



AL MAGNIFICO RETTORE
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

COD. ID: 7045

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 Pharmacological and Biomolecular Sciences

Responsabile scientifico: Prof. Cattaneo Paola

[Nazanin Nasehi]

CURRICULUM VITAE

INFORMAZIONI PERSONALI

Cognome	Nasehi
Nome	Nazanin

OCCUPAZIONE ATTUALE

Incarico	Struttura
Research and Development (R&D)	05/2024 - 12/2024

ISTRUZIONE E FORMAZIONE

Titolo	Corso di studi	Università	anno conseguimento titolo
Laurea Magistrale o equivalente	Cellular and Molecular Biology	University of Turin	04/2024

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

1. As a full-time R&D researcher at Rah Zist Noavaran, I focused on microbiological research, specifically developing novel microbial strains for applications in biotechnology and industrial processes. My work involved strain optimization, experimental design, and advancing bioprocess solutions to enhance microbial efficiency and scalability for diverse applications.
2. I expanded my expertise during an internship at the Italian Institute of Technology, where I explored 3D bioprinting and hydrogel-based platforms. I optimized a novel molecular photo transducer for the optical stimulation of skeletal muscle cells, enabling precise analysis of contraction behavior and reducing cell stress compared to traditional electrical methods. This work involved advanced imaging tools for object recognition and deepened my understanding of tissue engineering and microfabricated platforms. Although this project differed from my thesis, it demonstrated my ability to adapt and address new challenges through efficient interdisciplinary collaboration effectively.
3. I conducted my master's thesis at Candiolo Cancer Institute, focusing on Pancreatic Ductal Adenocarcinoma (PDAC). I investigated the role of Neuroligin2 (NLGN2) in PanIN progression, demonstrating its critical function in maintaining cell polarity and regulating contact inhibition via the PALS1/PATJ complex and YAP activity. This research deepened my expertise in molecular mechanisms of cancer progression and honed my skills in RNA sequencing, in vitro validation, and advanced cellular analysis.

ATTIVITÀ PROGETTUALE

Anno	Progetto
05/2024 - 12/2024	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

CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Sede
13/12/2024	3RCC Symposium on Successfully Implementing NAMs	Bern, Switzerland
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

PUBBLICAZIONI

Atti di convegni
Gene therapy for cancer, International Congress of Isfahan Biomedical Sciences, Isfahan, 2020
Biological and non-biological vectors as vaccine delivery vehicles for cancer therapy, International Congress of Isfahan Biomedical Sciences, Isfahan, 2020
Investigation of photocatalytic properties of ZnO, AgCl & CuO by sol-gel synthesis method, 8th National Nanotechnology Olympiad, Tehran, Iran, 2018

ALTRE INFORMAZIONI

Skills: <ul style="list-style-type: none">• 2D/3D Cell Culture (Human/Mice Cells): HPDE/CACO2, C2C12, HEK.• Confocal Microscopy: High-resolution imaging of cellular interactions and tumor architecture.• Molecular Biology Techniques (PCR, Western Blotting, RNA Extraction, realtimePCR)• Bioinformatics & Data Analysis (SPSS, Python): Analysis of transcriptomic and spatial data.• High-Throughput Screening Methods• Immunofluorescence, immunohistochemistry, imaging• Flow Cytometry
Relevant courses: <ul style="list-style-type: none">• Neuroanatomy• Neuropharmacology• Oncology And Molecular Pathology• Advanced Molecular Biology• Medical And Cancer Genetics
Soft skills: <p>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</p>



at international conferences. I am deeply motivated to apply my expertise in cellular and molecular biology, pathophysiology, and medical research to understand the intricate mechanisms behind cardiac extracellular matrix-cell interactions in dystrophic cardiomyopathies. My background in oncology and vertebrate embryonic patterning has driven me to explore how cellular interactions influence disease onset and progression. By engaging in this project, I aim to contribute to the development of novel therapeutic approaches, while enhancing my skills and knowledge in cutting-edge methodologies essential for advancing cardiovascular research.

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: ____Lodi____, __15/12/2024__