



AL MAGNIFICO RETTORE  
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

COD. ID: 6789

Il sottoscritto chiede di essere ammesso a partecipare alla selezione pubblica, per titoli ed esami, per il conferimento di un assegno di ricerca presso il Dipartimento di Bioscienze

Responsabile scientifico: Prof. Mantovani Roberto

[Nazanin Nasehi]

## CURRICULUM VITAE

### INFORMAZIONI PERSONALI

Cognome	Nasehi
Nome	Nazanin

### OCCUPAZIONE ATTUALE

Incarico	Struttura
Recently Master graduated	12/04/2024

### ISTRUZIONE E FORMAZIONE

Titolo	Corso di studi	Università	anno conseguimento titolo
Laurea Magistrale o equivalente	Cellular and Molecular Biology	University of Turin	04/2024
Specializzazione			
Dottorato Di Ricerca			
Master			
Altro			

### ISCRIZIONE AD ORDINI PROFESSIONALI

Data iscrizione	Ordine	Città



## LINGUE STRANIERE CONOSCIUTE

lingue	livello di conoscenza
English	Professional

## PREMI, RICONOSCIMENTI E BORSE DI STUDIO

anno	Descrizione premio
2021	Borsa di studio   EDISU, Turin
2021	3 month scholarship for Internship in Medical Genetics Center of Genome, Isfahan, Iran

## ATTIVITÀ DI FORMAZIONE O DI RICERCA

### descrizione dell'attività

\_ Summary of my internship research at Italian Institute of Technology, Milan, Italy: In this project, I utilized C2C12 cells to differentiate them by bioprinting techniques in linear structure and performed light stimulation with and without ZIAPIN2—the analysis done by Matlab. Then, characterization was done by immunofluorescence using confocal microscopy. Also, I cooperated with the biophysics group to experiment with P3HT-based organic transistor behavior in the case of cell seeding on top and the different action potentials with patch clamps step by step and recording with transistors to compare them.

\_ Summary of my master thesis at Candiolo Cancer Institute, Torito, Italy: Pancreatic ductal adenocarcinoma (PDAC) remains one of the most lethal human solid tumors. Pancreatic intraepithelial neoplasias (PanIN) are pretumoral lesions that arise from pancreatic acinar cell transdifferentiation into duct-like precursors. Preliminary results from RNAseq data of murine acinar and PanIN cells revealed synaptic gene sets enriched in acinar cells, particularly indicating synaptic gene Neuroligin2 (NLGN2) loss in PanIN. This result has been validated in vitro, where NLGN2 silencing in normal pancreatic cells induces polarity loss consistently with advanced PanIN features. In this study, we delve deeper into the role of NLGN2 and its molecular mechanism regulating PanIN progression. We observed that the absence of NLGN2 correlates with higher cell proliferation at the confluence, indicating NLGN2 role in contact inhibition. Functionally, NLGN2 is indispensable for establishing the PALS1/PATJ complex, a master regulator of cell polarity. This complex recruits YAP, promoting its inactivation, and NLGN2 loss impairs contact inhibition through upregulated YAP activity.

## ATTIVITÀ PROGETTUALE

Anno	Progetto
05/2024 - present	Full time Research and Development (R&D) in RAH ZIST NOAVARAN, Isfahan, Iran: Microbiological Research, Develop new microbial strains with applications in biotechnology and industrial processes
10/2023 - 04/2024	Internship in Italian Institute of Technology, Milan: Skeletal muscle cells opto-stimulation by intramembrane molecular transducers
05/2022 - 03/2023	Master thesis in Candiolo Cancer Institute - FPO, IRCCS, Turin: Molecular mechanisms underlying the loss of epithelial polarity in pancreatic cells during PanIN progression and PDAC onset: Insights from NLGN2 expression analysis



01/2021 - 04/2021	Internship in Medical Genetics Center of Genome, Isfahan, Iran: Analysis of Genetic Variants Associated with Hereditary Diseases Using Advanced Genomic Techniques
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## CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Sede
19/06/2024	A novel role of non-coding RNAs as crucial tethering molecules in regulating gene expression	RNA initiative at the Italian Institute of Technology (iRNA@IIT), Virtual
13/07/2023	12th MILAN MEETS IMMUNOLOGY	Milan, Italy
10/11/2022	Targeting pathogenic B6/B7-loop epitope of misfolded SOD1 - a potential therapeutic strategy for ALS	Turin, Italy
25/10/2022	Two stories, one message: Loss of brain-immune homeostasis threatens brain function	Turin, Italy
21/10/2022	IgM secretion configures an aggressive subgroup of diffuse large B-cell lymphomas	Turin, Italy

## Atti di convegni

Biological and non-biological vectors as vaccine delivery vehicles for cancer therapy, the 4<sup>th</sup> international congress on biomedicine, Isfahan, Iran, 2020

Investigation of photocatalytic properties of ZnO, AgCl & CuO by sol-gel synthesis method, 8th National Olympiads for Nano Science & Nanotechnology, Tehran, Iran, 2017

Synthesis of silver nanoparticles in tree leaf veins by reduction method, 7<sup>th</sup> National Olympiads for Nano Science & Nanotechnology, Karaj, Iran, 2016

## ALTRE INFORMAZIONI

### Skills:

- Cell Culture (Primary cells)
- 3D Bioprinting
- Confocal Microscopy
- Molecular Biology Techniques (PCR, Western Blotting, RNA Extraction)
- Data Analysis (SPSS, Python)
- High-Throughput Screening Methods
- Immunostaining
- Flow Cytometry

### Relevant courses:

- Immunopathology And Physiopathology
- Oncology And Molecular Pathology
- Advanced Molecular Biology
- Medical And Cancer Genetics

**Soft skills:**

I value collaboration, innovation, and excellence. As a young researcher, I am highly motivated and results-driven, paying particular attention to detail. After my Master's, it was clear that I enjoyed and excelled at problem-solving. During these years, my passion was outcome-driven data analysis and finding new and creative approaches to solving particular problems. I thrive in an environment where I can discuss my ideas with colleagues and have the freedom to work and build on these ideas independently. I believe that joining your lab will not only help me achieve my goal of becoming a future group leader but also training and mentorship from your lab will equip me with the skills and network to achieve this goal by engaging in pioneering research, publishing in high-impact journals, and presenting at international conferences. I am passionate about applying my cellular and molecular biology, pathophysiology, oncology, and medical research expertise to model and screen for rare and complex disorders and develop new therapies for specific breast and gastric tumors subtypes.

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del DPR n. 445/2000.

Il presente curriculum, non contiene dati sensibili e dati giudiziari di cui all'art. 4, comma 1, lettere d) ed e) del D.Lgs. 30.6.2003 n. 196.

**RICORDIAMO** che i curricula **SARANNO RESI PUBBLICI sul sito di Ateneo** e pertanto si prega di non inserire dati sensibili e personali. Il presente modello è già precostruito per soddisfare la necessità di pubblicazione senza dati sensibili.

Si prega pertanto di **NON FIRMARE** il presente modello.

Luogo e data: \_\_\_\_Isfahan\_\_\_\_, \_\_02/09/2024\_\_