

Marco Bozzali

Luogo e data di nascita: Bergamo, 22 novembre 1969.
Indirizzo: Neuroimaging Laboratory
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FORMAZIONE SCOLASTICA:

1997: Laurea in Medicina e Chirurgia, ottenuta presso l'Università degli Studi di Milano
2003: Specializzazione in Neurologia, ottenuta presso l'Università degli Studi di Milano

ESPERIENZA PROFESSIONALE**A) ATTIVITA' CLINICO-ASSISTENZIALE**

2009: Contratto a tempo indeterminato di Dirigente Medico presso la Fondazione Santa Lucia di Roma, per lo svolgimento di attività assistenziale presso il reparto di Neurologia Clinica e Comportamentale e di attività di ricerca.
2006-2009: Contratto a tempo determinato di Dirigente Medico presso la Fondazione Santa Lucia di Roma, per lo svolgimento di attività assistenziale presso il reparto di Neurologia Clinica e Comportamentale e di attività di ricerca.
2004-2006: Contratto di Assistente Neurologo ('Honorary Appointment as Clinical Assistant') presso il Dipartimento di Neurologia del "National Hospital for Neurology and Neurosurgery", University College London, London, U.K.
2001-2003: Attività clinica svolta presso il Dipartimento di Neuroriusaibilitazione dell' IRCCS Fondazione Don Carlo Gnocchi ONLUS di Milano, comprensiva di: attività di reparto; attività di Day Hospital e ambulatoriale.
1998-2001: Attività clinica svolta presso il Dipartimento di Neurologia dell'Ospedale San Raffaele di Milano, comprensiva di: attività di reparto; ambulatorio sclerosi multipla; partecipazione a trial clinici farmacologici nell'ambito della sclerosi multipla.
1995-1998: Tirocinio pratico ospedaliero presso la Clinica Neurologica Universitaria dell'Ospedale Maggiore di Milano.

B) ATTIVITA' DI RICERCA

2006- presente: Direzione del gruppo di ricerca sulle applicazioni cliniche mediante 'neuroimaging' presso il Laboratorio di Neuroimmagini della Fondazione Santa Lucia di Roma.
2004-2006: Contratto in qualità di "Clinical Research Fellow" (sponsorizzato dalla "Wellcome Trust") presso lo "Institute of Cognitive Neuroscience", University College of London, London, UK, con un progetto dal titolo "Reconciling imaging and neuropsychological studies in the control of memory processes".
2004: Incarico di collaborazione professionale con rapporto di lavoro autonomo per attività di ricerca presso la Fondazione Don Carlo Gnocchi ONLUS di Milano nell'ambito della ricerca finalizzata 2002 F022041-31504 dal titolo "Ruolo dei Meccanismi citotossici nelle patologie neurodegenerative" e della ricerca finalizzata 2003 F031701-31504 dal titolo "Correlazioni clinico-biologiche nella Malattia di Parkinson"
2003: Incarico professionale a scopo di ricerca presso il reparto di Neuroradiologia dell'Ospedale San Raffaele di Milano, in merito ad un programma di ricerca dal titolo "Tecniche avanzate di Risonanza Magnetica applicate alla malattia di Alzheimer".
1999: Partecipazione in qualità di 'investigator' al trial farmacologico "Coral", promosso dalla TEVA 'Pharmaceutical Industries', finalizzato alla valutazione, mediante criteri clinici e di Risonanza Magnetica, dell'efficacia del Copolimero I somministrato per via orale nel trattamento della sclerosi multipla
1998-2003: Ricerca nell'ambito della Risonanza Magnetica Nucleare *in vivo* presso la "Neuroimaging Research Unit" del Dipartimento di Neurologia dell'Ospedale San Raffaele di Milano. Tale attività si è basata principalmente sull'utilizzo di tecniche di Risonanza Magnetica non convenzionali (Spettroscopia Protonica; 'Diffusion Tensor Imaging'; 'Magnetization Transfer Imaging') applicate alla Sclerosi Multipla, alle Demenze e ad altre patologie di interesse neurologico. E' inoltre degna di nota la partecipazione all'acquisizione e all'analisi di dati nell'ambito di 'trial' farmacologici nella sclerosi multipla.
1997: Partecipazione allo staff di ricerca per il progetto promosso dall'Organizzazione Telethon, intitolato "Brain energetics under resting and activated conditions in mitochondrial myopathies without clinical signs of central nervous system involvement: a magnetic resonance spectroscopy study".
1995-1998: Ricerca nell'ambito della Spettroscopia a Risonanza Magnetica Nucleare *in vivo* presso la Clinica Neurologica Universitaria dell'Ospedale Maggiore di Milano, principalmente indirizzata allo studio dell'energetica cerebrale e muscolare con applicazione clinica a pazienti affetti da malattie mitocondriali.

FINANZIAMENTI OTTENUTI

2007-2009: Finanziamento ottenuto dal Ministero Italiano della Salute (262.390,00 Euro) per lo svolgimento di un programma di ricerca intitolato: "The role of structural and functional non-conventional MR techniques in the early diagnosis of the two main forms of degenerative dementia: Alzheimer's disease and dementia with Lewy bodies".
09/10-08/13: Finanziamento ottenuto dal Ministero Italiano della Salute nell'ambito del programma 'Giovani Ricerca 2008' (450.000,00 Euro), per un programma di ricerca della durata di tre anni, intitolato "A longitudinal MRI investigation of patients with mild cognitive impairment using structural and functional techniques to identify biomarkers of diagnostic and prognostic value".

PREMIAZIONI

2001: Assegnazione del premio “De Visart” “con il merito di aver fatto progredire le ricerche scientifiche tanto da ottenere la possibilità di cure con effetti favorevoli alla guarigione della sclerosi a placche” (2500 Euro).

2002: Premio per la presentazione del miglior poster al XXXIX congresso della Società Italiana di Neurologia. (500 Euro).

LAVORI PUBBLICATI SU RIVISTE INTERNAZIONALI RECENSITE DAL “CURRENT CONTENTS”

- Rovaris M, **Bozzali M**, Rodegher M, Tortorella C, Comi G, Filippi M. Brain MRI correlates of magnetization transfer imaging metrics in patients with multiple sclerosis. *J Neurol Sci* 1999;166: 58-63.
- Filippi M, Tortorella C, **Bozzali M**. Normal-appearing white matter changes in multiple sclerosis: the contribution of magnetic resonance techniques. *Mult Scler* 1999;5:273-282.
- **Bozzali M**, Rocca MA, Iannucci G, Pereira C, Comi G, Filippi M. Magnetization transfer histogram analysis of the cervical cord in patients with multiple sclerosis. *AJNR Am J Neuroradiol* 1999;20:1803-1808.
- Tortorella C, Viti B, **Bozzali M**, Sormani MP, Rizzo G, Gilardi MC, Comi G, Filippi M. A magnetization transfer histogram study of normal appearing brain tissue in multiple sclerosis. *Neurology* 2000;54:186-193.
- Filippi M, **Bozzali M**, Horsfield MA, Rocca MA, Sormani MP, Iannucci G, Colombo B, Comi G. A conventional and magnetization transfer MRI study of the cervical cord in patients with multiple sclerosis. *Neurology* 2000;54:207-213.
- Filippi M, Tortorella C, Rovaris M, **Bozzali M**, Possa F, Sormani MP, Iannucci G, Comi G. Changes in the normal-appearing brain tissue and cognitive impairment in multiple sclerosis. *J Neurol Neurosurg Psychiatry* 2000;68:157-161.
- Ferini Strambi L, **Bozzali M**, Cercignani M, Oldani A, Zucconi M, Filippi M. Magnetization transfer and diffusion-weighted imaging in nocturnal frontal lobe epilepsy. *Neurology* 2000;54:2331-2333.
- Rovaris M, **Bozzali M**, Santuccio G, Iannucci G, Sormani MP, Colombo B, Comi G, Filippi M. Relative contributions of brain and cervical cord pathology to MS disability: a study with MTR histogram analysis. *J Neurol Neurosurg Psychiatry* 2000;69:723-727.
- Rovaris M, **Bozzali M**, Rocca MA, Colombo B, Filippi M. An MR study of tissue damage in the cervical cord of patients with migraine. *J Neurol Sci* 2001;183:43-46.
- Filippi M, **Bozzali M**, Comi G. Magnetization transfer and diffusion tensor MR imaging of basal ganglia from patients with multiple sclerosis. *J Neurol Sci* 2001;183:69-72.
- Cercignani M, **Bozzali M**, Iannucci G, Comi G, Filippi M. Magnetisation transfer ratio and mean diffusivity of normal-appearing white and gray matter from patients with multiple sclerosis. *J Neurol Neurosurg Psychiatry* 2001;70:311-317.
- Rango M, **Bozzali M**, Prelle A, Scarlato G, Bresolin N. Brain activation in normal subjects and in patients affected by mitochondrial disease without clinical central nervous system involvement: a phosphorus magnetic resonance spectroscopy study. *J Cereb Blood Flow Metab* 2001;21:85-91.
- **Bozzali M**, Franceschi M, Falini A, Pontesilli S, Cercignani M, Magnani G, Scotti G, Comi G, Filippi M. Quantification of tissue damage in AD using diffusion tensor and magnetization transfer MRI. *Neurology* 2001;57:1135-1137.
- Rovaris M, **Bozzali M**, Santuccio G, Ghezzi A, Caputo D, Montanari E, Bertolotto A, Bergamaschi R, Capra R, Mancardi G, Martinelli V, Comi G, Filippi M. In vivo assessment of the brain and cervical cord pathology of patients with primary progressive multiple sclerosis. *Brain* 2001;124:2540-2549.
- **Bozzali M**, A Falini, Franceschi M, Cercignani M, Zuffi M, Scotti G, Comi G, Filippi M. White matter damage in Alzheimer's disease assessed in vivo using diffusion tensor magnetic resonance imaging. *J Neurol Neurosurg Psychiatry* 2002;72:742-746.
- **Bozzali M**, Cercignani M, Sormani MP, Comi G, Filippi M. Quantification of brain gray matter damage in different MS phenotypes using diffusion tensor MR imaging. *AJNR Am J Neuroradiol* 2002;23:985-988.
- Cercignani M, **Bozzali M**, Iannucci G, Comi G, Filippi M. Intra-voxel and inter-voxel coherence in patients with multiple sclerosis assessed using diffusion tensor MRI. *J Neurol* 2002;249:875-883.
- Rovaris M, **Bozzali M**, Iannucci G, Ghezzi A, Caputo D, Montanari E, Bertolotto A, Bergamaschi R, Capra R, Mancardi GL, Martinelli V, Comi G, Filippi M. Assessment of normal-appearing white and gray matter in patients with primary progressive multiple sclerosis: a diffusion-tensor magnetic resonance imaging study. *Arch Neurol* 2002;59:1406-1412.
- Filippi M, **Bozzali M**, Rovaris M, Gonon O, Kesavadas C, Ghezzi A, Martinelli V, Grossman RI, Scotti G, Comi G, Falini A. Evidence of widespread axonal damage at the earliest clinical stage of multiple sclerosis. *Brain* 2003;126:433-437.
- Rovaris M, Gallo A, Riva R, Ghezzi A, **Bozzali M**, Benedetti B, Martinelli V, Falini A, Comi G, Filippi M. An MT MRI study of the cervical cord in clinically isolated syndromes suggestive of MS. *Neurology* 2004;63:584-585.
- **Bozzali M**, Falini A, Cercignani M, Baglio F, Farina E, Alberoni M, MD, Pezzulli P, Olivotto F, Mantovani F, Shallice T, Scotti G, Canal N, Nemni R. Brain tissue damage in dementia with Lewy bodies: an in vivo diffusion tensor MRI study. *Brain* 2005;128:1596-1604.
- Falini A, **Bozzali M**, Magnani G, Pero G, Gambini A, Benedetti M, Mossini R, Franceschi M, Comi G, Scotti G, Filippi M. A whole brain MR spectroscopy study from patients with Alzheimer's disease and mild cognitive impairment. *Neuroimage* 2005;26:1159-1163.
- **Bozzali M**, Filippi M, Magnani G, Cercignani M, Franceschi M, Schiatti E, Castiglioni S, Mossini R, Falautano M, Scotti G, Comi G, Falini A. The contribution of voxel based morphometry in staging patients with mild cognitive impairment. *Neurology* 2006;67:453-460.
- **Bozzali M**, MacPherson SE, Dolan R.J, Shallice T. Left prefrontal cortex control of novel occurrences during recollection: a psychopharmacological study using scopolamine and event-related fMRI. *NeuroImage* 2006;33:286-295
- Carlesimo A, Serra L, Fadda L, Cherubini A, **Bozzali M**, Caltagirone C. Bilateral damage of the mammillo-thalamic tract impairs recollection but not familiarity in the recognition process: a single case investigation. *Neuropsychologia* 2007;18:2467-2479

- **Bozzali M**, Cherubini A. Diffusion tensor MRI to investigate dementias: a brief review. *Magn Reson Imaging* 2007;25:969-977
- **Bozzali M**, Cercignani M, Baglio F, Scotti G, Farina E, Pugnetti L, Ashburner J, Nemni R, Falini A. Voxel-wise analysis of diffusion tensor MRI improves the confidence of diagnosis of corticobasal degeneration non invasively. *Parkinsonism Relat Disord* 2008;14:436-439.
- **Bozzali M**, Cercignani M, Caltagirone C. Brain volumetrics to investigate aging and the principal forms of degenerative cognitive decline: a brief review. *Magn Reson Imaging* 2008;26:1065-1070.
- MacPherson SE, **Bozzali M**, Cipolotti L, Dolan RJ, Rees JH, Shallice T. Effect of frontal lobe lesions on the recollection and familiarity components of recognition memory. *Neuropsychologia* 2008;46:3124-3132.
- Di Paola M, **Bozzali M**, Fadda L, Musicco M, Sabatini, U, Caltagirone C. Reduced oxygen due to high-altitude exposure relates to atrophy in motor-function brain areas. *Eur J Neurol* 2008;15:1050-1057.
- Capuani S, Gili T, **Bozzali M**, Russo S, Porcari P, Cametti C, D'Amore E, Colasanti M, Venturini G, Maraviglia B, Lazzarino G, Pastore FS. L-DOPA preloading increases the uptake of boronophenylalanine in C6 glioma rat model: a new strategy to improve BNCT efficacy. *Int J Radiat Oncol Biol Phys* 2008;72:562-567.
- Menghini D, Hagberg G, Petrosini L, **Bozzali M**, Macaluso E, Caltagirone C, Vicari S. Structural correlates of implicit learning deficits in subjects with developmental dyslexia. *Ann N Y Acad Sci* 2008;1145:212-221.
- Fasano F, **Bozzali M**, Cercignani M, Hagberg GE, Fasano F, **Bozzali M**, Cercignani M, Hagberg GE. A highly sensitive radial diffusion measurement method for white matter tract investigation. *Magn Reson Imaging* 2009;27:519-530.. *Magn Reson Imaging*. 2009;27:519-530
- Baglio F, Blasi V, Falini A, Farina E, Mantovani F, Olivotto F, Scotti G, Nemni R, **Bozzali M**. Functional brain changes in early Parkinson's disease during motor response and motor inhibition. *Neurobiol Aging* 2011;32:115-124.
- Clausi S, **Bozzali M**, Leggio MG, Di Paola M, Hagberg GE, Caltagirone C, Molinari M. Quantification of gray matter changes in the cerebral cortex after isolated cerebellar damage: a voxel-based morphometry study. *Neuroscience* 2009;162:827-835.
- Cercignani M, Basile B, Spanò B, Comanducci G, Fasano F, Caltagirone C, Nocentini U, **Bozzali M**. Investigation of quantitative magnetization transfer parameters of lesions and normal appearing white matter in multiple sclerosis. *NMR Biomedicine* 2009;22:646-653.
- Capuani S, Gili T, **Bozzali M**, Russo S, Porcari P, Cametti C, Muolo M, D'Amore E, Maraviglia B, Lazzarino G, Pastore FS. Boronophenylalanine uptake in C6 glioma model is dramatically increased by l-DOPA preloading. *Appl Radiat Isot* 2009;67:S34-36.
- Serra L, Cercignani M, Lenzi D, Perri R, Fadda F, Caltagirone C, Macaluso E, **Bozzali M**. Grey and white matter changes at different stages of Alzheimer's disease. *J Alzheimers Dis* 2010;19:147-159.
- Raz E, Cercignani M, Sbardella E, Totaro P, Pozzilli C, **Bozzali M**, Pantano P. Voxelwise regional investigation of white and grey matter in clinically isolated syndrome suggestive of multiple sclerosis. *Radiology* 2010;254:227-234.
- Serra L, **Bozzali M**, Cercignani M, Perri R, Fadda L, Caltagirone C, Carlesimo GA. Recollection and familiarity in amnesic mild cognitive impairment. *Neuropsychology* 2010;24:316-326.
- Lenzi D, Serra L, Perri R, Pantano P, Lenzi GL, Paulesu E., Caltagirone C, **Bozzali M**, Macaluso E. Single domain amnesic MCI: a multiple cognitive domains fMRI investigation. *Neurobiol Aging* 2011;32:1542-1557.
- Spanò B, Cercignani M, Basile B, Romano S, Mannu R, Centone D, Caltagirone C, Bramanti P, Nocentini U, **Bozzali M**. Multiparametric MR investigation of the motor pyramidal system in patients with "truly benign" MS. *Mult Scler*. 2010;16:178-188.
- Basile B, Mancini F, Macaluso E, Caltagirone C, Frackowiak RSJ, **Bozzali M**. Neural correlates of deontological and altruistic guilt. *Hum Brain Mapp* 2011;32:229-23.
- Robinson G, Shallice T, **Bozzali M**, Cipolotti L. Conceptual proposition selection and the LIFG: Neuropsychological evidence from a focal frontal group. *Neuropsychologia* 2010;48:1652-1663.
- Koch G, Cercignani M, Pecchioli C, Oliveti M, Caltagirone C, Rothwell J, **Bozzali M**. In vivo definition of parieto-motor connections involved in planning of grasping movements. *Neuroimage* 2010;15:300-312.
- Serra L, Perri R, Cercignani M, Spanò B, Fadda L, Marra C, Carlesimo GA, Caltagirone C, Bozzali M. Are the behavioral symptoms of Alzheimer's disease directly associated with neurodegeneration? *J Alzheimers Dis* 2010;21:627-639.
- Scola E, **Bozzali M**, Agosta F, Magnani G, Franceschi M, Sormani MP, Cercignani M, Pagani E, Falautano M, Filippi M, Falini A. A diffusion tensor MRI study of patients with MCI and AD with a 2-year clinical follow-up. *J Neurol Neurosurg Psychiatry* 2010;81:798-805.
- Gili T, Cercignani M, Serra L, Perri R, Giove F, Maraviglia B, Caltagirone C, **Bozzali M**. Regional brain atrophy and functional disconnection across Alzheimer's disease evolution. *J Neurol Neurosurg Psychiatry* 2011;82:58-66.
- Raz E, Cercignani M, Sbardella E, Totaro P, Pozzilli C, **Bozzali M**, Pantano P. Gray- and white-matter changes 1 year after first clinical episode of multiple sclerosis: MR imaging. *Radiology* 2010; 257:448-454.
- MacPherson SE, Turner M, **Bozzali M**, Cipolotti L, Shallice T. Frontal subregions mediating Elevator Counting Task performance. *Neuropsychologia* 2010;48:3679-682.
- **Bozzali M**, Parker GJM, Serra L, Embleton K, Gili T, Perri R, Caltagirone C, Cercignani M. Anatomical connectivity mapping: how to combine structural and functional information. *NeuroImage* 2011;54:2045-2051.
- De Santis S, Gabrielli A, **Bozzali M**, Maraviglia B, Macaluso E, Capuani S. Anisotropic Anomalous Diffusion assessed in the human brain by scalar invariant indexes. *Magn Reson Med* 2011;65:1043-1052.

- Torelli F, Moscufo N, Garreffa G, Placidi F, Romigi A, Zannino S, **Bozzali M**, Fasano F, Giulietti G, Djonlagic I, Malhotra A, Marciani MG, Guttmann CRG. Cognitive profile and brain morphological changes in obstructive sleep apnoea. *Neuroimage* 2011;54:787-793.
- Serra L, Cercignani M, Petrosini L, Perri R, Fadda L, Spanò B, Marra C, Giubilei F, Carlesimo GA, Caltagirone C, **Bozzali M**. Neuroanatomical correlates of cognitive reserve in Alzheimer's disease. *Rejuvenation Res* 2011 Apr;14:143-151.
- Menghini D, Di Paola M, Federico F, Vicari S, Petrosini L, Caltagirone C, **Bozzali M**. Relationship between brain abnormalities and cognitive profile in Williams syndrome. *Behav Genet* 2011;41:394-402.
- Carlesimo GA, Costa A, Serra L, **Bozzali M**, Fadda L, Caltagirone C. Prospective memory in thalamic amnesia. *Neuropsychologia*. 2011;49:2199-2208
- **Bozzali M**, Giulietti G, Basile B, Spanò B, Serra L, Perri R, Giubilei F, Marra C, Caltagirone C, Cercignani M. Damage to the cingulate bundle contributes to Alzheimer's disease evolution by deafferentation mechanism. *Hum Brain Mapp* 2011 Apr 21. [Epub ahead of print]
- Koch G, Cercignani M, Bonnì S, Bucchi G, Versace V, Giacobbe V, Caltagirone C, **Bozzali M**. Asymmetry of parietal interhemispheric connections in humans. *J Neurosci* 2011;31:8967-8975.
- **Bozzali M**, Padovani A, Caltagirone C, Borroni B. Regional grey matter loss and brain disconnection across Alzheimer Disease evolution. *Curr Med Chem* 2011;18:2452-2458.
- Filippi M, Agosta F, Frisoni GB, De Stefano N, Bizzi A, **Bozzali M**, Falini A, Rocca MA, Sorbi S, Caltagirone C, Tedeschi G. Magnetic resonance imaging in Alzheimer's disease: from diagnosis to monitoring treatment effect. *Curr Alzheimer Res* 2012 Apr 19. [Epub ahead of print]
- Koch G, Bonnì S, Giacobbe V, Bucchi G, Basile B, Lupo F, Versace V, **Bozzali M**, Caltagirone C. Theta burst stimulation of the intact hemisphere accelerates recovery of post-stroke hemispatial neglect. *Neurology* 2012;78:24-30.
- Giulietti G, **Bozzali M**, Figura V, Perri R, Caltagirone C, Marra C, Giubilei F, Cercignani M. Quantitative magnetization transfer provides information complementary to grey matter atrophy in Alzheimer's disease brains. *Neuroimage*. 2012;59:1114-1122.
- Serra L, Cercignani M, Spanò B, Perri R, Fadda L, Marra C, Giubilei F, Caltagirone C, **Bozzali M**. White Matter Damage along the Uncinate Fasciculus Contributes to Cognitive Decline in AD and DLB. *Curr Alzheimer Res Curr Alzheimer Res* 2012;9:326-333.
- Borroni B, Alberici A, Cercignani M, Premi E, Serra L, Cerini C, Cosseddu M, Pettinati C, Turla M, Archetti S, Gasparotti R, Caltagirone C, Padovani A, **Bozzali M**. Progranulin mutation drives brain damage and reorganization from preclinical to symptomatic FTLD. *Neurobiol Aging*. 2011 Nov 28. [Epub ahead of print].
- Basile B, Bassi A, Calcagnini G, Caltagirone C, Macaluso E, Cortelli P, **Bozzali M**. Direct stimulation of the autonomic nervous system modulates brain activity and cognition. *Hum Brain Mapp* 2012 Feb 27. [Epub ahead of print]
- Cercignani M, Embleton K, Parker GJM, **Bozzali M**. Group-averaged anatomical connectivity mapping for improved human white matter pathway visualisation. *NMR Biomed* 2012 Mar 21. [Epub ahead of print]
- Preti MG, Baglio F, Laganà MM, Griffanti L, Nemni R, Clerici M, **Bozzali M**, Baselli G. Assessing Corpus Callosum Changes in Alzheimer's Disease: Comparison between Tract-Based Spatial Statistics and Atlas-Based Tractography. *PLoS One* (in press)
- **Bozzali M**, Parker GJM, Spanò B, Serra L, Giulietti G, Perri R, Magnani G, Marra C, Vita MG, Caltagirone C, Cercignani Mara. Brain tissue modifications induced by cholinergic therapy in Alzheimer's disease. *Hum Brain Mapp* (in press).

Publications: peer-reviewed journals

- **Bozzali M**, Filippi M, Magnani G, Cercignani M, Franceschi M, Schiatti E, Castiglioni S, Mossini R, Falautano M, Scotti G, Comi G, Falini A. The contribution of voxel based morphometry in staging patients with mild cognitive impairment. *Neurology* 2006;67:453-460.
- **Bozzali M**, MacPherson SE, Dolan R.J, Shallice T. Left prefrontal cortex control of novel occurrences during recollection: a psychopharmacological study using scopolamine and event-related fMRI. *Neuroimage* 2006;33:286-295.
- Carlesimo A, Serra L, Fadda L, Cherubini A, **Bozzali M**, Caltagirone C. Bilateral damage of the mammillo-thalamic tract impairs recollection but not familiarity in the recognition process: a single case investigation. *Neuropsychologia* 2007;18:2467-2479.
- **Bozzali M**, Cherubini A. Diffusion tensor MRI to investigate dementias: a brief review. *Magn Reson Imaging* 2007;25:969-977.
- **Bozzali M**, Cercignani M, Baglio F, Scotti G, Farina E, Pugnetti L, Ashburner J, Nemni R, Falini A. Voxel-wise analysis of diffusion tensor MRI improves the confidence of diagnosis of corticobasal degeneration non invasively. *Parkinsonism Relat Disord* 2008;14:436-439.
- **Bozzali M**, Cercignani M, Caltagirone C. Brain volumetrics to investigate aging and the principal forms of degenerative cognitive decline: a brief review. *Magn Reson Imaging* 2008;26:1065-1070.
- MacPherson SE, **Bozzali M**, Cipolotti L, Dolan RJ, Rees JH, Shallice T. Effect of frontal lobe lesions on the recollection and familiarity components of recognition memory. *Neuropsychologia* 2008;46:3124-3132.
- Di Paola M, **Bozzali M**, Fadda L, Musicco M, Sabatini, U, Caltagirone C. Reduced oxygen due to high-altitude exposure relates to atrophy in motor-function brain areas. *Eur J Neurol* 2008;15:1050-1057.
- Capuani S, Gili T, **Bozzali M**, Russo S, Porcari P, Cametti C, D'Amore E, Colasanti M, Venturini G, Maraviglia B, Lazzarino G, Pastore FS. L-DOPA preloading increases the uptake

- of borophenylalanine in C6 glioma rat model: a new strategy to improve BNCT efficacy. *Int J Radiat Oncol Biol Phys* 2008;72:562-567.
- Menghini D, Hagberg G, Petrosini L, **Bozzali M**, Macaluso E, Caltagirone C, Vicari S. Structural correlates of implicit learning deficits in subjects with developmental dyslexia. *Ann N Y Acad Sci* 2008;1145:212-221.
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 - Clausi S, **Bozzali M**, Leggio MG, Di Paola M., Hagberg GE, Caltagirone C, Molinari M. Quantification of gray matter changes in the cerebral cortex after isolated cerebellar damage: a voxel-based morphometry study. *Neuroscience* 2009;162:827-835.
 - Cercignani M, Basile B, Spanò B, Comanducci G, Fasano F, Caltagirone C, Nocentini U, **Bozzali M**. Investigation of quantitative magnetization transfer parameters of lesions and normal appearing white matter in multiple sclerosis. *NMR Biomed* 2009;22:646-653.
 - Capuani S, Gili T, **Bozzali M**, Russo S, Porcari P, Cametti C, Muolo M, D'Amore E, Maraviglia B, Lazzarino G, Pastore FS. Boronophenylalanine uptake in C6 glioma model is dramatically increased by L-DOPA preloading. *Appl Radiat Isotopes* 2009;67(7-8 Suppl):S34-36.
 - Serra L, Cercignani M, Lenzi D, Perri R, Fadda F, Caltagirone C, Macaluso E, **Bozzali M**. Grey and white matter changes at different stages of Alzheimer's disease. *J Alzheimers Dis* 2010;19:147-159.
 - Lenzi D, Serra L, Perri R, Pantano P, Lenzi GL, Paulesu E., Caltagirone C, **Bozzali M**, Macaluso E. Single domain amnesic MCI: a multiple cognitive domains fMRI investigation. *Neurobiol Aging* 2011;32:1542-1557.
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