

## Curriculum vitae

**Mudassir Hassan, PhD**

**Lecturer**

Faculty of Natural Science and Technology

Baba Guru Nanak Univeristy

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**Objective:** My ambition is to devote my life inside the research laboratory and explore my unique ideas via efficiently utilizing my time and skills to fix them as valuable assets for humanity. Being a researcher, I am passionate about my work in Molecular Sciences in order to investigate the vast cellular universe and use my scientific approach towards the betterment of human beings. It is my belief that nothing is impossible in the world even if we cannot achieve the complete part of it, though we may get close to it.

### **Personal Information:**

<u>First Name/Surname:</u>	Mudassir Hassan
<u>Father Name:</u>	Muhammad Khalid
<u>Gander:</u>	Male
<u>National ID number:</u>	36104-4649667-3
<u>Passport number:</u>	MK6806671
<u>Nationality:</u>	Pakistani
<u>Date of Birth:</u>	October 1 <sup>st</sup> , 1995
<u>Religion:</u>	Islam
<u>Domicile:</u>	Bahawalpur (Pakistan)
<u>Marital status:</u>	Single
<u>Permanent address:</u>	Gulshion Iqbal Town near bye pass opposite to Hashim petroleum St.#2 H# 3 Mian Channu, Punjab Pakistan.
<u>Present address:</u>	Department of Zoology, Baba Guru Nanak University Nankana Sahib, 39100, Punjab, Pakistan.
<u>Contact number:</u>	+923406854190, +923039032327

## Educational Profile:

**Institution:** Government College University  
Faisalabad

**Degree: PhD (Doctor of Philosophy)**

**Major:** Zoology (Molecular Biology)

**Year:** 2020-2024

**CGPA: 3.9/4 Division: 1<sup>st</sup>**

**Title:** *Polyherbal formulation for diabetes and nanometrial based wound dresser for diabetic foot ulcer*

**Institution:** Government College University  
Faisalabad.

**Degree: M. Phil (Master of Philosophy)**

**Major:** Zoology (Molecular Biology)

**Year:** 2018-2020

**CGPA: 3.93/4 Division: 1<sup>st</sup>**

**Institution:** Government College University  
Faisalabad.

**Degree: MSc (Master of Science)**

**Major:** Zoology

**Year:** 2016-2018

**CGPA: 3.91/4**

**Division:** 1<sup>st</sup> (Silver Medalist)

**Institution:** Bahauddin Zakariya University  
Multan

**Degree: BSc (Bachelor of Science)**

**Major:** Zoology, Botany, Chemistry

**Year:** 2014-2016

**Marks: 64% Division: 1<sup>st</sup>**

**Institution:** Government College Mian  
Channu (BISE Multan)

**Degree: F.Sc (Intermediate of Science)**

**Major:** Pre-medical

**Year:** 2011-2013

**Marks: 73.72% Division: 1<sup>st</sup>**

**Institution:** Government High School  
128/15L (BISE Multan)

**Degree: Matric**

**Major:** Science

**Year:** 2009-2011

**Marks: 81.9% Division: 1<sup>st</sup>**

## Work Experience:

- 2 year work experience in Government College University Faialabad, as a **Research Assistant** in PHEC funded Project since December 2021 to December 2023.
- Currently working as a Lecturer in Department of Zoology, Baba Guru Nanak University, Nankana Sahib, since July 25, 2024.
- Examination Controller, Department of Zoology Since August 2024.

## Honors and awards:

- **“Certificate of Honor”**, for highest academic standing at the master level in 5th international conference on Applied Zoology by the applied zoological society of Pakistan, 2022.
- **• University Gold medal** for highest academic standing at the master level in 5<sup>th</sup> international conference on Applied Zoology by the applied zoological society of Pakistan, 2022.

- ● **Awardee of PAK-TURK** Project based International under Mevlana Exchange Program (2019-2020), Project No. (Ph-II-MG-1)/PAK TURK/R&D/HEC/2018 entitled by, “Targeting the energy metabolism with dietary nutrients for cancer treatment.” at Nigde Omer Halisdemir University, Nigde, Turkey.
- ● **“Certificate of Honor”**, for achieving the 2<sup>nd</sup> highest CGPA in Master of Science 16 years Department of Zoology, Government College University Faisalabad, Pakistan, 2018.
- ● **University Silver medal** for highest academic standing at the graduate level in Department of Zoology, Government College University Faisalabad, Pakistan, 2016-2018.

### **M.Phil. Students Co. Supervised:**

Sr. No.	Name	Registration No/Roll No	Session	Title	University	Status
1	Anees Chisti	23204024-018	2023-2025	Assessment of Anti-Inflammatory Potential of Rosemary Extract: In Vitro, In Silico, And In Vivo Studies	University of Sialkot	Complete
2	Hamna Zulfiqar	23010424-061	2023-2025	Investigation of Anti-Inflammatory Effects Of <i>Momordica Charantia</i> Extract: In Silico, In Vitro, In Vivo Approaches	University of Sialkot	Complete
3	Ramsha Khan	23010424-041	2023-2025	Gastroprotective and Healing Effects of Banana Leaf Extract on Aspirin-Induced Gastric Ulcers Based In Silico and In Vivo Studies	University of Sialkot	Complete
4	Fiza Batool	23010424-021	2023-2025	Evaluation of The Anti-Ulcer Properties of <i>Glycyrrhiza glabra</i> Extract: In Vitro, In Vivo, and In Silico Studies In Albino Mice	University of Sialkot	Complete
5	Muhammad Ramzan Dar	23010424-013	2023-2025	Assessment of The Anti-Inflammatory Properties of <i>Salix alba</i> Extract Through In Vitro and In Vivo Studies In Albino Mice	University of Sialkot	Complete
6	Rabia Javed	23204024-036	2023-2025	Evaluation of The Antioxidant and Anticancer Potential of <i>Linum Usitatissimum</i> Extract Against MCF-7 Breast Cancer Cells	University of Sialkot	Complete
7	Raheela Hanif	24020424-001	2024-2026	Phytochemical characterization and in vivo antibacterial potential of <i>Calotropis procera</i> leaf extract against multidrug-resistant <i>Staphylococcus aureus</i>	University of Sialkot	In Progress

8	Amna Shehzadi	24020424-005	2024-2026	In Vivo Evaluation of The Antifungal Activity of Momordica Charantia In Albino Mice	University of Sialkot	In Progress
9	Zunaira Bashir	24020424-010	2024-2026	Antifungal Potential of <i>Solanum Nigrum</i> Against <i>Candida albicans</i> : Insights From Computational And Experimental Studies In Wister Mice	University of Sialkot	In Progress
10	Shahnila Niamat	24020424-028	2024-2026	Antibacterial Efficacy of <i>Lantana Camara</i> Methanolic Extract Against Multidrug-Resistant <i>Pseudomonas Aeruginosa</i> In Burn Wound Models: Evidence From Albino Mice Studies	University of Sialkot	In Progress
11	Ayesha Ahsan	24020424-034	2024-2026	Antibiofilm and antibacterial potential of <i>Punica granatum</i> seed extract against uropathogenic <i>E. coli</i> : in silico and in vivo investigation	University of Sialkot	In Progress
12	Shaista Jabeen	ZOOL71F2-4S001	2024-2026	Evaluation of antioxidant and antidiabetic potential of <i>Trigonella foenum-gracium</i> and its secondary metabolites through in-silico and in-vitro studies.	University of Sargodha	In Progress
13	Sabeen Fatima	ZOOL71F2-4S010	2024-2026	Evaluation of anti-arthritis activity of <i>Trigonella foenum-graecum</i> and its secondary metabolites using in-silico and in-vitro approaches	University of Sargodha	In Progress

#### As External Examiner

Sr. No.	Student Name	Degree	Registration No/Roll No	Session	Title	University
1	Samina Dar	M.Phil.	USKT/2301021424-047	2023-2025	Association of level of calcium and Vitamin d on the onset of premenstrual Syndrome among women of district Sialkot.	University of Sialkot
2	Hina Ansar	M.Phil.	23010424-043	2023-2025	Assessment of knowledge and early symptoms of Breast Cancer among Women of District Sialkot.	University of Sialkot
3	Anam Ziarat	M.Phil.	23010424-055	2023-2025	The role of estrogen and progesterone in irregular menstrual cycle among obese women	University of Sialkot

## **Research Publications:**

**Published articles: 20   Submitted papers: 10   Impact factor > 70**

### **Published Articles:**

1. **Mudassir Hassan**, Azhar Rasul, Muhammad Ajmal Shah, Farhat Jabeen, Ayesha Sadiqa “Effect of PENN-DIABEX, a novel polyherbal formulation, in high fat diet streptozotocin-induced diabetic rats”, in “**Saudi Journal of Biological Science**” (IF: 4.4)
2. **Mudassir Hassan**, Lütfi Tutar, Duygu Sari-Ak, Azhar Rasul, Ejaz Basheer, Yusuf Tutar, Non-Genetic Heterogeneity and Immune Subtyping in Breast Cancer: Implications for Immunotherapy and Targeted Therapeutics, in “**Translational Oncology**” (IF: 4.5)
3. **Mudassir Hassan**, Azhar Rasul, Farhat Jabeen, Salma Sultana, Maria Manan, *Bombax ceiba* extract and its metabolites as  $\alpha$ -glucosidase inhibitors for diabetes, in “**Journal of King Saud University – Science**” (IF: 3.8)
4. **Mudassir Hassan**, Ijaz Hussain, Kafeel Ahmad, Saima Zafar, Adeel Khalid, Muhammad Haseeb, Nazim Hussain, Muhammad Adeel Ghafar, *Advancing Hepatocellular Carcinoma Therapy with Next-Generation Molecular and Immunotherapeutics*, in “**Journal of Hepatocellular Carcinoma**” (IF: 3.4)
5. Ijaz Hussain, Azhar Rasul, **Mudassir Hassan**, Ravi Rawat, Yusuf Tutar, *Lariciresinol: A Potent Natural Compound with Diverse Therapeutic and Health Benefits*, in “**Natural Product Research**” (IF: 1.6)
6. Muhammad Asif Zahoor, Muhammad Kashif Zahoor, Hina Hina Rizvi, Zeeshan Nawaz, Aftab Ahmed, Bushra Munir, **Mudassir Hassan** and Muhammad Zuhussnain, “Evaluation of Biochemical, Histopathological, Hematological and Genotoxic Effects of Some Indigenous Weed Plant Extracts in Albino Rats towards a Natural and Safe Alternative to Synthetic Insecticides in “**Frontiers in Veterinary Science**” (IF: 2.9)
7. Bisma Saleem, Ghulam Hussain, Azhar Rasul, Haseeb Anwar, **Mudassir Hassan**, “Antidiabetic Potential of Mushroom-Based Herbal Formulation in Streptozotocin-Induced Diabetic Rats” in “**Scientifica**” (IF: 2.8)
8. Sevki Adem, Azhar Rasul, Saba Riaz, Ayesha Sadiqa, Matloob Ahmad, Muhammad Shahid Nazir & **Mudassir Hassan** “Pyruvate kinase modulators as a therapy target: an updated patent review 2018-2023”, in “**Expert Opinion on Therapeutic Patents**” (IF: 6.4)
9. Saba Riaz, Azhar Rasul, Matloob Ahmad, Muhammad Asrar & **Mudassir Hassan**, “Pomegranate Peel Extract as 6-Phosphogluconate Dehydrogenase (6PGD) Inhibitor for Treatment of Breast Cancer” in “**Cell Biochemistry and Biophysics**” (IF: 2.0)

10. Muhammad Asif, M. Fakhar-e-Alam, **Mudassir Hassan**, Hassan Sardar, M. Zulqarnian, Li Li, Asma A. Alothman, Asma B. Alangary, Saikh Mohammad, “Synergistic response of PEG coated manganese dioxide nanoparticles conjugated with doxorubicin for breast cancer treatment and MRI application in **Arabian Journal of Chemistry (IF: 5.3)**
11. Xiaomeng Li, Azhar Rasul, Farzana Sharif, **Mudassir Hassan**, PIAS Family in Cancer: “From Basic Mechanisms to Clinical Applications”, in “**Frontiers in Oncology**” (IF:4.7)
12. Ayesha Sadiqa, Azhar Rasul, **Mudassir Hassan**, Salma Sultana, Farhat Jabeen, “Identification of Novel Natural Inhibitors to Human 3-Phosphoglycerate Dehydrogenase (PHGDH) for Cancer Treatment”, in “**Molecules**” (IF: 4.927)
13. Andleeb Zahira, Salma Sultana, Azhar Rasul, Tayyaba Sultana, **Mudassir Hassan**, “Hepatoprotective effects of almond shells against carbon tetrachloride induced liver injury in albino rats”, in “**Saudi Journal of Biological Science**” (IF: 4.4)
14. M Tahir, M Fakhar-e-Alam, Muhammad Asif, M Javaid Iqbal, Aoun Abbas, **Mudassir Hassan**, Javed Rehman, Qaisar Abbas Bhatti, Ghulam Mustafa, Asma A Alothman, Saikh Mohammad, “Investigation of gadolinium doped manganese nano spinel ferrites via magnetic hypothermia therapy effect towards MCF-7 breast cancer”, in “**Heliyon**” (IF: 3.776)
15. Saima Zafar, Asma Ashraf, Sumreen Hayat, Muhammad Hussnain Siddique, Muhammad Waseem, **Mudassir Hassan**, Hira Qaisar, Saima Muzammil, Isolation and Characterization of novel cadmium resistant *Escherichia fergusonii* ZSF-15 from industrial effluent for flocculant production and antioxidant enzyme activity, in “**Environmental Monitoring and Assessment**” (IF:3.1)
16. Muhammad Asif, Wajeeda Iqbal, Muhammad Fakhar-e-Alam\*, Zahid Hussain, Malik Saadullah, **Mudassir Hassan**, Javed Rehman, Kholood A Dahlous\*, Noora Al-Qahtani, Synthesis and Characterization of Chemically and Green-Synthesized Silver Oxide Particles for Evaluation of Antiviral and Anticancer Activity, in “**Pharmaceuticals**” (IF: 4.3)
17. Saima Zafar, Shehrish Fatima, Saima Muzammil, Farkanda Asad, **Mudassir Hassan**, Muhammad Waseem, Asma Ashraf, Bioremediation of Lead Contaminated Aquatic Environment using non- pathogenic strain *Klebsiella pneumoniae* PbS3A2 in *Labeo rohita*. in “**International journal of Environment sciences and technology**” (IF: 3.0).

18. Saima Zafar, Asma Ashraf, Farkhanda Asad, Saima Muzammil, Kafeel Ahmad, Salma Sultana, Yusuf Tutar, Sania Batool, **Mudassir Hassan\***, Exploring the bioremediation potential of non-pathogenic Pb-resistant strain *Klebsiella pneumoniae* in *Oreochromis niloticus* in “**Bioremediation Journal**” (IF: 2.4)
19. Bilal Ahmad, Farhat Jabeen, **Mudassir Hassan**, Salma Ikram, Maria Manan, Muhammad, Haseeb, Muhammad Kashif Zahoor, "Toxicity Assessment of Carbon Nanoparticler (CNPs) In Liver of Male Sprague-Dawley Rats" in “**Open Veterinary Journal**”(IF: 1.4)
20. 14. Saba Riaz, Ayesha Sadiqa, Rabia Zara, **Mudassir Hassan** , Ijaz Hussain, Sevki Adem, Ravi Rawat, Stem Cell Patentability: Legal Challenges, in “**Trends in Intellectual Property Research**”.

### **Publications under Process:**

- ✚ Muhammad Asif Khalil, Azhar Rasul\*, Ghazala Ghazala, **Mudassir Hassan\***, Sevki Adem, Cyperus esculentus Flower Extract and Its Phytochemicals (Procyanidin B7 and Luteolin 7-diglucuronide) as G6PD Inhibitors for Halting Cancer Metastasis.
- ✚ **Mudassir Hassan**, Azhar Rasul, Rawat, Sevki Adem, Identification of deoxycorticosterone glucoside from *Rhus coriaria* as a new inhibitor of  $\alpha$ -glucosidase.
- ✚ Saba Riaz, Azhar Rasul, **Mudassir Hassan**, Comparison of Extraction Techniques on Antimicrobial and Antioxidant Potential of the Pomegranate Peel Extracts.
- ✚ Maham Shabbir, **Mudassir Hassan**, Rabia Batool, Azhar Rasul, Identification of Bombalin & Metaresinol from *Bombax ceiba* Extract as a novel inhibitor of Pyruvate Kinase M2.
- ✚ Zohaib Ur Rehman Afridi, **Mudassir Hassan**, Hassan Younas, Kafeel Ahmad, Muhammad Adeel Ghafar, Yusuf Tutar, Ravi Rawat, Nazim Hussain, Improved degradation of recalcitrant drug “Carbamazepine” via facile preparation of Ag decorated TiO<sub>2</sub> Photocatalysts: Optimization and Kinetic Insights.
- ✚ Ayesha Sarfraz, Azhar Rasul, **Mudassir Hassan\***, Farzana Siddique, Muhammad Arshad, Ravi Rawat, Saba Riaz, Ayesha Sadiqa, Wedelolactone as pharmacological agent: focus on anticancer potential.
- ✚ Naiha Mehmood, Ijaz Hussain, Kafeel Ahmad, Muhammad Haseeb, **Mudassir Hassan\***, The Impact of Urban Air Pollution on Early-Onset Cancers: Unraveling Environmental Risk Factors

- ✚ Ijaz Hussain, **Mudassir Hassan**, Azhar Rasul, In-vitro assesment of antioxidant, antimicrobial and anti hepatic cancer (hepg-2 cells) potential of selected plants of cucurbitaceae family.

## **Journals:**

- **Managing Editor of Annals of Applied Sciences and Technology (AAST) 3106-0005 since 2025.**
- **Editorial board member of YM Journal of Biomedical Research since 2025**

## **Book Chapters:**

- **Target Identification Approaches in Drug Discovery** in “Drug Target Selection and Validation (ISBN: 978-3030958947).”
- **Cancer and carcinogens** in “Cancer Targeting Therapies Conventional and Advanced Perspectives (ISBN: 9781032427126)”.
- **Photothermal and Photodynamic Therapy Using Nanomaterials for Breast Cancer** in “Nano Theragnostics in Breast Cancer (ISBN: 978-981-95-3681-8)”.

## **Patents:**

- Patent filed to IPO Pakistan entitled, **“Polyherbal formulation for the treatment of diabetes mellitus and method of preparation thereof.”** (Patent Application No. 506/2023 Filing date 03/08/2023).
- Patent filed to IPO Pakistan entitled, **“Polyherbal nanomaterial based woud dressing for enhanced healing and infection control.”** (Patent Application No. 111/2025 Filing date 20/02/2025).

## **Projects Submitted:**

- **“Investigation of the Potential Use of Pasta Enriched with Different Flours in Diabetes Management Through Nutritional Composition, Antioxidant Activity and Metabolic Effects”** Submitted in TÜBİTAK 3501 – Career Development Program, Türkiye.
- **“Biotherapeutics and Biofertilizers: Earthworm-Based Solutions for Health and Horticulture”** Submitted in PARB Competitive Grants System.
- **“Development of Nanomaterial-based Herbal Products for Candida Infections (Candidiasis)”** Submitted to The Nagai Foundation, Tokyo.
- **“Development of sericin protein-based wound dresser for diabetic foot ulcer”** Submitted to The Nagai Foundation, Tokyo.

- **“Development of Nanospun wound dresser for diabetic foot ulcer”** Submitted in the Peridot PAK-FRENCH research grant.
- **“Biotherapeutics and Biofertilizers: Earthworm-Based Solutions for Health and Horticulture”** Submitted in NRPB Research Grant.

## **Certificates:**

### **Certificates as a reviewer:**

- **Certificate of Reviewer** in “**Journal of Molecular Histology**” for reviewing an article in 2025.
- **Certificate of Reviewer** in “**Cancer Management and Research**” for reviewing an article in 2025.
- **Certificate of Reviewer** in “**Cancer Management and Research**” for reviewing an article in 2025.
- **Certificate of Reviewer** in “**Journal of Hepatocellular Carcinoma**” for reviewing an article in 2024.
- **Certificate of Reviewer** in “**Food Science & Nutrition**” for reviewing an article in 2024.
- **Certificate of Reviewer** in “**Frontiers in Oncology**” for reviewing an article in 2024.
- **Certificate of Reviewer** in “**Journal of King Saud University - Science**” for reviewing an article in 2024.
- **Certificate of Reviewer** in “**Advances in Biomarker Sciences and Technology**” for reviewing an article in 2024.
- **Certificate of Reviewer** in “**Advances in Biomarker Sciences and Technology**” for reviewing an article in 2024.
- **Certificate of Reviewer** in “**Open Veterinary Journal**” for reviewing an article in 2024.
- **Certificate of Reviewer** in “**Open Veterinary Journal**” for reviewing an article in 2023.

### **Certificates as Presenter:**

- **Certificate of Oral Presenter** in **2<sup>nd</sup> International conference on Applied Science and Technology (ICAST-2024)** held at **Baba Guru Nanak University Nankana Sahib, Pakistan** on October 15 –17, 2025.
- **Certificate of Oral Presenter** in **8<sup>th</sup> International conference on Applied Zoology (ICAZ-2025)** held at the Institute of Zoology, **University of The Punjab (PU), Lahore, Pakistan** on October 13 –14, 2025.
- **Certificate of Oral Presenter** in “**2<sup>nd</sup> International Karatekin Science and Technology Conference (IKSTC2<sup>nd</sup>)** held at **Çankırı Karatekin University” Turkey** on December 21 – 22, 2023.

- **Certificate of Oral Presenter** in “2<sup>nd</sup> International Karatekin Science and Technology Conference (IKSTC2<sup>nd</sup>) held at Çankırı Karatekin University” Turkey on December 21 – 22, 2023.
- **Certificate of Oral Presenter** in 1<sup>st</sup> International conference on Applied Science and Technology (ICAST-2024) held at Baba Guru Nanak University Nankana Sahib, Pakistan on October 24 –25, 2024.
- **Certificate of Oral Presenter** in 6<sup>th</sup> International conference on Applied Zoology (ICAZ) held at Department of Zoology Government College University Faisalabad (GCUF), Pakistan on December 18 –19, 2023.
- **Certificate of Oral presenter** in 1<sup>st</sup> International Brain and Biomedicines Conference (IBBC-2023) held at Government College University Faisalabad, Pakistan on May 18 – 19, 2023.
- **Certificate of Oral presenter** in 5<sup>th</sup> International conference on Applied Zoology (ICAZ) held at Department of Zoology Khawaja Fareed University of Engineering & Information Technology (KFUEIT) Rahim Yar Khan, Pakistan on October 17 – 18, 2022.
- **Certificate of Oral Presenter** in 3<sup>rd</sup> International conference on Applied Zoology (ICAZ) held at Quaid-i-Azam university Islamabad, Pakistan on December 07 – 08, 2020.
- **Certificate of Poster Presenter** in 4<sup>th</sup> International conference on Applied Zoology (ICAZ) held at Quaid-i-Azam university Islamabad, Pakistan on November 24 – 25, 2021.
- **Certificate of First position** in Poster Presentation in 4<sup>th</sup> International conference on Applied Zoology (ICAZ) held at Quaid-i-Azam university Islamabad, Pakistan on November 24 – 25, 2021.

### **Certificates as Organizer:**

- **Certificate of Organizer** in 2<sup>nd</sup> International conference on Applied Science and Technology (ICAST-2024) held at Baba Guru Nanak University Nankana Sahib, Pakistan on October 15 –17, 2025.
- **Certificate of Organizer** in 8<sup>th</sup> International conference on Applied Zoology (ICAZ) held at the Institute of Zoology, University of The Punjab (PU), Lahore, Pakistan on October 13 –14, 2025.

- **Certificate of Organizer** in 1<sup>st</sup> International conference on Applied Science and Technology (ICAST-2024) held at **Baba Guru Nanak University Nankana Sahib, Pakistan** on October 24 – 25, 2024.
- **Certificate of Organizer** in 7<sup>th</sup> International conference on Applied Zoology (ICAZ) held at Department of Zoology **University of Sargodha (UOS), Pakistan** on October 22 –23, 2024.
- **Certificate of Organizer** in Two days Hands on Training Workshop on Texiermy held at Department of Zoology **Baba Guru Nanak University Nankana Sahib (BGNU), Pakistan** on April 28 –29, 2025.
- **Certificate of Organizer** in One Day international Awareness Seminar on World Cancer Day held at Department of Zoology **Baba Guru Nanak University Nankana Sahib (BGNU), Pakistan** on February 04, 2025.
- **Certificate of Organizer** in One Day Seminar on World Wildlife Day held at Department of Zoology **Baba Guru Nanak University Nankana Sahib (BGNU), Pakistan** on March 03, 2025.
- **Certificate of Organizer** in 2 Day International Symposium on Building Sustainable Future held at Department of Zoology **Baba Guru Nanak University Nankana Sahib (BGNU), Pakistan** on December 18 –19, 2025.
- **Certificate of Organizer** in 6<sup>th</sup> International conference on Applied Zoology (ICAZ) held at Department of Zoology **Government College University Faisalabad (GCUF), Pakistan** on December 18 –19, 2023.
- **Certificate of Moderator** in 6<sup>th</sup> International conference on Applied Zoology (ICAZ) held at Department of Zoology **Government College University Faisalabad (GCUF), Pakistan** on December 18 –19, 2023.
- **Certificate of Moderator** in 1<sup>st</sup> International Brain and Biomedicines Conference (IBBC-2023) held at **Government College University Faisalabad, Pakistan** on May 18 – 19, 2023.
- **Certificate of Moderator** in 3<sup>rd</sup> International conference on Applied Zoology (ICAZ) held at **Quaid-i-Azam university Islamabad, Pakistan** on December 07 – 08, 2020.
- **Certificate of Moderator** in 4<sup>th</sup> International conference on Applied Zoology (ICAZ) held at **Quaid-i-Azam university Islamabad, Pakistan** on November 24 – 25, 2021.
- **Certificate of Moderator** in 5<sup>th</sup> International conference on Applied Zoology (ICAZ) held at Department of Zoology **Khawaja Fareed University of Engineering & Information Technology (KFUEIT) Rahim Yar Khan, Pakistan** on October 17 – 18, 2022.

### **Certificates as Chair:**

- **Certificate of Chair** in **2<sup>nd</sup> International conference on Applied Science and Technology (ICAST-2024)** held at **Baba Guru Nanak University Nankana Sahib, Pakistan** on October 15 – 17, 2025.

### **Certificates as Participant:**

- **Certificate of Participant** in **6<sup>th</sup> International conference on Applied Zoology (ICAZ)** held at Department of Zoology **Government College University Faisalabad (GCUF), Pakistan** on December 18 –19, 2023.
- **Certificate of Participant** in in One Day Workshop on **Drafting and Filing of Patent Application** held at **Government College University Faisalabad (GCUF), Pakistan** on June 29, 2022.
- **Certificate of Participant** in in One Day Training Workshop on **Open Journal System (OJS)** software held at **Government College University Faisalabad (GCUF), Pakistan** on June 29, 2022.
- **Certificate of Participation** in **2<sup>nd</sup> international Conference on, “Recent Trends in Natural Science”** May 03-04, 2023.
- **Certificate of Participation** in **One day International Zoology Seminar** on “Aging: Long Term Hidden Cost of Infectious Diseases” at Department of Zoology, **Government College University Faisalabad, Pakistan.** August 6, 2019
- **Certificate of Participation** in, “Two days **6<sup>th</sup> Paleontology Seminar**” at Department of Zoology, **Government College University Faisalabad, Pakistan.** December 13 - 14, 2019.
- **Certificate of Participation** in, “Two days **4<sup>th</sup> International Paleontology Seminar**” at Department of Zoology, **Government College University Faisalabad.** 2017
- **Certificate of Participation** in **One day international webinar** on “Polyphenols as a therapeutic option for the treatment of diabetes” at **Molecules (MDPI),** January 14,2022.
- **Certificate of Participation** in **One day International Zoology Seminar** on “Aging: Long Term Hidden Cost of Infectious Diseases” at Department of Zoology, **Government College University Faisalabad, Pakistan.** August 6, 2019
- **Certificate of Participation** in, “Two days **6<sup>th</sup> Paleontology Seminar**” at Department of Zoology, **Government College University Faisalabad, Pakistan.** December 13 - 14, 2019.
- **Certificate of Participation** in, “Two days **4<sup>th</sup> International Paleontology Seminar**” at Department of Zoology, **Government College University Faisalabad.** 2017.

## Conferences Attended:

- 2<sup>nd</sup> International conference on Applied Science and Technology (ICAST-2024) held at **Baba Guru Nanak University** Nankana Sahib, Pakistan on October 15 –17, 2025.
- 8<sup>th</sup> International conference on Applied Zoology (ICAZ) held at the Institute of Zoology, **University of The Punjab (PU)**, Lahore, Pakistan on October 13 –14, 2025.
- 1<sup>st</sup> International conference on Applied Science and Technology (ICAST-2024) held at **Baba Guru Nanak University** Nankana Sahib, Pakistan on October 24 –25, 2024.
- 7<sup>th</sup> International conference on Applied Zoology (ICAZ) held at Department of Zoology **University of Sargodha (UOS), Pakistan** on October 22 –23, 2024.
- 2<sup>nd</sup> International Karatekin Science and Technology Conference (IKSTC2<sup>nd</sup>) held at **Çankırı Karatekin University” Turkey** on December 21 – 22, 2023.
- 6<sup>th</sup> International Conference on Applied Zoology (ICAZ-2023) held at Department of Zoology, **Government College University Faisalabad, Pakistan** on December 18 – 19, 2023.
- 1st International Brain and Biomedicines Conference (IBBC-2023) held at **Government College University Faisalabad, Pakistan** on May 18 – 19, 2023.
- International student conference on biotechnology and life sciences (INSCOBIO), **University of Airlangga, Malaysia** on June 22nd, 2021.
- 1<sup>st</sup> International conference on Applied Zoology (ICAZ) held at Department of Zoology **Government College University Faisalabad, Pakistan** on October 10 – 11, 2018.
- 2<sup>nd</sup> International conference on Applied Zoology (ICAZ) held at Department of Zoology **Government College University Faisalabad, Pakistan** on December 19 – 20, 2019.
- 3<sup>rd</sup> International conference on Applied Zoology (ICAZ) held at **Quaid-i-Azam university Islamabad, Pakistan** on December 07 – 08, 2020.
- 4<sup>th</sup> International conference on Applied Zoology (ICAZ) held at **Quaid-i-Azam university Islamabad, Pakistan** on November 24 – 25, 2021.
- 5<sup>th</sup> International conference on Applied Zoology (ICAZ) held at Department of Zoology **Khwaja Fared University of Engineering & Information Technology (KFUEIT) Rahim Yar Khan, Pakistan** on October 17 – 18, 2022.
- 37th International Pakistan Congress of Zoology held at Department of Zoology **Government College University Faisalabad, Pakistan** on February 28 - March 2, 2016.

## Technical Expertise:

- Antimicrobial Assays
- Antioxidant Assays
- Enzymatic Assays
- Migration Assays
- Primary and Secondary Cell culturing

- Cytotoxicity assays (MTT Assay)
- Animal handling
- In vivo model establishment
- SDS PAGE
- Preparation of competent cells
- Transformation
- Preparation of natural plant extracts by Soxhlet Apparatus
- Preparation of natural plant extracts by green method technology
- Enzyme Purification by Affinity-based method
- DNA/RNA/Protein Extraction
- Nanoparticles preparations
- Hydrogel preparations
- PCR

### **Computer Skills:**

- Word Processing (MS word)
- Spread Sheet (MS excel)
- In Silico Study and simulation
- R
- Presentation (MS power point)
- Statistical Package of social Science (SPSS)
- Coral Draw
- Chem Draw
- Endnote

### **Research areas of Interest:**

- Target Identification and diabetes treatment, identification of safer and effective alternatives for diabetes management.
- Hydrogels and herbal dresser preparations for cutaneous wound healing.
- Cancer cell metabolism: Identification of novel and selective targets for Cancer Therapy
- Identification of novel target compounds from natural products to be used in biomedical applications.

### **Language and degree of proficiency:**

	<u>Read</u>	<u>Write</u>	<u>Speak</u>
<b>English</b>	Excellent	Excellent	Excellent
<b>Urdu</b>	Excellent	Excellent	Excellent
<b>Punjabi</b>	Excellent	Excellent	Excellent

## **Self-assessment:**

Driven by a passion for advancing knowledge in the field of Zoology, I am a diligent researcher with a track record of academic excellence. My commitment to excellence is evident through the recognition received, including gold and silver medals, publications, and active participation in international conferences. I have demonstrated my versatility through active involvement in both national and international research projects, showcasing proficiency in various lab techniques. My ability to critically evaluate research is evident through my reviewing experience for prestigious journals. As a dynamic and dedicated professional, I am eager to contribute to the field of Zoology through continuous research, innovation, and collaboration.

## **References:**

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