STARTUPS / Outreach

1.	August 15, 2009	<b>I joined the job as “Deputy Director of Innovation and Commercialization”,</b> but quitted upon entering as an Assistant Professor at 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: <b>The EduTronics (SMC-PRIVATE) Limited</b> at IIUI	Business Incubation Center (BIC); IIUI Running effectively
3.	November 20, 2021 <i>Dormant after Corona Clearance</i>	Launched a Startup: <b>Clinical Express (PVT) Limited</b> at BIC-IIUI	Business Incubation Center (BIC); IIUI
4.	November 11-16, 2018	<b>CitroMetrics: Citrus-based products [Biogenic Cream, 7 Essential Oils]</b> Jump Start up Pakistan “organized by Up Lift Pakistan at Jinnah Convention Center, Islamabad	1 <sup>st</sup> prize in the Category of Biologicals



5.	2020	You Tube Channel <b>EduTronics</b> , running effectively	<a href="https://youtube.com/@Drbashirahmad">https://youtube.com/@Drbashirahmad</a>
6.	December 12, 2016	<b>Biotech Enterprises: Product; Biogas Production Plant</b> Research-Based Business Competition at CASE SPARK 2016	3 <sup>rd</sup> prize
7	March 01, 2023 onwards	<b>Biomerchant:</b> Essential oils, Sanitizer, Biogenic Anti-acne Cream, Anti-aging serum, Moringa (Leaves, seed, extract, coarse powder, ointment, serum)	Domestic scale finished form of these products is available from my lab
8	April 21, 2024	<b>Renewable Energy Solutions:</b> Biogas, Artificial Firewoods	Development and commercialization of Biomethane Development and commercialization of Artificial firewood logs

## 9. FELLOWSHIPS/EDUCATION

2014-2015 **Post Doctorate University of Cambridge, England**  
**Institute of Biotechnology, University of Cambridge, UK**

**Research:** Development of alkaline phosphatase coupled nanosensor for biomedical applications

**2005-2010** Ph.D. Quaid-i-Azam University, Islamabad, Pakistan/University of Waterloo, Canada  
**Specialization: Microbiology** *Dissertation:*  
Production and characterization of alkaline phosphatase from psychrophilic bacteria

**Related Courses:** Microbial Physiology and Biochemistry, Vitamins and Hormones, Immunology, Medical Microbiology, Advances in Molecular Genetics, Microbial Biotechnology, Biodegradation, Microbial Enzyme Technology and Applications of Biotechnology

**2002-2004** M.Sc. University of Arid Agriculture, Rawalpindi. Pakistan  
**Specialization: Biochemistry**

**Research:** Detection of Heavy Metal Ions in the Blood of Children of Rawalpindi / Islamabad and their Neurological Effects with Emphasis on Memory

**Related Courses:** Microbiology, Medical Microbiology, Nutrition, Clinical Microbiology, Biotechnology, Molecular Biology, Genetics, Enzymology and Genetic Engineering

1998-2000 **B.Sc, University of the Punjab, Lahore. Pakistan**  
Major: Botany, Zoology and Chemistry

## 10. MEMBERSHIPS

	Society	Status
1	Pakistan Biotechnology Students Society (PBSS)	Chairman/Lifetime Member 2017 to-date
2	Canadian Society for Microbiology <b>Membership ID: 13604 (Active 2022)</b>	Member 2016-03-21 to-date
3	American Society for Microbiology (ASM) <b>Membership ID: 680290 (Active 2022)</b>	Member 2007-2010, then Member 2016 to date
4	Applied Microbiology International (AMI) / SFAM <b>Membership No: 456763 (Active 2022)</b>	Member 2012 to-date
5	Pakistan Society for Microbiology (PSM)	Member 2008 to-date
6	Pakistan Society for Biochemistry and Molecular Biology (PSBMB)	Member 2005 to-date
7	National Academy of Young Scientists	Member 2015 to-date

## 11. JOURNALS

	Name of the Journal	Role	Since
1	Journal of Public Health and Biological Sciences <a href="http://www.jphbs.org">www.jphbs.org</a> ISSN Print & Online 23058668 & 2307 0625 France	Managing Editor	2012 to- 2014

## 12. AWARDS & ACHIEVEMENTS

Year	Scholarship/Fellowship/Financial Assistance	Funding body
2014	Post Doctoral Research Fellowship, for University of Cambridge, UK	HEC
2011	Startup research grant of 0.5 M PKR, Higher Education Commission of Pakistan.	HEC
2010	Interim Placement of Fresh PhDs (IPFP), Higher Education Commission of Pakistan	HEC
2007	Partial financial assistance, University of Waterloo, Canada	UW, Canada
2007	Scholarship from the Higher Education Commission of Pakistan for Research in Canada under the "International Research Support Initiative Programme"	HEC
2005	Scholarship for full financial support for PhD by the Higher Education Commission of Pakistan "PhD Indigenous Fellowships" Programme for <u>five years</u> .	HEC

2004 Partial financial support for bright rural students

UAAR

### 13. REFERENCES

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Professor Owen P. Ward  
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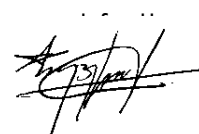
[opward@uwaterloo.ca](mailto:opward@uwaterloo.ca)

Communicates after prior appointment

#### Post Doctoral Advisor

Professor Elizabeth A. H. Hall  
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The University of Cambridge,

Please feel free to communicate for any information should you  
Yours truly



Bashir Ahmad  
**ANNEXURE-I**

Failures			
S. No	Title	Comments	Lesson Learnt
1.	<b>Research Projects</b>		
i).	Biodetergent formulation and commercialization	They were not funded because of incomplete documents submitted by the ORIC office to the HEC. Also, the industrial partner was uneducated and did not help enough.	Always cross-check the documents and processes with the responsible offices.
2.	<b>Startups</b>		
i).	Bioscience Enterprises	Office of Research Innovation and Commercialization (ORIC) was not ready	Started too early
ii)	Citrometics	Due to the already overburdened work, I developed a team of students in their last semester. Female students were too ambitious, but they had no choice but to come to University after their final semester	Do not rely on a team of short-term students

iii)	EduTronics	So far, this is a success story, but I am leaning towards administrative tasks at the University.	Even multi-tasking needs sequence and availability.
3.	<b>Patents</b>		
i)	Milk testing Biostrip	The reproducibility of the results had severe issues. Types of milk had various quantities of Alkaline phosphatase enzyme, so the signal remained weak.	The illuminator should have been added.