

Curriculum Vitae

Personal information

Surname / First name Ponterio Giulia

Address Via Vigne di Morena 82, 00118, Rome (Italy)

E-mail g.ponterio@hsantalucia.it

Nationality Italian

Date of birth 22/06/1984

Gender Female

Work experience

Dates From November 2010 (three years)

Name and address of “tutor” Prof. Antonio Pisani
Lab. of Neurophysiology and Plasticity, Santa Lucia Foundation, Rome, Italy

Position Title PhD student in Neuroscience Course (XXVI) at University of Rome “Tor Vergata”, Rome Italy

Current position Post Doc at University of Rome “Tor Vergata” and Lab. of Neurophysiology and Plasticity, Santa Lucia Foundation (Prof. A. Pisani), Rome Italy

Main techniques learned Manipulation of transgenic models animal, DNA extraction and PCR; synaptosomal preparation from mouse cerebral tissue (striatum and cerebellum), lysis and quantification of synaptosomes; Western Blotting; electrophysiological recording from slices of mouse cerebral tissue.

Publications

- 1. Ponterio G**, Tassone A, Sciamanna G, Riahi E, Vanni V, Bonsi P, Pisani A. (2013). “Powerful inhibitory action of mu opioid receptors (MOR) on cholinergic interneuron excitability in the dorsal striatum.” *Neuropharmacology*
- 2. Ponterio G.**, Schirinzi T., Alemseged F., Maltese M., Pisani A. (2012). “How relevant is the cholinergic system in DYT1 dystonia?” *Basal ganglia*
- 3. Sciamanna G***, **Ponterio G***, Tassone A, Maltese M, Madeo G, Martella G, Poli S, Schirinzi T, Bonsi P, Pisani A. (2014) “Negative allosteric modulation of mGlu5 receptor rescues striatal D2 dopamine receptor dysfunction in rodent models of DYT1 dystonia.” *Neuropharmacology*;85:440-50. doi: 10.1016/j.neuropharm.
- 4. Martella G**, Maltese M, Nisticò R, Schirinzi T, Madeo G, Sciamanna G, **Ponterio G**, Tassone A, Mandolesi G, Vanni V, Pignatelli M, Bonsi P, Pisani A. (2014). “Regional specificity of synaptic plasticity deficits in a knock-in mouse model of DYT1 dystonia.” *Neurobiol Dis.*;65:124-32. doi: 10.1016/j.nbd.2014.01.016.

5. Maltese M, Martella G, Madeo G, Fagiolo I, Tassone A, **Ponterio G**, Sciamanna G, Burbaud P, Conn PJ, Bonsi P, Pisani A.(2014). “Anticholinergic drugs rescue synaptic plasticity in DYT1 dystonia: Role of M1 muscarinic receptors.” *Mov Disord.* doi: 10.1002/mds.26009.Epub ahead of print.
6. Puglisi F., Vanni V., **Ponterio G.**, Tassone A., Sciamanna G, Bonsi P., Pisani A., Mandolesi G. (2013). “TorsinA localization in the mouse cerebellar synaptic circuitry” *PloS One*;8(6):e68063
7. Sciamanna G, Tassone A., Mandolesi G., **Ponterio G.**, Martella G, Puglisi F., Madeo G, Bernardi G., Standaert D., Bonsi P. and Pisani A.(2012). “Cholinergic dysfunction alters synaptic integration between thalamostriatal and corticostriatal inputs in DYT1 dystonia” *Journal of Neuroscience*;32(35):11991-2004.
8. Bonsi P., Cuomo D., Martella G, Madeo G, Schirinzi T., Puglisi F., **Ponterio G.** and Pisani A. (2011). “Centrality of striatal cholinergic transmission in basal ganglia function” *Frontiers in Neuroanatomy*, Vol. 5 Article 6.
9. Tassone A., Madeo G, Schirinzi T., Vita D., Puglisi F., **Ponterio G.**, Borsini F., Pisani A. and Bonsi P.(2011) “Activation of 5-HT6 receptor inhibits spontaneous glutamatergic transmission”. *Neuropharmacology*, 61(4):632-7
10. Sciamanna G, Tassone A., Martella G, Mandolesi G, Puglisi F., Cuomo D., Madeo G, **Ponterio G.**, Standaert DG, Bonsi P., Pisani A. (2011).”Developmental profile of the aberrant dopamine D2 receptor response in striatal cholinergic interneurons in DYT1 dystonia”.*PlosOne*; 6(9):e24261.

Communication and participation to congress

Francesca Puglisi, Giulia Ponterio, Georgia Mandolesi and Antonio Pisani. “Characterization of TorsinA in cerebellar synaptic circuitry in a mouse model of DYT1 dystonia”. VIII IBRO World Congress of Neuroscience, (Florence, July 2011). Dystonia Meeting (Roma, 2011, 2013), Dystonia Training School (Bol, settembre 2012). Poster presenter: SINS (Roma, October 2013); Neuroscience (SanDiego November 2013); FENS (Milan July 2014)

Work experience

Dates	February 2013- March 2013
Name and address of “tutor”	Prof. E.Bezard, Institut des Maladies Neurodegeneratives, Université Bordeaux 2, Bordeaux, France
Main technique learned	Co-immunoprecipitation technique

Work experience

Dates	September 2008- March 2010
Name and address of “tutor”	Prof. Silvia Biocca, Lab. of Immunotechnology and Clinical Biochemistry, Department of Neurosciece, University of Rome “Tor Vergata”, Rome, Italy
Main techniques learned	Western Blotting, protein quantification (Bradford Assay), ELISA, PCR, DNA fingerprinting , agarose gel electrophoresis, DNA extraction and purification, bacterial transformation and Molecular Cloning; “Phage-display” technology: Phage-ELISA, bacteriophages purification and titration, growing phage library, biopanning, isolation of anticorpal fragments from human phage library and expression of soluble anticorpal fragments (ScFv).

Activity performed Internship for graduation thesis in Medical Biotechnology

Work experience

Dates	May 2007- June 2007
Name and address of "tutor"	Prof. M.Piacentini Department of Molecular and Cell Biology, University of Rome "Tor Vergata", Rome, Italy
Activity performed	Internship for graduation thesis in Biotechnology
Scientific field of thesis	Autophagy

Education and training

Dates	2012 Session
Title of qualification awarded	Qualification as a professional biologist
Name and type of organisation providing education and training	University of Rome "Tor Vergata", Rome, Italy
Level in national or international classification	Biologist

Education and training

Dates	Academic year: 2010/2011-2012/2013
Title of qualification awarded	07/02/2014 PhD in Neuroscience
Principal subjects	Neurophysiology, Neuronal Plasticity, Molecular Biology, Pharmacology
Name and type of organisation providing education and training	University of Rome "Tor Vergata" and Santa Lucia Foundation, Rome, Italy
Level in national or international classification	PhD

Dates	Academic year: 2007/2008 - 2008/2009
Title of qualification awarded	Degree in Medical Biotechnology, 110/110 cum laude
Principal subjects	Cell and Molecular Biotechnology, Pharmacology and Toxicology, Virology, Microbiology, Medical Genetic
Name and type of organisation providing education and training	University of Rome "Tor Vergata", Rome, Italy
Level in national or international classification	II level degree in Medical Biotechnology (class 9/S)

Dates	Academic year: 2003/2004 – 2006/2007
Title of qualification awarded	Degree in Biotechnology, 98/110

Principal subjects Cell and Molecular Biology ,Biochemistry, Chemistry, Physiology

Name and type of organisation providing education and training University of Rome "Tor Vergata", Rome, Italy

Level in national or international classification I level degree in Biotechnology (class L-2)

Personal skills and competences

Mother tongue Italian

Other language
Self-assessment
European level (*)

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	

ENGLISH
Language

B2	C1	B2	B2	B2

(*) *Common European Framework of Reference (CEF) level*

Organisational skills and competences Excellent organisational skills and good management of team work

Computer skills and competences Internet, Microsoft Office (Word, Power Point, Excel). Adobe PhotoShop.

Driving licence Patent B

Rome, 30/09/2014 Giulia Ponterio

