

Personal details:

Marco Peviani - Fixed-term researcher - BIO/14 - Pharmacology

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Education:

June 5th 2010 - PhD in Life and Biomolecular Sciences (Open University, Milton Keynes, UK)

Thesis title: "Development of lentiviral vectors targeted to p38MAPK inhibition and Akt activation in motor neurons of a mouse model of familial Amyotrophic Lateral Sclerosis"

March 11th 2004 - Degree in Pharmaceutical Biotechnology cum laude (University of Milan, Milan, Italy)

Thesis title (translated from Italian): "Study of the role of Rai/PI3K/Akt pathway in a mouse model of familial Amyotrophic Lateral Sclerosis"

Professional experience:

2010-present: Post-doc fellow, Cellular and Molecular Pharmacology Lab., University of Pavia, Pavia

2005-2010: PhD Student, Molecular Neurobiology Lab, Dept Neuroscience, "Mario Negri" Institute, Milan

2005-2009: Visiting scientist, Molecular Oncology Lab, Centre for Experimental Medicine, "San Giovanni Battista" Hospital, Turin

2004-2005: Enrolled on civil service, Molecular Neurobiology Lab., Dept Neuroscience, "Mario Negri" Institute, Milan

Other experiences:

2012: Selected by Eurobioimaging network to conduct a "proof of concept" study at ALEMBIC advanced Imaging facility of San Raffaele Institute, Milan

2008: Invited lecturer for practical and lecture course: "Basic and advanced Immunohistochemistry techniques", Perkin Elmer.

2007: Participant to the FEBS-sponsored Practical and Lecture course: "Viral vectors for research and biotechnology". University of Tartu, Tartu. Estonia.

Professional Memberships:

2012- present: Invited peer reviewer for the Journal of Neuroscience Research

2011- present: Member of the Italian Society of Pharmacology

2007- present: Member of the Italian Society of Biochemistry and Molecular Biology

2005-2010: Animal Care referee for the Laboratory of Molecular Neurobiology, "Mario Negri" Institute for pharmacological research, Milan

Professional skills:

cell cultures, molecular biology techniques, design and development of recombinant viral vectors, biochemistry, immunohistochemistry, laser scanning and spinning disk confocal microscopy, behavioral tests on experimental models of neurodegenerative diseases (mouse and rat models of Motor Neuron

Disease, spinal cord injury, nerve crush injury and axotomy), surgical procedures in vivo, animal care procedures and breeding of transgenic rodent colonies.

#### Research activity

The research activity lies in the field of molecular neurobiology and neuropharmacology.

#### Main topic of research:

Study of the role played by Sigma-1 receptor alterations in motor neuronal degeneration in Amyotrophic Lateral Sclerosis (ALS). This project is aimed at: i) validation of Sigma-1 as a new molecular target in ALS and ii) identification and characterization of new selective Sigma-1 ligands for new potential therapeutic applications for ALS.

#### Other research interests:

- i) Study of molecular pathways involved in axon-reaction to stress and in axonal regeneration in Peripheral Neuropathies, Motor Neuron Diseases and Spinal Cord Injury.
- ii) Development and use of imaging tools to study neuronal plasticity and calcium dynamics in live cells and in vivo
- iii) Development and use of viral vectors (lentiviral vectors and adeno-associated viral vectors) for biotechnological applications