

**Curriculum Vitae**  
**Dr. Ayesha Sadiqa**



**Email:** [ayeshasadiqa596@gmail.com](mailto:ayeshasadiqa596@gmail.com)

---

**Objective**

I would appreciate the opportunity to develop my inherent strengths and interests into a successful career and transform my personal goals into a reality and to secure a challenging position in progressive organization where I can utilize my experience and skills towards growth of organization. For this reason, I am in continuous persuasion of growth to seek the level of my personal satisfaction through my hard work.

**Personal information**

First name/ Surname: **Ayesha Sadiqa**

Father's name: Muhammad Jamil Sabir

C.N.I.C. Number: 33303-0882544-8

Date of Birth: 02-03-1996

Religion: Islam

Nationality: Pakistani

Gender: Female

Passport No: NF5465441

Permanent address: Opp. to Boys School Fsd Road Rajana Toba Tek Singh. Pakistan

Mobile Number +92 333-8737319

**Educational Profile**

**Institution: Government College University, Faisalabad, Punjab Pakistan**

**Degree: PhD.** (Doctor of Philosophy), Major: Molecular Biology

**Year: 2019-2023**

**Thesis Title:** Identification of Inhibitors to Human 3-Phosphoglycerate Dehydrogenase for the Treatment of Serine-dependent Cancers.

**Institution:** Govt. College University Faisalabad

**Degree:** M. Phil (Master in Philosophy), Major: Molecular Biology

**Major:** Zoology

**Year:** 2017-2019

**Thesis Title:** Elucidation of Cytotoxic Potential of Curcumol against Human Prostate Cancer (DU145) Cells.

**Institution:** Govt. College University Faisalabad

**Degree:** M.Sc (Master in Science)

**Major:** Zoology

**Year:** 2015-2017

**Institution:** Govt. Degree College (For Women) Rajana

**Degree:** B.Sc (Bachelor in Science)

**Major:** Zoology, Botany, and Geography

**Year:** 2013-2015

**Institution:** Govt. Girls Higher Secondary School Rajana

**Degree:** F.Sc

**Major:** Pre-medical Group

**Year:** 2011-2013

**Employment History**

- (January 27, 2025-May 27, 2025) visiting faculty, Department of Zoology, University of Education Lahore, Faisalabad Campus
- (August 19-2024- January 25, 2025) visiting faculty, Department of Zoology, University of Education Lahore, Faisalabad Campus
- (January 09-2024-June 2024) visiting faculty, Department of Zoology, University of Education Lahore, Faisalabad Campus
- (December 2021-May 2022) Research Associate, in Project No. 8381/Punjab/NRPU/R&D/HEC/2017
- (January 2019-December 2020) Research Assistant, in Project No. 8381/Punjab/NRPU/R&D/HEC/2017

**Distinction**

- CEO of SCINOSOL (PRIVATE) LIMITE (Scientific Innovative Solution) SECP Registration No. 0219630 and NTN: 8848414, Established on January 04, 2023.

## **Patent**

- Mudassir Hassan, Dr. Azhar Rasul\*, Dr. Muhammad Ajmal Shah, Prof. Dr. Farhat Jabeen and Ayesha Sadiqa. A novel polyherbal formulation (PENN-DIABEX) for the treatment of diabetes mellitus, Filing date: 03/08/2023 Patent Number: 506/2023.
- Azhar Rasul, Mudassir Hassan, Ayesha Sadiqa and Saba Riaz. Polyherbal Nanomaterial-Based Wound Dressing for Enhanced Healing and Infection Control, Filling date: 20/02/2025 Patent Number 111/2025.

## **Certificates**

- ✚ **Certificate of Participation** in “International Seminar on Recent Trends and Techniques to Evaluate Aquatic Toxicity” Department of Zoology, Government College University Faisalabad, December 21, 2016
- ✚ **Certificate of Participation** in “Two days 4<sup>th</sup> National Paleontology Seminar” Department of Zoology, Government College University Faisalabad, December 13, 2017
- ✚ **Certificate of Participation** in “International Seminar on Challenges and Opportunities for Aquaculture and Animal Feed Industry” Department of Zoology, Government College University Faisalabad, December 20, 2017
- ✚ **Certificate of Participation** in “1<sup>st</sup> International Conference on Applied Zoology (ICAZ-2018)” Department of Zoology, Government College University Faisalabad, October 10-11, 2018
- ✚ **Certificate of Oral/Poster Presenter** in “2<sup>nd</sup> International Symposium on Pharmaceutical Sciences” Department of Pharmaceutical Sciences, Government College University Faisalabad, January 30, 2019
- ✚ **Certificate of Participation** in “Two days 6<sup>th</sup> National Paleontology Seminar” Department of Zoology, Government College University Faisalabad, December 13-14, 2019
- ✚ **Certificate of Participation** in “2<sup>nd</sup> International Conference on Applied Zoology (ICAZ-2019)” Department of Zoology, Government College University Faisalabad, December 19-20, 2019
- ✚ **Certificate as Moderator** in “3<sup>rd</sup> International Conference on Applied Zoology (ICAZ-2020)” Department of Zoology, Government College University Faisalabad, December 7-8, 2020
- ✚ **Certificate as Moderator** in “4<sup>th</sup> International Conference on Applied Zoology (ICAZ-2021)” Quaid-i-Azam University, Islamabad, November 24-25, 2021
- ✚ **Certificate as Moderator** in “5<sup>th</sup> International Conference on Applied Zoology (ICAZ-2022)” Khwaja Fareed University of Engineering and Information Technology, October 17-18, 2022

-  **Certificate as Participant** in “5<sup>th</sup> International Conference on Applied Zoology (ICAZ-2022)” Khwaja Fareed University of Engineering and Information Technology, October 17-18, 2022
-  **Certificate of Participation** in “All Punjab Universities Innovation EXPO 2022” Punjab Higher Education Commission Lahore, November 15, 2022
-  **Certificate of Participation** in “1<sup>st</sup> Pakistan Young Physiologists Symposium (PYPS-2023)” Department of Physiology, Government College University Faisalabad, January 12-13, 2023

### **Conferences Attended**

- 1<sup>st</sup> International Conference on Applied Zoology (ICAZ), Department of Zoology, Government College University Faisalabad, Punjab, Pakistan. October 10-11, 2018
- 2<sup>nd</sup> International Conference on Applied Zoology (ICAZ-2019), Department of Zoology, Government College University Faisalabad, Punjab, Pakistan. December 19-20, 2019.
- 3<sup>rd</sup> International Conference on Applied Zoology (ICAZ-2020), Quaid-i-Azam University Islamabad Pakistan. December 07-08, 2020.
- 4<sup>th</sup> International Conference on Applied Zoology (ICAZ-2021)” Quaid-i-Azam University, Islamabad, November 24-25, 2021
- 5<sup>th</sup> International Conference on Applied Zoology (ICAZ-2022)” Khwaja Fareed University of Engineering and Information Technology, October 17-18, 2022
- 6<sup>th</sup> International Conference on Applied Zoology (ICAZ-2023)” Government College University, Faisalabad, December 18-19, 2023.
- 7<sup>th</sup> International Conference on Applied Zoology (ICAZ-2023)” University of Sargodha, October 22-23, 2024.
- **Technical Expertise**
  - Cell Culture Techniques
  - Cytotoxic Assays (MTT Assay)
  - SDS PAGE
  - Western Blotting
  - Competent Cell Preparation
  - Transformation
  - Gel Electrophoresis

- Recombinant protein expression and purification
- Extract Preparation by Soxhlet Apparatus

### **List of Published Papers**

**Total Publications: 07    Total Impact Factor: ~27    Book Chapters Published: 06**

1. Sevki Adem, Azhar Rasul, Saba Riaz, **Ayesha Sadiqa**, Matloob Ahmad, Muhammad Shahid Nazir, and Mudassir Hassan. Pyruvate kinase modulators as a therapy target: an updated patent review 2018–2023, 2024, Expert Opinion on Therapeutic Patents; IF: 6.4.
2. Mudassir Hassan, Azhar Rasul, Muhammad Ajmal Shah, Farhat Jabeen, and **Ayesha Sadiqa**. Effect of PENN-DIABEX, A Novel Polyherbal Formulation, in High Fat Diet Streptozotocin-Induced Diabetic Rats, 2023, Saudi Journal of Biological Sciences; IF: 4.4
3. Muhammad Mateen Tahir, Azhar Rasul, Ammara Riaz, Rabia Batool, Bushra Nageen, Muhammad Adnan, Iqra Sarfraz, Muhammad Adnan, **Ayesha Sadiqa**, Zeliha Selamoglu. Ficus benghalensis: A plant with potential pharmacological activities: from tradition to pharmacy. 2023, Tropical Journal of Pharmaceutical Research. IF: 0.5
4. **Ayesha Sadiqa**, Azhar Rasul, Mudassir Hassan, Salma Sultana, and Farhat Jabeen, Identification of novel natural Inhibitors to human 3-phosphoglycerate dehydrogenase (PHGDH) for cancer treatment, 2022, Molecules; IF: 4.927
5. Ayesha Sarfraz, Maria Javeed, Muhammad Ajmal Shah, Ghulam Hussain, Nusrat Shafiq, Iqra Sarfraz, Ammara Riaz, **Ayesha Sadiqa**, Rabia Zara, Saba Zafar, Lubna Kanwal, Satya Sarker, Azhar Rasul\*, Biochanin A: A Novel Bioactive Multifunctional Compound from Nature. **2020**, doi: 10.1016/j.scitotenv.2020.137907, Science of the Total Environment. IF: 6.551.
6. Wei Wei, Azhar Rasul, **Ayesha Sadiqa**, Iqra Sarfraz, Ghulam Hussain, Bushra Nageen, Xintong Liu, Nobumoto Watanabe, Zeliha Selamoglu, Muhammad Ali, Xiaomeng Li and Jiang Li, Curcumol: From plant roots to cancer roots. International Journal of Biological Sciences (Impact Factor: 4.057), 2019, 15(8) 1600-1609. doi: 10.7150/ijbs.34716.
7. 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”**

### **List of Publications Under Process:**

1. Muhammad Asif Khalil, Azhar Rasul\*, Muhammad Usman Qamar, Ghazala Ghazala, Mudassir Hassan\*, Iqra Sarfraz, **Ayesha Sadiqa**, KOTB A. Attia, Seung Hwan Yang, Arif

Ahmed Mohammed, Sevki Adem, *Cyperus esculentus* Flower Extract and Its Phytochemicals (Procyanidin B7 and Luteolin 7-diglucuronide) as G6PD Inhibitors for Halting Cancer Metastasis.

2. Saba Riaz<sup>1</sup>, Azhar Rasul, Malik Saadullah, Mudassir Hassan, Rimsha Basit, **Ayesha Sadiqa**, Mu-hammad Asrar, Sevki Adem, Comparison of Extraction Techniques on Antimicrobial and Antioxidant Potential of the Pomegranate Peel Extracts.

### **Book Chapters**

1. **Ayesha Sadiqa**, Saba Riaz, Azhar Rasul, Rabia Zara, Khudeja Afroz, Zunaira Saeed, Gul Bushra Khan, Khatereh Khorsandi, Muhammad Yasir Ali, **2023**, Photodynamic Therapies for Cancer Treatment published by CRC Press.
2. Azhar Rasul, Ammara Riaz, Iqra Sarfraz, Samreen Gul Khan, Ghulam Hussain, Rabia Zara, **Ayesha Sadiqa**, Gul Bushra, Saba Riaz, Muhammad Javid Iqbal, Mudassir Hassan & Khatereh Khorsandi. **2022**, Target Identification Approaches in Drug Discovery Published by Springer Nature
3. Ammara Riaz, Rabia Zara, Gul Bushra, Nazia Kanwal, **Ayesha Sadiqa**, Farzana Shreef, Iqra Sarfraz, Muhammad Ajmal Shah, Ilknur Ucak, Shazia Anwar Bukhari, Azhar Rasul, **2022**, Cancer metabolism regulation by phytonutrients Published by Academic Press in The Role of Phytonutrients in Metabolic Disorders.
4. Ammara Riaz, Azhar Rasul, Iqra Sarfraz, Javaria Nawaz, **Ayesha Sadiqa**, Rabia Zara, Samreen Gul Khan, Zeliha Selamoglu (**2020**) "Chemical Biology Toolsets for Drug Discovery and Target Identification" submitted to the book under the working title "Cheminformatics and its Applications" by Publisher Intech Open.
5. **Ayesha Sadiqa**, Azhar Rasul, Ghulam Hussain, Muhammad Ajmal Shah, Iqra Sarfraz, Ammara Riaz, Ayesha Sarfraz, Saba Zafar, Zeliha Selamoglu, (**2020**) Nutrition and Nutraceuticals for Brain Cancer, Bioactive Nutraceuticals for Brain Disorders, Bentham Science Publishers
6. Iqra Sarfraz, Azhar Rasul, Ammara Riaz, Ilknur Ucak, Muhammad Kashif Zahoor, Ghulam Hussain, Javaria Nawaz, **Ayesha Sadiqa**, Şevki Adem; A Centum of Valuable Plant Bioactives "Biochanin A and Biochanin B", published by "Elesvier"

### **Computer Skills**

- Word Processing (MS Word)

- Spreadsheet (MS Excel)
- Presentation (MS PowerPoint)
- Statistical package for social sciences (SPSS)
- EndNote

### **Research Areas of Interest**

-  Cancer cell metabolism: novel and selective target for cancer therapy
-  Identification of potent and selective non-toxic compounds from natural products for biomedical applications

### **Languages and Degree of Proficiency**

|                | <b>Read</b> | <b>Write</b> | <b>Speak</b> |
|----------------|-------------|--------------|--------------|
| <b>English</b> | Excellent   | Excellent    | Excellent    |
| <b>Urdu</b>    | Excellent   | Excellent    | Excellent    |
| <b>Punjabi</b> | Good        | Good         | Excellent    |

### **Self-assessment**

I believe in becoming the best version of myself through my hard work. I have positive and kind attitude towards people and have ability to reshape myself according to circumstances. My strongest point is having determined vision constantly looking for new opportunities. I have ability to solve problems in an effective/creative manner in a challenging position. I want to build a long-term career as a researcher in my field by investing the best of my knowledge & educational qualifications.

### **References**

Name: Prof. Dr. Azhar Rasul

Position: Professor/ Chairman

Department: Zoology

Address: Baba Guru Nanak University, Nankana Sahib

Phone No: +92 3218409546, Email: [drazharrasul@gmail.com](mailto:drazharrasul@gmail.com)