



AL MAGNIFICO RETTORE
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

COD. ID: 7100

Il sottoscritto chiede di essere ammesso a partecipare alla selezione pubblica, per titoli ed esami, per il conferimento di un assegno Dip di Scienze Farmacologiche e Biomolecolari Rodolfo Paoletti

Responsabile scientifico: Prof. Perego Carla

[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• histological staining, immunohistochemistry and immunofluorescence techniques, imaging• Flow Cytometry
Relevant courses: <ul style="list-style-type: none">• Oncology And Molecular Pathology• Advanced Molecular Biology• Medical And Cancer Genetics
Soft skills: <p>I value collaboration, innovation, and excellence in scientific research. As a motivated and detail-oriented young researcher, I thrive in environments that encourage creative problem-solving. Following my Master's, I discovered a strong passion for outcome-driven data analysis and developing new, innovative approaches to complex research challenges. I particularly enjoy working in a collaborative atmosphere where I can exchange ideas with colleagues while also having the autonomy to independently build upon them.</p> <p>Joining your team on the "Drug-induced polyploid giant cancer cells in ovarian tumor in preclinical models" project excites me because it offers a unique opportunity to apply my expertise in cellular and molecular biology, as well as data analysis, to advance the understanding of cancer biology. I am particularly drawn to the integration of artificial intelligence with multi-approach characterization</p>



techniques, as this aligns with my interests in innovative methodologies. I am eager to contribute to the transcriptomics, histological analyses, and digital image processing aspects of the project while expanding my knowledge of advanced tools like superresolution microscopy and AI-based data integration.

I believe that this position will provide me with invaluable training and mentorship, allowing me to hone my skills in cutting-edge research while contributing to the development of novel insights into ovarian cancer. Moreover, I look forward to engaging in the drafting of manuscripts, collaborating with undergraduate and PhD students, and gaining experience in publishing and presenting research in high-impact journals and international conferences.

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____, __04/01/2024__