

Hossein Nasouti Aghjehroud

WET-LAB CANCER RESEARCHER · BIOINFORMATICIAN · COMPUTATIONAL BIOLOGIST

Turin, Italy | hossein.nasoutiaghjehroud@unito.it | linkedin.com/in/hossein-nasouti

PROFESSIONAL PROFILE

Multidisciplinary cancer researcher integrating hands-on cellular and molecular biology with bioinformatics and computational analysis. Experienced in hematological malignancies, functional genomics, cell physiology, and translational model systems. Works across experimental design, sample preparation, molecular assays, imaging, sequencing-derived evidence, and scientific digital products. Founder of Atlas Studio and creator of ATLAB.

WORK EXPERIENCE

SEP 2026 —
PRESENT

AIRC Research Fellow

Department of Medical Sciences · University of Turin

Expression and functional analysis of the noncanonical WNT co-receptor RYK in chronic lymphocytic leukemia and diffuse large B-cell lymphoma, under Prof. Silvia Deaglio. Experimental work includes RNA and DNA extraction, reverse-transcription PCR, real-time PCR, Western blotting, and functional investigation of B-cell malignancies.

2022 — 2025

Research Intern · Hematology

Department of Molecular Biotechnology and Health Sciences · University of Turin

Investigated minimal residual disease in newly diagnosed multiple myeloma by comparing next-generation flow cytometry (NGF), next-generation sequencing (NGS), and PET/CT evidence. Evaluated cytogenetic abnormalities in purified plasma cells using FISH and prepared samples using the Ficoll protocol.

OCT 2023 — MAR
2024

Research Intern · Cell Physiology

Department of Life Sciences and Systems Biology · University of Turin

Cultivated MCF7 cancer cells and studied calcium signaling and reactive oxygen species. Conducted fluorescence microscopy, time-lapse imaging, image processing, and cellular-response analysis.

ONGOING

Founder · Atlas Studio

atlasstudio.app · atlab.atlasstudio.app

Founded a web development studio and built ATLAB, connecting scientific workflows with clear, usable digital products.

EDUCATION AND TRAINING

APR 2025

MSc Cellular and Molecular Biology · Biomedical Sciences

University of Turin

Thesis: Assessment of Minimal Residual Disease in newly diagnosed multiple myeloma patients enrolled in a clinical trial—comparison of NGF and NGS.

JUL 2025

Translational Immunology Training

CAAD · University of Piemonte Orientale

Intensive training in 3D cell cultures, CHIP-based organoids, media preparation, organoid maintenance, and organ-on-chip platforms for immune-tissue interaction and therapeutic-response modeling.

2020

BSc Cellular and Molecular Biology

Kharazmi University

Foundation in molecular and cellular biology, genetics, immunology, and experimental research.

TECHNICAL EXPERTISE

Wet-lab molecular biology	RNA extraction · DNA extraction · reverse-transcription PCR · real-time PCR · Western blotting · FISH · Ficoll sample preparation
Cellular & translational models	Cancer cell culture · MCF7 · 3D cell cultures · organoid maintenance · organ-on-chip systems · cell viability and treatment response
Cytometry & imaging	Next-generation flow cytometry (NGF) · fluorescence microscopy · calcium imaging · reactive oxygen species analysis · time-lapse imaging · image analysis
Genomics & computation	Next-generation sequencing (NGS) · Python · BioPython · R · data wrangling · statistical analysis · data visualization
Digital practice	Web development · scientific platform design · research communication · ATLAB

SELECTED PUBLICATIONS

- 2026** **Immune Dysregulation and Viral Persistence in HPV-HIV Coinfection**
HIV/AIDS — Research and Palliative Care
Oncogenic and clinical implications. DOI: 10.2147/HIV.S616942
- 2025** **Integrating Stimuli-Responsive Scaffolds with Single-Cell Transcriptomics**
Book · Zenodo
Macrophage function and immune checkpoints in atherosclerosis. DOI: 10.5281/zenodo.17672289

ADDITIONAL DEVELOPMENT

- 2024** **Python and BioPython for Bioinformatics**
Dandelion Academia Canada
Object-oriented programming, biological data handling, and data visualization.
- 2024** **R: Wrangling, Visualizing, and Modeling Data**
LinkedIn Learning · Project Management Institute
Data preparation, visualization, and analytical modeling in R.
- 2020** **2nd International Computational Biology Workshop**
SARS-CoV-2 genome analysis, protein and RNA design, biological networks, machine learning, gene expression, and drug repositioning.

LANGUAGES

Persian and Azerbaijani: mother tongues English: C1 Italian: B2 Turkish: C1

ACADEMIC REFERENCES

Alessandra Fiorio Pla	Mattia D'Agostino
Associate Professor · Stage Supervisor University of Turin alessandra.fiorio@unito.it	Associate Professor · Thesis Tutor University of Turin mattia.dagostino@unito.it

References are listed with professional contact details only. Personal and referee phone numbers are intentionally omitted.