

**BIOGRAPHICAL SKETCH**  
**Complete for each**

Name: [Last, First, Middle Initial(s), Degree(s)]  
**BUSCARINUMARIA CHIARA, MD, PhD**

Position/Title:  
**Research fellow**

**professional associated with the project**

**Education**

[Begin with baccalaureate or other professional education and include postdoctoral training]

Institution and Location	Degree	Year Conferred	Field of Study
University of study of Sassari	MD	2006	Neuroscience. Research Thesis on the following topic: "Immunità anti - malaria nei pazienti con sclerosi multipla: evidenze sperimentali a favore della "ipotesi igienica"
University of study of Sassari	Neurologist	2012	Multiple sclerosis: Research Thesis on the following topic: "valutazione doppler sonografica del ritorno venoso cerebrale in coppie di gemelli mono zigoti discordanti per sclerosi multipla"
Sapienza University of Rome	PhD	2016	Clinical/Experimental Neuroscience. Research Thesis: "Altered intestinal permeability in patients with multiple sclerosis"

## Research and Professional Experience

[List in chronological order, previous employment, experience and honors]

2007-2012: Resident in Neurology at University of study of Sassari, Institute of Neurology in Sassari

2012-2016 PhD in Clinical/Experimental Neuroscience and Psychiatry

2012 to date: Consultant neurologist in Centre for Experimental Neurological Therapies (CENTERS) and Multiple Sclerosis Centre of Sant'Andrea Hospital, in Rome

2015 to date: Research fellow in Department of Neurosciences, Mental Health and Sensory Organs, Sapienza University.

2010 to date: Investigator in several Phase II,III and IV clinical trials on Multiple Sclerosis

2007- 2011: Member of the Associazione Italiana di Neuroimmunologia (AINI)

2011 to date: Member of the Società Italiana di Neurologia (SIN)

## Publications

For each investigator, provide complete bibliographic citations for selected **publications related to the topic of this application**. DO NOT exceed one page for each individual.

- Giacomini E, Rizzo F, Etna MP, Cruciani M, Mechelli R, **Buscarinu MC**, Pica F, D'Agostini C, Salvetti M, Coccia EM, Severa M. Thymosin- $\alpha$ 1 expands deficient IL-10-producing regulatory B cell subsets in relapsing-remitting multiple sclerosis patients. *MultScler*. 2017 Feb 1;1352458517695892. doi: 10.1177/1352458517695892
- Rizzo F, Giacomini E, Mechelli R, **Buscarinu MC**, Salvetti M, Severa M, Coccia EM. Interferon- $\beta$  therapy specifically reduces pathogenic memory B cells in multiple sclerosis patients by inducing a FAS-mediated apoptosis. *Immunol Cell Biol*. 2016 Oct;94(9):886-894.
- Chiara M, Manzari C, Lionetti C, Mechelli R, Anastasiadou E, **Buscarinu MC**, Ristori G, Salvetti M, Picardi E, D'Erchia AM, Pesole G, Horner DS. Geographic population structure in Epstein-Barr Virus revealed by comparative genomics. *Genome Biol Evol*. 2016 Sep 15.
- Purchiaroni F, Salvetti M, **Buscarinu MC**, Annibale B. Eosinophilic gastroenteritis in a woman with multiple sclerosis on dimethyl fumarate. *Neurology*. 2016 Aug 30;87(9):952-3. doi: 10.1212/WNL.0000000000003045. Epub 2016 Jul 27.
- Maria Chiara Buscarinu**, Benedetta Cerasoli, Viviana Annibali, Claudia Policano, Luana Lionetto, Matilde Capi, Rosella Mechelli, Silvia Romano, Arianna Fornasiero, Gianluca Mattei, Eleonora Piras, Daniela F Angelini, Luca Battistini, Maurizio Simmaco, Renato Umeton, Marco Salvetti and Giovanni Ristori. Altered intestinal permeability in patients with relapsing-remitting multiple sclerosis: A pilot study. *Multiple Sclerosis Journal*. 1-5. DOI: 10.1177/1352458516652498
- Falabella M, Forte E, Magnifico MC, Santini P, Arese M, Giuffrè A, Radić K, Chessa L, Coarelli G, **Buscarinu MC**, Mechelli R, Salvetti M, Sarti P. "Evidence for detrimental cross interactions between reactive oxygen and nitrogen species in Leber's hereditary optic neuropathy cells". *Oxid Med Cell Longev*. 2016; 2016:3187560. doi: 10.1155/2016/3187560. Epub 2015 Dec 31.
- De Rosa V, Galgani M, Porcellini A, Colamatteo A, Santopaolo M, Zuchegna C, Romano A, Simone S, Procaccini C, Rocca C, Carrieri PB, Maniscalco GT, Salvetti M, **Buscarinu MC**, Franzese A, Mozzillo E, La Cava A, Matarese G. Glycolysis controls the induction of human regulatory T cells by modulating the expression of FOXP3 exon 2 splicing variants. *Nat Immunol*. 2015 Sep 28. doi: 10.1038/ni.3269.
- Severa M, Rizzo F, Giacomini E, Annibali V, Gafa V, Romano S, **Buscarinu MC**, Fornasiero A, Salvetti M, Coccia EM. IFN- $\beta$  Therapy Regulates TLR7-Mediated Response in Plasmacytoid Dendritic Cells of Multiple Sclerosis Patients Influencing an Anti-Inflammatory Status. *J Interferon Cytokine Res*. 2015 Sep;35(9):668-81. doi: 10.1089/jir.2014.0207. Epub 2015 Apr 29.
- Mechelli R, Manzari C, Policano C, Annese A, Picardi E, Umeton R, Fornasiero A, D'Erchia AM, **Buscarinu MC**, Agliardi C, Annibali V, Serafini B, Rosicarelli B, Romano S, Angelini DF, Ricigliano VA, Buttari F, Battistini L, Centonze D, Guerini FR, D'Alfonso S, Pesole G, Salvetti M, Ristori G. Epstein-Barr virus genetic variants are associated with multiple sclerosis. *Neurology*. 2015 Mar 31;84(13):1362-8.
- Fagnani C, Neale MC, Nisticò L, Stazi MA, Ricigliano VA, **Buscarinu MC**, Salvetti M, Ristori G. Twin studies in multiple sclerosis: A meta-estimation of heritability and environmentality. *MultScler*. 2015 Jan 12. pii: 1352458514564492.
- Annibali V, Mechelli R, Romano S, **Buscarinu MC**, Fornasiero A, Umeton R, Ricigliano VA, Orzi F, Coccia EM, Salvetti M, Ristori G. IFN- $\beta$  and multiple sclerosis: From etiology to therapy and back. *Cytokine Growth Factor Rev*. 2015 Apr;26(2):221-8. doi: 10.1016/j.cytogfr.2014.10.010. Epub 2014 Oct 31.
- Sethi NK, Ristori G, Romano S, Coarelli G, **Buscarinu MC**, Salvetti M. Effects of Bacille Calmette-Guérin after the first demyelinating event in the CNS. *Neurology*. 2014 Jul 15;83(3):293. doi: 10.1212/01.wnl.0000452303.37990.ff. No abstract available. PMID:25024446
- Fagnani C, Ricigliano VA, **Buscarinu MC**, Nisticò L, Salvetti M, Stazi MA, Ristori G. Shared environmental effects on multiple sclerosis susceptibility: conflicting evidence from twin studies. *Brain*. 2014 Jul;137(Pt 7):e287. doi: 10.1093/brain/awu098. Epub 2014 Apr 15.
- Camperio C, Muscolini M, Volpe E, Di Mitri D, Mechelli R, **Buscarinu MC**, Ruggieri S, Piccolella E, Salvetti M, Gasperini C, Battistini L, Tuosto L. CD28 ligation in the absence of TCR stimulation up-regulates IL-17A and pro-inflammatory cytokines in relapsing-remitting multiple sclerosis T lymphocytes. *Immunol Lett*. 2014 Jan 8;158(1-2):134-142. doi: 10.1016/j.imlet.2013.12.020.
- Mechelli R, Umeton R, Policano C, Annibali V, Coarelli G, Ricigliano VA, Vittori D, Fornasiero A, **Buscarinu MC**; International Multiple Sclerosis Genetics Consortium; Wellcome Trust Case Control Consortium, 2, Romano S, Salvetti M, Ristori G. A "candidate-interactome" aggregate analysis of genome-wide association data in multiple sclerosis. *PLoS One*. 2013 May 16;8(5):e63300.

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