

Mo Abuzar

M.Sc. in Medical Biochemistry | Jamia Hamdard University, New Delhi, India

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Education

M.Sc. Medical Biochemistry — Jamia Hamdard, Delhi | 2022–2025

B.Sc. Medical Laboratory Technology — Jamia Hamdard, Delhi | 2018–2022

Skills

Analytical Techniques: hands-on experience in DNA, RNA isolation, Gel-Electrophoresis, SDS-PAGE, Western Blotting, Cell Culture, ELISA, Spectrophotometry, PCR, Clinical chemistry analyzers, Microscopy.

Computational: Auto-dock, MS Office, Basic statistics, Manuscript writing.

Other: Machine handling (Beckman Coulter AU480, BIO Red-D10, Abbott (CLIA), Phlebotomy, Histopathology, Immunohistochemistry, Microbiology, Quality control.

Problem-Solving: Demonstrated ability to troubleshoot experiments, optimize procedures, and solve practical problems efficiently, and perform basic statistical analysis by GraphPad Prism tools.

Scientific Communication: Skilled in writing research papers, technical reports, and presenting findings.

Research & Thesis

Association of Serum Magnesium and Malondialdehyde with Markers of Metabolic Syndrome in Diabetic Retinopathy Patients

- Investigated oxidative stress biomarkers and vascular complications.
- Conducted experimental design, data collection, biochemical and statistical analyses of serum markers.
- Applied spectroscopic & molecular techniques for biomarker evaluation, relevant to understanding molecular transport and therapeutic pathways.

Research Experience

Poster Presentations:

- Role of serum magnesium in progression and treatment of diabetic retinopathy: A review (HIMSR & HAHC, Delhi)
- Urinary Biomarkers for diagnosis of Depression and Anxiety Disorders: A review (AIIMS Jodhpur)
- Evaluation of Serum Netrin-1 Levels as a Potential Biomarker for Diabetic Retinopathy (HINDU RAO Hospital, Delhi)

Workshops & Training:

- Organizer, HamdardBiocon-2024: Hands-on training on SDS-PAGE, Western Blotting & Cell Culture. [HAMDARDBIOCON-2024 - Hamdard Institute of Medical Sciences & Research \(HIMSR\)](#)
- Hands-on training: Genetic Analyzer (Sanger sequencing).
- Molecular Docking Workshop using Autodock Tools & Autodock 4 (2024).
- Workshop on Internal & External Quality Control in Medical Laboratory (2025).
- Workshop on Good Clinical Practice & Ethics in Human Research (2025).

Work Experience/Internship

Lab Technologist — GB Pant Hospital, Delhi | Jul 2021 – Jun 2022

- Performed biochemical assays, clinical chemistry analyses, and routine diagnostics.

Lab Technologist — Pt. Madan Mohan Malviya Hospital, Delhi | Feb 2021 – Jun 2021

- Conducted laboratory tests and experiments according to established protocols with accuracy and precision.

Conferences/CME

- ACBI North Zone Conference, AIIMS Jodhpur (2024)
- ISAR-DCCON Conference, Delhi (2024)
- NMMTA Clinical Scientist Conference, Dehradun (2024)
- HAMDARDBIOCON CME, Delhi (2024) [HAMDARDBIOCON-2024 - Hamdard Institute of Medical Sciences & Research \(HIMSR\)](#)

Languages

English, Hindi, Urdu