Amirreza Abbasi

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Research, Problem-solving, Leadership, Teamwork, Persuasion

EDUCATION AND TRAINING

2022 – 2024 - University of Eastern Piedmont, ITALY, Master of Science, Medical Biotechnology - GPA: 85.5% (3.4)
2018 – 2021 - Azad University, IRAN, Bachelor of Science, Microbiology - GPA: 82% (3.28)
2014 – 2018 - Azad University, IRAN, Master of Science, Structural Engineering - GPA: 77% (3.08)
2011 – Azad University, IRAN, Bachelor of Science, Civil Engineering

WORK EXPERIENCE

2021 – Current, Research Assistant of Professor Habib MotieGhader, Bioinformatics
2022 – 2024, Internship Molecular Biology, Bellini Lab, Professor Diego Cotella
2018 – 2021, Biochemistry Laboratory Assistant of Professor Masoud Taheri (During bachelor's)
2014 – 2018, Civil Engineer - Construction Supervisor, IRAN
2010 – 2014, IT Manager – SAAF Film Holding, IRAN
2003 – 2010, International IT Courses Teacher (Microsoft, CompTIA), Mojtame Fani Tabriz & Alborz, IRAN

LANGUAGE SKILLS

English (B2), Italian (A1), Persian, and Turkish (Mother tongue)

SKILLS

Bioinformatic Skills

Python | R | Linux | C# | Visual Basic | ASP.NET | SQL | Android & iOS Programming | Data visualization
Statistical Analysis (SPSS) | Big Data Analysis | Artificial Intelligence - Machine Learning | Genomics | Proteomics
Research and analysis of biological data | (NCBI, TCGA, UCSC, KEGG, STRING, etc.) | Blast | GenBank | Cytoscape
Primer Design | Single Cell Analysis | RNAseq (FastQC, DEseq2, Trimmomatic, HISAT2/STAR) | Microsoft Project

Lab Skills

PCR | Western Blot | SDS-PAGE Electrophoresis | Sanger Sequencing | Plasmid Transformation | Cell staining
Genetic Engineering (Prokaryotes) | FISH | Protein Quantifying | Protein Induction | Protein purification
Gel Electrophoresis | SDS-PAGE | Western blot | RNA extraction

HONOURS AND AWARDS

2025, What Is Generative AI by LinkedIn and Microsoft
2022, Artificial Intelligence programming with Python, Harvard University online
2003, Microsoft Certified Systems Engineer

PUBLICATIONS

1- Feature Selection and mRNA-miRNA bipartite Network Analysis for Biomarker Development and Drug Repurposing in Colon Cancer (PG Zavarzadeh, Z Abedi, **A Abbasi**, H MotieGhader, A Masoudi-Nejad – Published Europe PMC, 2024)

2- Protein-Protein Interaction Network Analysis and Drug Repurposing for Uveal Melanoma Patients: Drug Repurposing for Uveal Melanoma (NSS Zakeri, P Tabrizi-Nejhadi, **A Abbasi**, H MotieGhader – Published Journal of Ophthalmic and Optometric Sciences, 2020)

3- Targeting NSCLC: Identification of Novel Drugs through TF-miRNA-Gene Network Analysis (H MotieGhader, Z Abedi, MA Sheikhbeigi, NSS Zakeri, **A Abbasi** – Submitted Advanced Biomedical Research – 2025)

4- Integrative Computational Approach to Discover Critical Genes, miRNAs, and Potential Drugs for Colon Cancer (PG Zavarzadeh, H MotieGhader, Z Abedi, , **A Abbasi**, SM Jazayeri, S Nematzadeh - Submitted Advanced Biomedical Research – 2025)

5- Identification of biomarkers for sepsis using TF-miRNA-Gene regulatory networks and machine learning (**A Abassi**, Z Abedi, NSS Zakeri - Submitted BMC Genomic Data – 2025)

6- Cancer prediction based on cancer driver genes using Deep Learning (A Abbasi, Sajjad Nematzadeh, Habib MotieGhader - ongoing)

7- Prediction and calculation of lung residual volume (RV) by Deep Learning (Parvaneh Naserzadeh, Sajjad Nematzadeh, **A Abbasi** – ongoing – waiting for ethical committee approval)

8- Bladder tissue RNA-Seq Single Cell Analysis (**A Abbasi** – writing draft)