

PERSONAL INFORMATION **ELENA BARBUTI**



WORK EXPERIENCE

- January 2023-October 2023 Research fellow  
Massachusetts General Hospital /Massachusetts Institute of Technology /Harvard Medical School;  
Athinoula A. Martinos Center for Biomedical Imaging, Boston, MA, USA.
- September-December 2022 Neurologist (occasional provision of service)  
MS center, Spaziani Hospital, ASL FROSINONE, Via A. Fabi 5, 03100, Frosinone, Italy.
- November 2019- Medical Doctor, Neurology Resident
- November 2023 Sapienza Università di Roma, pz.le Aldo Moro, 5- Rome, Italy.
- March 2019 - September 2019 Medical Doctor, training for GP  
ASL RM1, via Eugenio De Mattei 72-Rome, Italy.
- Other professional positions GP replacement  
Doctor on duty  
Casa di cura San Raffaele Portuense, Via Bernardino Ramazzini, 45, 151 Rome. Auxologico  
Roma Buon Pastore, Via di Vallelunga, 8, 00166, Rome.

EDUCATION AND TRAINING

- November 2023 Neurology degree  
Sapienza Università di Roma, pz.le Aldo Moro, 5- Rome, Italy. Thesis supervisor: Prof. Carlo Pozzilli.  
Co-supervisor: Prof. C. Mainero. Experimental thesis: "Choroid plexus as a marker of compartmentalized inflammation and neurodegeneration in multiple sclerosis: a combined 3 and 7-T MRI study" Final grade: 70/70 cum laude.
- February 2019 Medical License  
OMCEO: Ordine dei Medici di Roma, Via Giovanni Battista de Rossi 9- Rome, Italy.  
Membership number: 64481
- October 2018 Medicine and Surgery degree  
Università Cattolica del Sacro Cuore, Fondazione Policlinico Agostino Gemelli- Largo F. Vito, 1, Rome  
Neurology department. Chief of Neurology Residency Program: Prof. PM. Rossini.  
Thesis supervisor: Prof. C. Masullo. Experimental thesis: "Study of the clinical and molecular characteristics of presenile dementias" Final grade: 110/110 cum laude.
- September -December 2017 Exchange program (Erasmus)  
University Hospital of Wales- Cardiff University school of medicine -Heath Park, Cardiff CF14 4XW, Galle, UK
- March 2017 Master's Degree in Violin  
Conservatorio di Santa Cecilia, Via dei Greci 18, Rome-Italy.
- July 2012 High school graduation  
Liceo Ginnasio Statale Dante Alighieri, via Ennio Quirino Visconti 13, Rome-Italy. Final grade: 100/100.

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
C1 Advanced (CAE- Certificate in Advanced English-Cambridge Assessment)					
French	A2	A2	A1	A1	A2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common  
European Framework of Reference for Languages

Communication skills	Good communication skills gained through everyday medical practice.
Other skills	Violinist. She performed in prestigious concerts halls in Italy and abroad, in several orchestras or chamber music groups, under the direction of famous conductors (e.g. Sir Antonio Pappano).
Digital skills	Operating systems: Windows, Mac OS, Linux. Good command of office suite (word processor, spread sheet, presentation software). MRI data processing & analysis softwares: FSL, Jim, FreeSurfer, Slicer, SPM12. Statistical packages: SPSS, R.
Driving licence	B

#### ADDITIONAL INFORMATION

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Certificates and Courses	<p>-C1 Advanced (CAE- Certificate in Advanced English-Cambridge Assessment)- Cambridge ESOL level 2 Certificate in ESOL International.</p> <p>-Primary Course in « Applied Statistics and Research Methodology for Medical and Social Sciences : Practical Sessions with SPSS » Neocortex-advanced neuroscience course.</p> <p>-ACLS (Advanced Cardiovascular Life Support)- 19/06/2022</p> <p>-GCP –Social and Behavioral Research Best Practices for Clinical Research; CITI Good Clinical Practice Course; Biomedical Research Investigators and Key Personnel-Jan 2023</p> <p>-Applied Biostatistics for Clinical trials- March 2023, Center for Clinical Research Education, MGH</p>
Professional Societies Membership	<p>-2019-ongoing : SIN (Italian Society of Neurology)</p> <p>-2022-ongoing : EAN (European Academy of Neurology)</p> <p>-2023-ongoing : AAN (American Academy of Neurology)</p>
Honors	<p>-WCN 2021 bursary winner</p> <p>-ECTRIMS 2023 travel grant</p> <p>-SIN 2020 and 2023 bursary winner</p> <p>-ACTRIMS 2024 travel grant</p> <p>-NAIMS 2024 educational grant courtesy of EMD Serono</p>
Peer-reviewed Publications	<p>- Miscioscia A, Treaba CA, Barletta VT, Herranz E, Sloane JA, <b>Barbuti E</b>, Mainero C. White matter paramagnetic rim and non-rim lesions share a periventricular gradient in multiple sclerosis: A 7-T imaging study. <i>Mult Scler.</i> 2024 Feb;30(2):166-176. doi: 10.1177/13524585231224681. Epub 2024 Jan 27. PMID: 38279672.</p> <p>-Mainero C, Treaba CA, <b>Barbuti E</b>. Imaging cortical lesions in multiple sclerosis. <i>Curr Opin Neurol.</i> 2023 Jun 1;36(3):222-228. doi: 10.1097/WCO.0000000000001152. Epub 2023 Apr 7. PMID: 37078649.</p> <p>-<b>Barbuti E</b>, Nistri R, Ianniello A, et al. Should we treat pediatric radiologically isolated syndrome? An 18-year follow-up case report. <i>Front Neurol.</i> 2023 Apr 6;14:1145260. doi: 10.3389/fneur.2023.1145260. PMID: 37090972; PMCID: PMC10117757.</p> <p>-Petracca M, Ruggieri S, <b>Barbuti E</b>, et al. Predictors of Cladribine Effectiveness and Safety in Multiple Sclerosis: A Real-World, Multicenter, 2-Year Follow-Up Study. <i>Neurol Ther.</i> 2022 Sep;11(3):1193-1208. doi: 10.1007/s40120-022-00364-6. Epub 2022 Jun 2. PMID: 35653061; PMCID: PMC9338179.</p> <p>-Nistri R, <b>Barbuti E</b>, Rinaldi V, et al. Case Report: Multiple Sclerosis Relapses After Vaccination Against SARS-CoV2: A Series of Clinical Cases. <i>Front Neurol.</i> 2021 Oct 22; 12:765954. doi:10.3389/fneur.2021.765954. PMID: 34744992; PMCID: PMC8569136.</p> <p>-Pozzilli C, Prosperini L, Tommasin S, Gasperini C, <b>Barbuti E</b>, De Giglio L. Dalfampridine improves slowed processing speed in multiple sclerosis patients with mild motor disability: post hoc analysis of a randomized controlled trial. <i>Ther Adv Neurol Disord.</i> 2021 Apr 24;14:17562864211011286. doi: 10.1177/17562864211011286. PMID: 34035835; PMCID: PMC8072854.</p>
Chapters in books	Capitolo 27. Pozzilli c, <b>Barbuti E</b> , Borriello G. « Medicina Personalizzata applicata alla SM » in « Sclerosi Multipla e Malattie Demielinizzanti del Sistema Nervoso Centrale » a cura del Prof. G. Comi. Edizioni Minerva medica S.p.A.
Conference Abstracts	<p>-<b>Barbuti E</b>, Treaba C.A, Miscioscia A et al. Choroid plexus as a marker of chronic inflammation and neurodegeneration in multiple sclerosis: a combined PET- and 7-Tesla-MRI study. ACTRIMS 2024, Feb 29-March 2.</p> <p>-<b>Barbuti E</b>, Treaba CA, Miscioscia A. et al. Choroid plexus enlargement as marker of chronic inflammation and neurodegeneration in multiple sclerosis: a combined 3- and 7-Tesla imaging study. SIN 2023,21-24 Oct.</p> <p>-Nistri R, Piervincenzi C, Gianni' C, Ianniello A, <b>Barbuti E</b> et al. Paramagnetic rim lesions in Natalizumab patients: prevalence, influence on MSFC and patient reported outcomes. SIN 2023,21-24 Oct.</p>

-**Barbuti E**, Treaba CA, Miscioscia A. et al. Elucidating the role of choroid plexus enlargement as a marker of chronic inflammation and degeneration in multiple sclerosis: a combined 3- and 7-Tesla imaging study. ECTRIMS 2023, 11-13 Oct.

-**Barbuti E**, Prosperini L, Fubelli F et al. Natalizumab vs Ocrelizumab: preliminary long-term results in a real-world setting. 52nd Congress of the Italian Society of Neurology (SIN), 3-6 Dec, 2022.

-Sellitto G, Ruotolo I, **Barbuti E** et al. Can demographic and clinical variables influence fatigue in people with Multiple Sclerosis ? A cross-sectional study. ECTRIMS, 26-28 Oct 2022.

-Ruggieri S, Petracca M, **Barbuti E**, et al. Spinal cord Reserve and disability worsening in patients with Multiple Sclerosis. ECTRIMS, 26-28 Oct 2022.

-**Barbuti E**, Ianniello A, Nistri R, Ruggieri S, Borriello G, Pozzilli C. "Real world experience with cladribine at St. Andrea Hospital in Rome" Virtual Congress XXV World Congress of Neurology (WCN 2021) 3-7 Oct, 2021.

-**Barbuti E**, Nistri R, Ianniello A, Ruggieri S, Pozzilli C. "Who is the best candidate to Cladribine treatment in Multiple Sclerosis?". 51st Congress the Italian Society of Neurology (SIN). 28-30 Nov, 2020.

-**Barbuti E**, Nistri R, Ianniello A, Borriello G, Prosperini L, Pozzilli C-poster "Is pediatric radiologically isolated syndrome (RIS) a treatable pathological condition? A case report". 51st Congress the Italian Society of Neurology (SIN). 28-30 Nov, 2020.

-Nistri R, **Barbuti E**, Pozzilli C, Ruggieri S, Ianniello A. "autoimmune myocarditis in patient with multiple sclerosis". 51st Congress the Italian Society of Neurology (SIN). 28-30 Nov, 2020.

Clinical trials She was sub-investigator or rater in clinical trials:

-MuSusicalE MN39889 (Hoffmann-La Roche) : « Non-interventional study of Ocrelizumab in participants with relapsing or primary-progressive multiple sclerosis ». ClinicalTrials.gov Identifier: NCT03593590.

-SPI2 (MedDay Pharmaceuticals SA) :« Effect of MD1003 in progressive multiple sclerosis ». ClinicalTrials.gov Identifier: NCT02936037.

-O'HAND : ORATORIO-HAND WA40404 (Hoffmann-La Roche) : « A study to evaluate the efficacy and safety of ocrelizumab in adults with primary progressive multiple sclerosis ». ClinicalTrials.gov Identifier: NCT04035005.

-OPERETTA II WN42086 (Hoffmann-La Roche): «A study to evaluate safety and efficacy of ocrelizumab in comparison with fingolimod in children and adolescents with relapsing-remitting multiple sclerosis». ClinicalTrials.gov Identifier: NCT05123703.

-SAKuraBonsai (Hoffmann-La Roche): «A Study In Neuromyelitis Optica Spectrum Disorder (NMOSD) With Satralizumab As An Intervention». ClinicalTrials.gov Identifier: NCT05269667.

- «In vivo imaging of fibrin deposition in multiple sclerosis by 64CU-FBP8 MR-PET» (2019P000414), MGH.

- «In vivo imaging of fibrin deposition and its correlates in multiple sclerosis» (2022P001328), MGH.

Reviewing activity Peer-Reviewer for the journal: Neural Regeneration Research (NRR, [www.nrronline.org](http://www.nrronline.org)) and NEREP Neuroimmunology reports, 2023.

Internal active grants (University of Rome La Sapienza) -'small' research project grant: « The relationship between life style factors and Multiple Sclerosis in Italy: beyond food regimen » – Grant No. RP120172B4168A93. 2020. Principal Investigator: Ruggieri S. Co-applicants: **Barbuti E**, Gurreri F.

-'seed funding' for a project: « Non coding-RNA and telomeres as potential biomarkers in Alzheimer disease ». Grant No. R12117A5D46A6D2. 2021. Principal investigator: Troili F. Co-applicant: **Barbuti E**.

Personal data Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali". Il sottoscritto, ai sensi degli articoli 46 e 47 DPR 445/2000, consapevole delle sanzioni penali previste dall'articolo 76 del DPR 445/2000 nel caso di mendaci dichiarazioni, falsità negli atti, uso o esibizione di atti falsi o contenenti dati non più corrispondenti a verità, dichiara che quanto di seguito riportato corrisponde a verità.

08/02/2024 ELENA BARBUTI