



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 6828

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Scienze Farmaceutiche**

Scientist- in - charge: **Professor Luigi Sironi**

**Majeda Muluhie**

## CURRICULUM VITAE

### PERSONAL INFORMATION

Surname	Muluhie
Name	Majeda

### PRESENT OCCUPATION

Appointment	Structure
PhD student	University of Milan - Department of Pharmaceutical Sciences

### EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Master's Degree	LM-9 (Master program in Safety Assessment of Xenobiotics and - biotechnological Products)	University of Milan	2020
Specialization			
PhD			
Master			
Degree of medical specialization			
Degree of European specialization			
Other			
Bachelor's degree (five-years cycle program)	Pharmacy	Philadelphia University	2017



Post-graduate advanced course (Corso di perfezionamento)	The use of laboratory animals (Rodents): Specialized training for Individuals involved in experimental animal use for scientific purposes.	University of Milan	2023
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## REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
2017	Pharmacist Association	Jordan

## FOREIGN LANGUAGES

Languages	level of knowledge
English	Excellent

## AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of Scholarship and awards
2013	Excellence scholarship granted by Philadelphia University, for the bachelor's degree in pharmacy
2017	International excellence exemption scholarship granted by University of Milan, for the master's degree program in "Safety assessment of xenobiotics and biotechnological products"
2021	Scholarship "Giovani Promettenti" granted by University of Milan, for research on "Role of PCSK9 in the calcification and stenosis of the aortic valve in murine model" in the Laboratory of Pharmacology of Thrombosis and Atherosclerosis directed by Professor Luigi Sironi at the Department of Pharmaceutical Sciences
2024	Travel grant granted by the Italian Society of Pharmacology, to attend the international summer school in neuroscience in Catania-Italy

## TRAINING OR RESEARCH ACTIVITY

<p>Description of activity:</p> <p>Majeda Muluhie holds a bachelor's degree in pharmacy and has practiced as a pharmacist in both community and hospital pharmacies. Additionally, she has a master's degree in safety assessment of xenobiotics and biotechnological products from the University of Milan. She carried out her master's thesis traineeship in the Laboratory of Developmental Neurobiology, where she began her early research activity and applied various laboratory protocols, including Boyden chamber and cell adhesion assays, as well as immunocytochemistry. She graduated with 110/110 cum Laude with a thesis titled: "Studying the Effects of Paracetamol as an Endocrine Disruptor on GnRH Neuron Biology: In Vitro Studies".</p> <p>Later, she won a fellowship for young researcher "giovani promettenti", during which she pursued her research activity in the Laboratory of Pharmacology of Thrombosis and Atherosclerosis at University of Milan. Her research activity focused on studying cardio- and cerebrovascular diseases using both in-vivo</p>
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and in-vitro animal models of myocardial infarction and stroke. Throughout this opportunity, she gained wide experience with various cellular and molecular biology techniques, including western blot, polymerase chain reaction (PCR) and immunohistochemical and fluorescent assays. She also became proficient in a variety of cell culture techniques, and the use of essential software such as GraphPad, Photoshop, and ImageJ for proficient data analysis.

Currently, she is in the final year of her PhD studies, she is majoring in studying the role of extracellular vesicles in the cardio-cerebrovascular system using animal and cell culture models, where she is delving her skills in the isolation of extracellular vesicles from in-vivo and in-vitro sources and characterizing them and their molecular content using advanced techniques such as confocal microscope, flow cytometer analysis and qPCR. During her PhD studies, Majeda participated in the "Seed for Innovation" program organized by the UNIMI foundation and advanced to the final phase with a cardiovascular project that she is working on to develop further in the future.

Furthermore, she is involved in a project at the Hospital de la Sant Creu I Sant Pau in Barcellona, Spain, where she is working on clinical studies that involve characterizing extracellular vesicles in familial hypercholesterolemia patients using flow cytometry analysis.

## PROJECT ACTIVITY

Year	Project
2020	Cariplo foundation Project title: Role of PCSK9 in the calcification and stenosis of the aortic valve in murine model Principal investigator: Professor Luigi Sironi

## PATENTS

Patent

## CONGRESSES AND SEMINARS

Date	Title	Place
September 2022	Second DISFARM Insights - Department of Pharmaceutical Sciences (Oral presentation)	Milan - Italy
July 2023	PhD annual meeting (Oral presentation)	Milan - Italy
July 2023	XVI European Meeting on Glial Cells in Health and Disease (Poster presentation)	Berlin - Germany
September 2023	20th National Congress of the Italian Society of Neuroscience (Poster presentation)	Turin - Italy
July 2024	PhD annual (Oral presentation)	Milan - Italy
November 2024	42° national congress for the Italian society of Pharmacology (Abstract accepted for oral presentation)	Sorrento - Italy



PUBLICATIONS

Scopus ID: 57305665800

<https://orcid.org/0000-0001-6070-442X>

SciProfiles: 1912273

H Index (SCOPUS): 2

Books
[title, place, publishing house, year ...]
Published articles and review
1. Cerebral derailment after myocardial infarct: mechanisms and effects of the signaling from the ischemic heart to brain Paolo Gelosa, Laura Castiglioni, Joanna Rzemieniec, Majeda Muluhie, Marina Camera, Luigi Sironi Journal of Molecular Medicine, Impact factor: 5.6 (2021) October 2021 Citation (SCOPUS) N= 8 Doi: 10.1007/s00109-021-02154-3
2. Nuclear Receptors in Myocardial and Cerebral ischemia Joanna Rzemieniec, Laura Castiglioni, Paolo Gelosa, Majeda Muluhie, Benedetta Mercuriali, Luigi Sironi International Journal of Molecular Sciences, Impact factor: 6.2 (2021) November 2021 Citation (SCOPUS) N= 8 Doi: 10.3390/ijms222212326
3. Montelukast, an available and safe anti-asthmatic drug, prevents maladaptive remodelling and maintains cardiac functionality following myocardial infarction Majeda Muluhie, Laura Castiglioni, Joanna Rzemieniec, Benedetta Mercuriali, Paolo Gelosa, Luigi Sironi Scientific Reports, Impact factor: 3.8 (2023) February 2024 Citation (SCOPUS) N= 0 Doi: 10.1038/s41598-024-53936-x
4. Fenofibrate reduces cardiac remodeling by mitochondrial dynamics preservation in a renovascular model of cardiac hypertrophy Laura Castiglioni, Paolo Gelosa, Majeda Muluhie, Benedetta Mercuriali, Joanna Rzemieniec, Marco Gotti, Fabio Fiordaliso, Giuseppe Busca, Luigi Sironi European Journal of Pharmacology, Impact factor: 4.2 (2023) June 2024



Citation (SCOPUS) N= 0

Doi: 10.1016/j.ejphar.2024.176767

Congress proceedings

**Oligodendrocytes are key players in the montelukast-induced protection against stroke**

Majeda Muluhie, Benedetta Mercuriali, Juliana Helena Castro E Silva, Laura Castiglioni, Paolo Gelosa, José Maria Delgado-Garcia, Agnès Gruart, Davide Lecca, Mauro Cimino, Joanna Rzemieniec, Maria P. Abbracchio, Luigi Sironi

Abstract book, Berlin, Germany, 2023

XVI European Meeting on Glial Cells in Health and Disease, Berlin, July 8-11, 2023. Glia: Volume 71, Issue S1, E673 - E674.

<https://onlinelibrary.wiley.com/doi/10.1002/glia.24419> by CochranEItalia, Wiley Online Library.

**Montelukast, a safe anti-asthmatic drug, protects against stroke by improving anti-oxidant defence of oligodendrocyte precursor cells**

Majeda Muluhie, Juliana Helena Castro E Silva, Benedetta Mercuriali, Laura Castiglioni, Paolo Gelosa, José Maria Delgado-Garcia, Agnès Gruart, Davide Lecca, Mauro Cimino, Joanna Rzemieniec, Maria P. Abbracchio, Luigi Sironi

Abstract book, Torino, Italy, 2023

OTHER INFORMATION

Education activity:

**Co-supervisor of Bachelor's and Master's students for thesis preparation** (University of Milan, Department of Pharmacological and Bimolecular Sciences) per:

Pharmaceutical Chemistry and Technology (CTF) n=1

Pharmacological Biotechnology n=1

Biotechnology n=1

**Junior member in the Italian Society of Pharmacology**

**Authored and published a web post titled (*Ruolo delle vescicole extracellulari nell'interazione cuore-cervello*) on the RicercaMix website in the year 2023**

**Advanced to the final phase of the Seed for Innovation program organized by the UNIMI foundation in the year 2023**

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: Milano, 19/08/2024