

Curriculum vitae

Lorenzo Brozzetti

06/10/1987;

Italian;

v. Carlo Alberto Dalla Chiesa, n.2,
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Education

September 2012 - October 2015

Master's Degree of research (MSc) in Pharmaceutical Biotechnology with the final vote:
110/110 *cum laude*.

October 2016 - Now

PhD in Neuroscience, Psychology and Psychiatry at the graduate School of Life and Health Sciences of the University of Verona. The study that I am developing, aims to deepen the research on the involvement of the human olfactory neuro-epithelium in the prion-like neurodegenerative disorders.

Occupation

November 2017 - Now

Research fellowship: "Study of neurodegeneration biomarkers in human olfactory neurons taken by nasal brushing". This project is focused on two aspects: the anatomy of the human olfactory neuro-epithelium, and the physio-pathology mechanisms that occur in this tissue during the neurodegeneration process.

November 2016 - November 2017

Research fellowship: "Experimentation of a clinical network for the diagnosis of rapidly progressive dementias". Regarding the working period I took part in the validation of methodological innovations for analytical studies with fluorescence immune-cyto-chemical tools, neuronal sorting by cyto-fluorimetry, neuronal cell cultures and in vitro amplification analysis of protein aggregates seeding associated with neurodegeneration by RT-QUIC.

January 2016- September 2016

Research associate at the University of Verona. The research project involves the study on human olfactory neuro-epithelium to develop a novel method for neurodegenerative diagnostic assays. The supervisor of the research is Prof. Gianluigi Zanuso.

Contact:

Prof. Gianluigi Zanuso

Università degli Studi di Verona ,

Piazzale L.A. Scuro, 10, 37134 Verona VR

0039 0458124285

gianluigi.zanuso@univr.it

January 2014 - December 2015

Research fellowship in Paris, at the LIED (Laboratoire Interdisciplinaire des Energies de Demain) jointly the University of Paris-7 Diderot and the Faculty of Pharmacy of the University of Paris-5 Descartes. In collaboration with the research team directed by Philippe Silar and the Pasteur Institute, I submitted the original research thesis: "Study of Glycotransferases GT-A2 subfamily and search for new mutants affected in the quorum sensing in the fungi *Aspergillus fumigatus* and *Podospora anserina*".

Contact:

Prof. Silar Philippe
Université Paris Diderot,
Sorbonne Paris Cité,
Institut des Energies de Demain (IED),
Paris, 75205, France
philippe.silar@univ-paris-diderot.fr

October 2013 - January 2014

Laboratory of Molecular Modelling aimed to drug design of NNRTIs (Non-Nucleoside Reverse Transcriptase Inhibitors) with an approach of rational drug discovery through the use of a structure-based pharmacophore models, molecular docking and virtual screening. The project was oriented to the search of new active molecules for the target 1FK9, involved for treatment of HIV infection, by a docking-based virtual screening of different databases.

Contact:

Dott. Barreca Maria Letizia
Università di Perugia
Dipartimento di Tecnologie del Farmaco
Via del Liceo 1, 06123 Perugia, Italia
0039 075 5855157
maria.barreca@unipg.it

March 2013 - September 2013

Training lab in the matter of Advanced Molecular Biology and supervised by prof. Beccari Tommaso, within the research team that the professor directs at the Department of Pharmaceutical Sciences in the University of Perugia.

Contact:

Prof. Beccari Tommaso
Università degli Studi di Perugia
Dipartimento di Scienze Farmaceutiche
Via Fabretti 48, 06123 Perugia, Italia
0039 075 5857907
tommaso.beccari@unipg.it

March 2011 – March 2012

Internship in the laboratory directed by prof. Galli Francesco at the Department of Internal Medicine sect. Applied Biochemistry and Nutrition Sciences, to work on and for drafting the original research thesis: "Effects of PhSeZnCl on cellular redox and GST π -dependent signaling".

Contact:

Prof. Galli Francesco
Università di Perugia
Dipartimento di Medicina interna
Sez. Biochimica Applicata e Scienze della Nutrizione
Via del Giochetto, 06126 - Perugia, Italy
0039 075 585 7445
francesco.galli@unipg.it

Competencies

Lab techniques: Western and Southern blotting; ELISA test; Genotyping; Genetic modifications for production of recombinant proteins and KO strains; Flow cytometry (FACS); PCR and its derivations; Chemical and biochemical analysis by spectrophotometry and HPLC; Immuno-Precipitation; Test for the evaluation of the gene expression as the Luciferase assay; Fluorescence microscopy; Bacterial, fungal, animal and human cell cultures;

English Ability: Spoken advanced; reading advanced; writing advanced.

French Ability: Spoken intermediate; reading advanced; writing basic.

Computer skills: Maestro, Pymol (Schrödinger); LigandScout (Royal Society of Chemistry); Swiss-Pdb viewer, Blast (NCBI); Serial cloner; Origin lab; Matlab (Mathworks).

Certificates

-International Summer School "Prion and Prion-like Neurodegenerative Disorders", September 2016

- 2ND IEEE Italy section summer school multiscale bioengineering: from molecules to organs, June 2016

-Member of the Organizing Committee of the International Summer School: "Neurodegenerative prion and prion disorders" 3rd Edition.

Publications:

"Expression of neurodegeneration associated-proteins in human olfactory mucosa" Lorenzo Brozzetti (1) *, Luca Sacchetto (2), Matilde Bongianni, Michele Fiorini, Dario Olivieri, Matteo Pedrazzoli, Mario Buffelli, Salvatore Monaco, Maurizio Pocchiari, Byron Caughey, Bernardino Ghetti, Gianluigi Zanusso. May 2018, PRION 2018, P126

"Neurodegeneration associated-proteins in human olfactory neurons "

Gianluigi Zanusso, Luca Sacchetto, Lorenzo Brozzetti, Dario Olivieri, Sergio Ferrari, Luca Faccioli, Matilde Bongianni, Matteo Pedrazzoli, Mario Buffelli, Salvatore Monaco, Maurizio Pocchiari, Byron Caughey and Bernardino Ghetti; February 2017, AAIC #18925

"Involvement of the Olfactory System in neurodegeneration"

Lorenzo Brozzetti*, Dario Olivieri, Luca Faccioli, Matteo Pedrazzoli, Mario Buffelli and Gianluigi Zanusso; February 2017, SINS National Meeting 2017, P40

Leisure

Chess, Tennis, Climbing, Reading, Journey

Data 17/05/2016

Firma del dichiarante

(firma non autenticata)

The undersigned, Lorenzo Brozzetti, declares that the data shown above are accurate and correspond to the truth. I authorize the processing of my personal and professional data pursuant to Law no. 196/2003.

