

Ayesha Amin

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WORK EXPERIENCE

Junior Clinical Scientist Islamabad Clinic Serving Infertile Couples (ICSI), Pvt. Ltd, Islamabad, Pakistan	February 2022 – July 2023
<ul style="list-style-type: none">• Skillfully perform semen analysis and make sperm preparation for IUI, 24-hour survival test, IVF/ICSI, and sperm cryopreservation• Make culture media preparations for Oocyte Pickup (OPU), ICSI/ IVF, Frozen Embryo Replacement (FER)• Patient identification and confirmation through RI Witness• Create and maintain records of patients' reports, both digitally and manually• Participated in administrative tasks and trained four new laboratory recruits	
Internee National Institute of Genomics and Advanced Biotechnology (NIGAB), National Agriculture Research Center (NARC), Pakistan	August 2021 – September 2021
<ul style="list-style-type: none">• Learned and successfully performed DNA Extraction, Gel Electrophoresis, and PCR on 80+ samples	
Freelance Content Writer Upwork.com	December 2020 – Present
<ul style="list-style-type: none">• Write creative, informational, and promotional articles to educate the audience and generate sales• Science content writer and reviewer at Educationalbootcamp.com• Maintain Excel sheets to ensure timely delivery and to keep track of payments• Guide classmates and juniors to start working in this field	

EDUCATION

MS Molecular Genetics CGPA 3.95 COMSATS University Islamabad <u>Coursework:</u> Advances in Molecular Biology, Molecular Genetics, Research Techniques, Clinical Genetics, Epigenetics, Histology, Multi-OMICS, Nanobiotechnology <u>Research Project:</u> Investigating the Pharmacogenomic Effects of Genetic Polymorphisms on Methotrexate Response in Pakistani Rheumatoid Arthritis Patients	Expected graduation: July 2025
BS Biosciences CGPA 3.72 COMSATS University Islamabad <u>Thesis:</u> Diet and Infertility as Independent Risk Factors for Bone Pain Conducted a survey in Islamabad among participants from diverse ethnic, socioeconomic, and educational backgrounds. Data on dietary factors was collected through Google Forms, while infertility data was gathered through patient interviews from multiple clinics. The data from 300+ participants was analyzed through Chi-square and ANOVA using Jamovi.	2018 - 2021
Higher Secondary School Certificate (HSSC Pre-Medical) 78% Islamabad Model College for Girls (IMCG) F-7/2, Islamabad	2015 - 2017
Secondary School Certificate (SSC) 93% Allama Iqbal Model School (AIMS), Tarlai Islamabad	2013 - 2015

SKILLS

1. **Lab Skills:** DNA Extraction, Gel Electrophoresis, PCR, Pipetting, Semen Analysis, Sperm Preparation and Cryopreservation, Phase-contrast microscopy
2. **Research Skills:** Referencing, Reports, Essays, Surveys, Statistical Analysis: Chi-square, ANOVA
3. **Technical Skills:** Microsoft Office Suite, Google Suite, RI Witness by Cooper Surgical, Timelapse cinematography by Vitrolife, Jamovi
4. **Other Skills:** social media management, analytical and problem-solving skills, excellent communication and presentation skills

COURSES

Writing in the Sciences Stanford University Coursera	February 2025
Genes and the Human Condition (From Behavior to Biotechnology) University of Maryland Coursera	September 2020
From Disease to Genes and Back Novosibirsk State University Coursera	July 2020
COVID-19: Tackling the Novel Coronavirus London School of Hygiene and Tropical Medicine Future Learn	April 2020

EXTRA CURRICULARS

Vice President Biome Student Society, COMSATS, ISB <ul style="list-style-type: none">• Developed strong organizational and team management skills by leading a team of 100+ members in planning and executing seven events, enhancing skills in project coordination and collaborative problem-solving.• Organized and conducted training sessions on Microsoft Office, Referencing, and Plagiarism removal	September 2020 – December 2021
General Member Institute of Electrical and Electronics Engineers (IEEE) Engineering in Medicine and Biology Society (EMBS), Youngistan (COMSATS) <ul style="list-style-type: none">• Volunteered in various events, including environmental campaigns and educational seminars, improving teamwork and cross-functional collaboration.	February 2018 – September 2020
Dream Art www.instagram.com/dreamart487 Small-scale crafting business <ul style="list-style-type: none">• Design and sell paper-made products: cards, bookmarks, scrapbooks	April 2020 – February 2022

ACHIEVEMENTS

1. Received a merit certificate twice during Bachelor's, graduating in the top 10 of my class
2. Scored 36 out of 48 points (among top 20%) in Climate Science Olympiad 2021
3. Secured second position in IEEE EMBS Biochemical Techno Hunt competition in December 2020
4. Qualified to round 2 in THINK SHACK 2020, organized by National University of Science and Technology (NUST) University, Islamabad

REFERENCES

Dr. Fatimah Ashraf | Embryologist | ICSI and Medicsi Hospitals, Pakistan
fatimahashraf@medicsi.com

Dr. Hassaan Mehboob Awan | Assistant Professor | COMSATS University Islamabad
hassaan.awan@comsats.edu.pk