

AMMARA BAKHT

Research & Innovation Professional | Biotechnology Researcher

03325846770, ammarabakht12@gmail.com, Hassan Abdal.

RESEARCH PROFILE

Research and innovation professional with multidisciplinary experience spanning biotechnology research, academic coordination, scientific communication, project leadership, and higher education. Proven ability to organize national and international scientific events, lead cross-functional teams, coordinate academic initiatives, and communicate complex scientific concepts to diverse audiences. Experienced in research documentation, stakeholder engagement, technical writing, and institutional collaboration. Passionate about advancing research excellence, innovation, and organizational development through strategic planning, effective leadership, and evidence-based problem solving.

PROFESSIONAL EXPERTISE

Research & Innovation

- Research Coordination
- Scientific Communication
- Research Documentation

Project Management

- Project Planning
- Event Coordination
- Stakeholder Engagement

Leadership

- Team Leadership
- Cross-functional Collaboration
- Strategic Planning
- Stakeholder Communication

Communication

- Public Speaking
- Scientific Presentation
- Technical Writing
- Documentation

PROFESSIONAL EXPERIENCE

• **Research Project Team Lead** **Business Incubation Centre, IIU, Islamabad**

June 2025 - Sept 2025

- Coordinated multidisciplinary consultancy projects.
- Led team communication and task allocation.
- Prepared technical reports and documentation.
- Facilitated collaboration between research teams.
- Supported project planning and execution.

• **Research Assistant IIUI.**

April 2024 - 2025

- Conducted structured literature reviews to support neuroscience and biotechnology research.
- Assisted in qualitative and quantitative data handling, organization, and validation.
- Maintained research records, reports, and academic documentation for seminars and projects.

• **Academic Event Organizer, IIUI.**

September 2023 - 2025

- Planned, organized, and hosted national and international scientific seminars, workshops, webinars, and symposiums.
- Coordinated communication with keynote speakers, researchers, faculty members, and participants to ensure successful event delivery.
- Managed event planning, scheduling, logistics, registrations, and post-event documentation.
- Led organizing teams and delegated responsibilities to ensure efficient execution of academic events.

- Promoted interdisciplinary collaboration by facilitating scientific discussions and knowledge-sharing initiatives.
- Contributed to strengthening the department's research culture through academic outreach and engagement activities.

• **Selected Events**

- 5-Day International Workshop on Molecular Informatics: Transforming Biotechnology with Computational Techniques
- International Webinar on Role of Hox Gene in Glioblastoma
- National Symposium on Future Trends and Innovation in Biotechnology for Economic Development
- Seminar on Biopreneurs: The Molecular Millionaires
- Seminar on Mix of Mind and Machine: Unleashing the Power of AI in Medicine

• **Research & Policy Content Writer**

August 2020 - 2025 (Remote)

- Research and write evidence-based articles on political, social, and public policy issues.
- Analyze national and international developments using credible academic and policy sources.
- Translate complex topics into clear, engaging content for diverse audiences.
- Strengthened analytical thinking, technical writing, and research communication through consistent publication of policy-focused content.

• **Subject Specialist (Biology) | Environmental Coordinator | Federal Board E-Examiner**

March 2022 - September 2023

Margallah Educational Institutions (APSACS Rwp) & Roots Millenium International Wah Cantt Branch.

- Developed and delivered Biology curriculum aligned with institutional and Federal Board standards.
- Coordinated the institution's Zero-Waste Initiative by planning awareness campaigns and training students and staff.
- Managed cross-departmental activities supporting sustainability and institutional development.
- Served as a Federal Board Biology E-Examiner, ensuring fair, accurate, and standardized assessment processes.
- Collaborated with faculty members to enhance academic quality and student engagement.
- Organized educational and extracurricular activities that promoted leadership, teamwork, and communication.

EDUCATION

• **MS BIOTECHNOLOGY - (IIUI).**

Cumulative GPA - 3.95/4.00 (84%)

Session SEP 2023- SEP 2025

• **BS (HONORS) BIOTECHNOLOGY - (IIUI).**

Cumulative GPA - 3.93/4.00 (84%)

Session SEP 2013- SEP2017

RESEARCH PROJECTS

MS Research : Networking Analysis of Mirror Neuron Dysfunction and miRNA for Early Detection of Autism Spectrum Disorder in Pakistani Children.

BS Dissertation: Mirror Neurons: A Fire to Inspire.

CERTIFICATIONS AND TRAININGS

Scientific Training

Python Essentials (Cisco)
Basics of R
CRISPR-Cas9
RT-PCR
Bioentrepreneurship

Teaching Training

BTEC Advanced
BTEC Beginner
Makerspace

Professional Development

"Participated in multiple seminars on pharmacogenomics, bioethics, science journalism, personalized medicine, sustainable biotechnology and emerging biomedical technologies."

TECHNICAL SKILLS

Bioinformatics

- miRTarBase
- miRBase
- DIANA-TarBase
- Ensembl
- DAVID
- mirWalk
- Allen Brain Atlas

Computational Tools

- RNAhybrid
- Tissue Expression Databases
- miRNA Analysis
- Gene Annotation
- Enrichr
- UCSC
- STRING

Programming

- Python
- R

CONFERENCE PRESENTATION

Presented original MS research at the **11th Annual Neuroscience Conference**, NUST (2025), as a Young Scientist.

AWARDS

Extra-Curricular

- Best organizer of Solid waste Management as an in charge- APSACS Hamza - Jan 2023
- Best class decor- APSACS Hamza-2022
- 1st position - T-shirt Designing Cultural activities 2017 IIUI.
- 2nd position - T-shirt Designing STE'15 IIUI.
- 1st position - Quiz competition Chicken Secrets Revealed IIUI.
- 1st position - Calligraphy STE'14 IIUI.
- 1st position - Calligraphy Sir Syed College Wah Cantt.
- Writing best Urdu Essays - Presentation Convent High School, Wah Cantt.
- Making most informative and innovative charts - Presentation Convent High School Wah Cantt

REFERENCE

References available on request.