



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 6872

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 Biomediche e Cliniche dell'Università degli Studi di Milano

Scientist- in - charge: **ZUCCOTTI Gianvicenzo**

[**BONNET Maxime**]

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Maxime
Name	BONNET

PRESENT OCCUPATION

Appointment	Structure
Post-doctoral fellow	Dipartimento di Scienze Biomediche e Cliniche

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Bachelor	Aix-Marseille university	2014
PhD	PhD	Aix-Marseille university	2020
Master	Master	Aix-Marseille University	2016

FOREIGN LANGUAGES

Languages	level of knowledge
French	Mother tongue
English	Good level
Italian	Basic level



AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2020	First prize from the French National Academy of surgery (3k€).
November 3 - 4 th , 2017	Finalist presentation at the 4th International Spinal Cord Repair Meeting in Barcelona.

TRAINING OR RESEARCH ACTIVITY

My research lies at the intersection of fundamental and applied research, encompassing several interconnected fields such as neurophysiology, cellular biology, and neuroscience. During my PhD, I focused on studying sensorimotor recovery after central and peripheral nervous system injuries using biomaterials and stem cells. Following my PhD, I joined various laboratories as a postdoctoral researcher, which allowed me to continue my research while deepening my knowledge in cellular and molecular biology. I explored the effects of mesenchymal stem cells, as well as the role of the secretome and extracellular vesicles after spinal cord and peripheral nerve injuries. Currently, as a postdoctoral researcher at the “Dipartimento di Scienze Biomediche e Cliniche” of Università degli Studi di Milano, I am focusing on the standardization and automation of the production of the secretome from human bone marrow-derived stem cells, and its validation for pediatric use in treating inflammatory fibrosis in patients with childhood interstitial lung disease.

PROJECT ACTIVITY

Year	Project
2023	HORIZON ERC PoC, EU. NICHILD- “Feasibility of a secretome factory to treat paediatric interstitial lung disease” (101068512). Role in the project: Responsibility of experimental activities - post-doctoral fellow in open competition (70k€; UniMi Pi prof. Gloria Pelizzo).
2022	Neurogel en Marche Foundation, France. “Validation of novel therapeutic approaches to cure Spinal Cord Injury”. Collaboration between Aix-Marseille University (AMU) and University of Milan (UniMi). Role in the project: Responsibility of experimental activities - post-doctoral fellow (165 k€; UniMi Co-Pi Dr. Carelli & AMU Co-Pi Pr. Decherchi).
2022	Innovative and Collaborative Grant (ICR), France. “Repairing nerves with extracellular vesicles - nErVe”. Collaboration with “l’institut de Neurophysiopathologie > Aix-Marseille University. Role in the project: Co-Pi (20k€; co-Pi Prof. Feron).
2017-2020	Research contract with the “Fondation de l’Avenir”, TOURNESOL Project (Thérapie OUverte de Réparation Nerveuse avec des cellules Souches Olfactives), France. “Strategies for regenerating a traumatized peripheral nerve by adding a stent regrowth and olfactory ensheathing cells”. Role in the project: Responsibility of experimental activities (150 k€; Pi Prof. Feron)



CONGRESSES AND SEMINARS

Date	Title	Place
4 th October, 2022	Les mardis du rachis	Lausanne
22-24 th May, 2019	NeuroFrance 2019	Marseille
1 st June, 2018	Symposium « BCP12 »	Paris
3-4 th November, 2017	International Spinal Cord Repair Meeting	Barcelona
15-17 th September, 2016	Congress of Neuroscience “INT”	Marseille

Articles in reviews
Use of an autologous vein graft filled with extracellular vesicles derived from olfactory stem cells in sections with loss of peripheral nerve substance: a promising approach for nerve regeneration, submitted, 1 st author, 2024.
Activated Human Adipose Tissue Transplantation Promotes Sensorimotor Recovery after Acute Spinal Cord Contusion in Rats, Cells, 1 st author, 2024.
Efficacy of the immediate adipose-derived stromal vascular fraction autograft on functional sensorimotor recovery after spinal cord contusion in rats, Stem Cell Research & Therapy, 3 rd authors, 2024.
Human nasal olfactory stem cells, purified as advanced therapy medicinal products, improve neuronal differentiation ,Frontiers in Neuroscience, 1 st author, 2022.
Using olfactory stem cells for repairing peripheral nerves, Académie Nationale de Médecine, 8 th author, 2021.
Motor and Sensitive Recovery after Injection of a Physically Cross-Linked PNIPAAm-g-PEG Hydrogel in Rat Hemisectioned Spinal Cord, Materials Science & Engineering C, 1 st author, 2020.
Injection of a Physically Cross-Linked PNIPAAm-g-PEG Hydrogel in Rat Contused Spinal Cord, ACS Omega, 1 st author, 2020.
Immediate or Delayed Transplantation of a Vein Conduit Filled with Nasal Olfactory Stem Cells Improves Locomotion and Axogenesis in Rats after a Peroneal Nerve Loss of Substance, International Journal of Molecular Sciences, 1 st author, 2020.

OTHER INFORMATION

Animal experimentation authorization: Level 2.
Animal surgery authorization.



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: Milan, 16/09/2024