

FIORINI Silvia

Curriculum:

Education:

Degree in “technologies applied to biomedical laboratory diagnostics” at University of Urbino (Italy), vote 101/110, on December 17th 2012.

Degree in “Biomedical Laboratory Techniques”, University of Verona (Italy), vote 102/110, on November 11st 2004.

Diploma di Maturità Scientifica indirizzo biologico-salute (Secondary school certificate), Liceo L. Mondin, Verona, Italy, 2000 (vote: 73/100).

Professional experience:

January 2013

Ph. D. in Multimodal Imaging in biomedicine, department of SNNMM, laboratory of Human Anatomy and Histology (magnetic resonance) University of Verona.

February 2012

Annual contract “Manutenzione della strumentazione dedicata al trattamento e al monitoraggio degli animali che vengono utilizzati per ricerche in risonanza magnetica”, department of SNNMM, laboratory of Human Anatomy and Histology (magnetic resonance) University of Verona.

February 2011

Research grant “Sperimentazione in vivo di nanocomposti luminescenti con proprietà magnetiche tramite tecniche di risonanza magnetica”, department of SNNMM, laboratory of Human Anatomy and Histology (magnetic resonance) University of Verona.

October 2010

Fellowship (4 months) “Ruolo dei recettori metabotropici del glutammato in modelli sperimentali di sclerosi multipla”, in collaboration with University of Napoli.

February 2010

Research grant “Sperimentazione in vivo di nanocomposti luminescenti con proprietà magnetiche tramite tecniche di risonanza magnetica”, department of SNNMM, laboratory of Human Anatomy and Histology (magnetic resonance) University of Verona.

February 2009

Annual research grant “Homing e destino di isole pancreatiche e cellule staminali mesenchimali trapiantate nel ratto studiati in vivo tramite tomografia a risonanza magnetica e imaging ottico” department of SNNMM, laboratory of Human Anatomy and Histology (magnetic resonance) University of Verona.

February 2008

Annual fellowship “Implementazione di tecniche di fMRI in animali da laboratorio: controllo fisiologico dell’animale”, department of SNNMM, laboratory of Human Anatomy and Histology (magnetic resonance) University of Verona.

February 2007

Annual fellowship “ Marcaggio di isole pancreatiche e cellule staminali con probes rivelabili alla risonanza magnetica o all’imaging ottico”, department of SNNMM, laboratory of Human Anatomy and Histology (magnetic resonance) University of Verona

February 2006

Annual fellowship “tecniche di neuroimaging basate sull’uso del manganese (MEMRI manganese enhanced MRI)”, department of SNNMM, laboratory of Human Anatomy and Histology (magnetic resonance) University of Verona.

2004-2005

Stages in the department of SNNMM, laboratory of Human Anatomy and Histology (magnetic resonance) University of Verona.

Quarterly Employment contract in the laboratory of Pathological Anatomy and Histology (University of Verona).

Stages in the laboratory of Pathological Anatomy and Histology (University of Verona).

2004

Graduation thesis “Valutazione di due nuovi marcatori nella caratterizzazione immunofenotipica dei Linfomi T: Mum 1 e Zap 70”, supervised by Prof. Chilosi, Laboratory of Immunohistochemistry, Pathological Anatomy and Histology (University of Verona).

Knowledge of Instruments and work activity:

Tomografo MRI a 4.7 T.

Immunohistochemical and Histological technique; samples preparation.

Olympus optical microscope.

Animal handling and preparation, experiment execution.

Knowledge of Languages:

Italian, English.

Publications:

Boschi F, Marzola P, Sandri M, Nicolato E, Galiè M, Fiorini S, Merigo F, Lorusso V, Chaabane L, Sbarbati A. Tumor microvasculature observed using different contrast agents: a comparison between Gd-DTPA-Albumin and B-22956/1 in an experimental model of mammary carcinoma. MAGMA. 2008 May;21(3):169-76. Epub 2008 Mar 4.

Marzola P, Longoni B, Szilagyi E, Merigo F, Nicolato E, Fiorini S, Paoli GT, Benati D, Mosca F, Sbarbati A. In vivo visualization of transplanted pancreatic islets by MRI: comparison between in vivo, histological and electron microscopy findings. *Contrast Media Mol Imaging*. 2009 May;4(3):135-42.

Farace P, Merigo F, Fiorini S, Nicolato E, Tambalo S, Daducci A, Degrassi A, Sbarbati A, Rubello D, Marzola P. DCE-MRI using small-molecular and albumin-binding contrast agents in experimental carcinomas with different stromal content. *Eur J Radiol*. 2009 May 12.

Galiè M, Farace P, Merigo F, Fiorini S, Tambalo S, Nicolato E, Sbarbati A, Marzola P., Washout of small molecular contrast agent in carcinoma-derived experimental tumors. *Microvasc Res*. 2009 Dec;78(3):370-8.

Tambalo S, Daducci A, Fiorini S, Boschi F, Mariani M, Marinone M, Sbarbati A, Marzola P. Experimental protocol for activation-induced manganese-enhanced MRI (AIM-MRI) based on quantitative determination of Mn content in rat brain by fast T1 mapping. *Magn Reson Med*. 2009 Oct;62(4):1080-4.

Mosconi E, Fontanella M, Sima DM, Van Huffel S, [Fiorini S](#), Sbarbati A, [Marzola P](#)."Investigation of adipose tissues in Zucker rats using in vivo and ex vivo magnetic resonance spectroscopy." *J Lipid Res*. 2011 Feb;52(2):330-6. Epub 2010 Nov 22.

Farace P, Tambalo S, [Fiorini S](#), Merigo F, Daducci A, Nicolato E, Conti G, Degrassi A, Sbarbati A, [Marzola P](#). "Early versus late GD-DTPA MRI enhancement in experimental glioblastomas". *J Magn Reson Imaging*. 2011 Mar;33(3):550-6. doi: 10.1002/jmri.22472.

Gozzi A, Colavito V, Seke Etet P, Montanari D, Fiorini S, Tambalo S, Bifone A, Grassi Zucconi G, Bentivoglio M. "Modulation of fronto-cortical activity by modafinil: a functional imaging and fos study in the rat". *Neuropsychopharmacology* (2012) 37, 822-837.

## Abstract

A.Fenzi, D.Ventura, S.Fiorini, F.Merigo, P.Marzola; Morphological and Biomedical Sciences, University of Verona, Verona, Italy. MRI investigation of liver and myocardium iron overload induced by iron-rich feeding in rats. 23<sup>rd</sup> Annual Scientific meeting Warsaw/PL, Sept. 21-23, 2006.

S.Tambalo, S.Fiorini, A.Daducci, F.Boschi, E.Nicolato, P.Marzola; Morphological and Biomedical Sciences, University of Verona, Verona, Italy. Quantitative determination of Mn content in rat brain by fast T1 mapping. Annual meeting ISMRM-ESMRMB, Berlin 19-25 May 2007.

ESMRMB Annual Meeting, Antalya TURKEY; Electronic Poster: Tambalo S, Fiorini S, Daducci A, Fattoretti P, Balialetti M, Zancanaro C, Marzola P, "fMRI in aging: an experimental study in rats"; 2009.

AISM/FISM Annual Meeting, Roma; Poster: Del Carro U, Fiorini S, Marzola P, Nicolato E, Pluchino S, Sbarbati A, Tambalo S, Ungaro D, "Functional MRI to study brain plasticity in experimental MS", 2008

AISM/FISM Annual Meeting, Roma; Poster: Tambalo S, Fiorini S, Del Carro U, Ungaro D, Pluchino S, Marzola P, "Functional MRI to study brain plasticity in experimental MS", 2009

ISMRM Annual Meeting, poster: E. Mosconi, M. Pellitteri, F. Schio, R. Lodico, L. Zanetti, S. Fiorini, E. Nicolato, P.F. Fabene, and P. Marzola, "T2 relaxation and 1H-MRS in an early stage of pilocarpine induced SE", 2009.

ISMRM Italian chapter, Milano: Daducci A., Sonato N., Fiorini S., Tambalo S., Balietti M., Fattoretti P., Sbarbati A., Marzola P., "MRI characterization of brain aging: an experimental study in animals.", 2010.

Bruker biospin Italian MRI users' meeting, Torino: Tambalo S., Daducci A., Fiorini S., Sonato N., Balietti M., Fattoretti P., Sbarbati A., Marzola P., "MRI investigation on aged brain", 2010.

ISMRM Roma 2011: Tambalo S, Mosconi E, Daducci A, Fiorini S, Balietti M, Fattoretti P, Sbarbati A, Marzola P, "DTI and MRS in the preclinical model of aging".

ISMRM Lisbona 2012: Tambalo S, Mosconi E, Fiorini S, Marzola P, "Normal Brain Aging Investigation".