

ELHAM OZAE, Ph.D

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1. Professional Summary

Innovative Biotechnology Researcher with a Ph.D in Biotechnology and over 20 years of laboratory experience in molecular biology, microbiology, and diagnostics. Proven expertise in PCR/qPCR assay development, MLST, gene sequencing, and bacterial identification. Skilled in experimental design, data interpretation, and cross-disciplinary collaboration. Passionate about advancing molecular diagnostics and biotechnological research through precision, creativity, and scientific rigor.

2. Research & Professional Experience

Researcher – Biotechnology R&D

Polymer institute project, Biomaterial department Bratislava, Slovakia | Oct2025 – present

worked on a research project at the MOF polymer institute involving MOF-based systems for drug delivery. Gained experience in material synthesis, drug encapsulation, and performance testing.

Laboratory Diagnostic Specialist – Microbiology

Unilabs, Bratislava, Slovakia | Jan 2024 – Aug 2025

Performed bacterial identification and antimicrobial testing using MALDI-TOF and VITEK2 automated systems. Implemented diagnostic protocols. Supported method validation and data review for microbiological diagnostic testing.

Graduate Researcher – Biotechnology R&D

Comenius University, Bratislava, Slovakia | Sep 2018 – Nov 2023

Conducted independent research in molecular genetics and microbial biotechnology. Designed and optimized PCR, qPCR, MLST, gene typing, sequencing, and phage typing assays. Contributed to research publications and supervised students in molecular laboratory practices.

Laboratory Technician – Molecular Biology

Comenius University, Bratislava, Slovakia | Mar 2019 – Dec 2021

Established and managed laboratory setup for daily molecular and microbiological experiments. Assisted with experimental troubleshooting and standard operating procedure(SOP) development. Trained undergraduate students in fundamental molecular biology techniques.

Laboratory Diagnostic– Medical laboratory

Iranian Red Cross Society, Tehran, Iran | Sep 2004 – Aug 2015

Processed hematological, biochemical, and microbiological samples using both manual and automated systems.

Oversaw quality control systems under ISO laboratory standards.

Student Intern– Microbiology

Louis Pasteur Institute, Tehran, Iran | Jan 2001 – Jan 2002

Conducted microbiological testing and supported early-stage research projects.

3. Education

Ph.D. in Biotechnology

Comenius University, Bratislava, Slovakia | 2018 – 2023

M.Sc. in Molecular Biology

Tehran Azad University, Tehran, Iran | 2000 – 2002

B.Sc. in Molecular Biology

Tehran Azad University, Tehran, Iran | 1995 – 1999

4. Key Skills

Molecular Biology and R&D: PCR, qPCR, Gene Sequencing, MLST, Phage Typing, Bacterial Identification (MALDI-TOF, VITEK2), Experimental Design, Data Analysis, SOP Development.

Bioinformatics and Digital Tools: SnapGene, Pasteur, Office 365, Windows.

Research and Laboratory Management: Quality Control (ISO standards), Biosafety Compliance, Inventory Management, Lab Setup and Optimization.

Soft Skills: Team Collaboration, Analytical Thinking, Innovation, Problem Solving, Flexibility, Strong Work Ethic.

5. Languages

Persian – Native

English – C1 (Advanced)

German – B1 (Intermediate)

Slovak – B2 (Independent)

6. Selected Achievements

Developed and optimized molecular assays for genetic typing and pathogen identification.

Published and presented research at Comenius University in the field of microbial biotechnology.

<https://www.sciencedirect.com/science/article/pii/S0168170222003549>

<https://pubmed.ncbi.nlm.nih.gov/37508305/>.

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