



**AL MAGNIFICO RETTORE
DELL'UNIVERSITA' DEGLI STUDI DI MILANO**

COD. ID: 6571

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 Scienze Farmaceutiche

Responsabile scientifico: Prof. Lecca Davide

CURRICULUM VITAE

INFORMAZIONI PERSONALI

Cognome	Rashid
Nome	Aminur

OCCUPAZIONE ATTUALE

Incarico	Struttura

ISTRUZIONE E FORMAZIONE

Titolo	Corso di studi	Università	anno conseguimento titolo
Laurea Magistrale o equivalente	Molecular Biology of the Cell	Universita degli studi di Milano	2023
Specializzazione			
Dottorato Di Ricerca			
Master			
Diploma Di Specializzazione Medica			
Diploma Di Specializzazione Europea			
Altro			

ISCRIZIONE AD ORDINI PROFESSIONALI

Data iscrizione	Ordine	Città



LINGUE STRANIERE CONOSCIUTE

lingue	livello di conoscenza
English	B2

PREMI, RICONOSCIMENTI E BORSE DI STUDIO

anno	Descrizione premio
2022/2023	Erasmus+ Exchange program
2022/2023	Borsa di Studio - DSU
2017/2018/2019/2020	Merit scholarship by AMU alumni association WASHINGTON -DC, Michigan
2013	Anundoram Borooah Award in recognition of excellent academic performance in high school.

ATTIVITÀ DI FORMAZIONE O DI RICERCA

descrizione dell'attività: Investigating doxorubicin-induced cardiotoxicity in mice : unraveling Serpina3n's role in mitigating doxorubicin-induced cardiotoxicity (master's thesis; Supervisor - Prof. Pieter-Jan Guns; Prof. Andrea Francesco Barbuti) - During the internship, animal models (C57Bl/6J) mice were used to study the cardiovascular toxicity. With in-vivo (echocardiography) we studied heart function i.e. systolic and diastolic function, and ex- vivo (organ bath technique) we studied vascular function i.e. NO dependent endothelial cell (EC) function under Ach and NO independent EC function under DEANO and PE induced VSMC contraction. Moreover, through proteomics study we found the upregulation of 'SERPINA3N' (which is a serine protease inhibitor) in doxorubicin-treated mice in 2 weeks and 6 weeks and we investigated it's potential role in chemotherapy-induced cardiotoxicity. With the help of standard molecular techniques such as western blot, RT- qPCR, immunohistochemistry and ELISA we validated the upregulation of SERPINA3N in our model. Finally SERPINA3 were quantified in plasma of patients and showed elevated levels of SERPINA3 and we proposed that ' SERPINA3N may hold the potential of a promising cardiovascular biomarker in chemotherapy-induced cardiovascular toxicity.

Unraveling the role of macrophages in angiogenesis in models of cancer and retinopathy in mice (Internship: Prof. Alessandro Fantin) - The aim is to investigate EC and macrophages communication via CXCL12/CXCR4 and Notch signalling in HUVECs and PyMT and to determine whether Notch1 modulates CXCR4 or CXCR4 modulates Notch1. Moreover, to examine the tissue-specific primary cultures in mice or rats to study endogenous SDF1-mediated Notch1/CXCR4 modulation. Furthermore, neonatal mouse retina were dissected and investigated for retinal angiogenesis.

Investigating the impact of Immune Checkpoint Inhibitors on endothelial cells of vascular aortic segments - In this project (pilot experiment), the effect of Immune Checkpoint Inhibitors studied on endothelial cells using different experimental models i.e. wild type (C57Bl/6J) mice and apoE-/- mice, combined with hypercholesterolemia and doxorubicin treatment to induce a background level of chronic inflammation.

Assessing the cardiovascular safety liabilities of VEGF inhibitors (eg: Axitinib, lenvatinib)- A collaboration project with University of Nottingham, UK to evaluate vascular function (contraction and relaxation of aortic segments mounted in organ Bath), in-vivo studying heart



function and performed molecular as well as histological analysis to provide insights into the toxicity induced by VEGF Inhibitors.

ATTIVITÀ PROGETTUALE

Anno	Progetto
2022	Telomeres-related genome instability and cancer : Submitted bibliographic works on the above mentioned project title as a part of curriculum at Department Bioscience, University of Milan
2023	Patient-derived organoids model cervical tissue dynamics and viral oncogenesis in cervical cancer: Delivered a presentation on the novel methodology used in the article at the Department of Bioscience, University of Milan, Italy
2020	MicroRNAs and it's emerging roles in breast cancer diagnostic marker: Submitted bachelor's project work (bibliographical) on the above mentioned topic
2020	Comprehensive review of mechanisms of pathogenesis involved in Alzheimer's disease and potential therapeutic strategies: Attended online summer internship organised by Council of Scientific and Industrial Research (CSIR) in the specified project in the year 2020 where i have been exposed to the ongoing scientific research in Alzheimers diseases and instructions in writing scientific articles were provided.

TITOLARITÀ DI BREVETTI

Brevetto

CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Sede
2023	Participated in the annual conference on "Belgian Society of Physiology and Pharmacology	
2023	Webinar on human iPSC added value to the drug discovery pipeline" by Ncardia, Belgium	
2023	Webinar on atherosclerosis: from models to novel pharmacological treatment strategies" by Laboratory of Physiopharmacology, University of	



	Antwerp, Belgium	
2020	Participated in 'See The Future Conference' with keynote speaker Noble Laureate Richard J Roberts.	

PUBBLICAZIONI

Libri
[titolo, città, editore, anno...]
[titolo, città, editore, anno...]
[titolo, città, editore, anno...]

Articoli su riviste
SERPINA3n: a novel marker in doxorubicin induced cardiotoxicity from bench to bedside. Manuscript under preparation.
[titolo articolo, rivista, città, editore, anno...]
[titolo articolo, rivista, città, editore, anno...]

Atti di convegni
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[titolo, struttura, città, anno]
[titolo, struttura, città, anno]

ALTRE INFORMAZIONI

Skills: Animal handling (Dissection of aorta, heart, kidney, retina etc.) Echocardiography, Isometric organ bath, Rodent Oscillatory Tension Set-up for Arterial Compliance (ROTSAC) Genotyping of mouse, Fluorescence Activated Cell Sorting (FACS): From sample preparation to analysis, Cell culture, Western Blot, RT-qPCR, ELISA, Cryostat sectioning Retina, Heart Immunohistochemistry, Immunostaining, Light microscopy, Fluorescence microscopy, Isolation of proteins, Nucleic Acids, Usage of Graph pad prism9, QBase as well as various other statistical software.

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 pre-costruito per soddisfare la necessità di pubblicazione senza dati sensibili.



UNIVERSITÀ DEGLI STUDI DI MILANO

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

Luogo e data: Milan, 30/04/2024