




PERSONAL INFORMATIONS

Mirella Russo

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PROFESSIONAL EXPERIENCE

- 11/2020-ongoing **Doctorate student**
Neuroscience and Imaging
Department of Neuroscience, Imaging and Clinical Sciences
G. d'Annunzio University of Chieti-Pescara
- 29/12/2017-ongoing **Resident in Neurology**
Neurological Clinic, SS. Annunziata Hospital, Chieti,
G. d'Annunzio University of Chieti-Pescara
- 13/12/2019-ongoing **Sub investigator, Rater – Clinical Study TD-9855-0169 (MARIN)**
Center for advanced studies and technology (CAST), Chieti
- 10/10/2019-01/02/2021 **Sub investigator, Rater - Clinical Study Z7219K01**
Center for advanced studies and technology (CAST), Chieti
- 22/02/2019-ongoing **Sub investigator, Rater - Clinical Study IPX203-B16-02**
Center for advanced studies and technology (CAST), Chieti
- 12/09/2018-ongoing **Sub investigator, Rater - INTERCEPTOR project**
Strategic project promoted by the Italian Medicines Agency (AIFA)
Neurology Clinic, SS. Annunziata Hospital, Chieti,
G. d'Annunzio University of Chieti-Pescara
- 04/09/2018-02/07/2020 **Sub investigator, Rater - Clinical Study E 2027 G 000 201**
Center for advanced studies and technology (CAST)
- 01/10/2016-13/12/2017 **Study coordinator - Clinical Study MK8931 019**
Sub investigator, Rater - Clinical Study NET 201 1 02346784
Neurology Clinic, Santa Maria della Misericordia Hospital, Perugia
- 01/10/2015-13/12/2017 **Voluntary attendance**
Neurology Clinic, Santa Maria della Misericordia Hospital, Perugia

EDUCATION AND TRAINING

- 04/12/2020-06/12/2020 **Current practice and new perspectives in Primary Headache treatment – Didactic Module**
"Scuola Superiore Interdisciplinare delle Cefalee" (SISC)
Perugia
- 04/11/2020 **Course on neuropsychology**
SINdem
- 12/10/2020-19/01/2021 **Course on EEG and Evoked Potentials**
LICE
- 11/10/2020 **Qualified as "First Level Expert in Headaches"**
"Scuola Superiore Interdisciplinare delle Cefalee" (SISC)
Perugia

9/10/2020-11/10/2020	Primary Headaches and comorbidity – Didactic Module "Scuola Superiore Interdisciplinare delle Cefalee" (SISC) Perugia
8/09/2020-12/09/2020	Biological and clinical converging pathways in Alzheimer disease and Parkinson disease - Summer School: management strategies and disease modifying treatment - Health and Wealth Applied Neurosciences 2020 University of Brescia
06/11/2019-06/11/2019	Neurosonology in degenerative and vascular brain diseases – Congress and practical course Società Italiana Interdisciplinare Neurovascolare (SINV) San Benedetto del Tronto
02/09/2019-06/09/2019	Biological and clinical converging pathways in Alzheimer disease and Parkinson disease - Summer School - Health and Wealth Applied Neurosciences 2019 University of Brescia
10/05/2019-12/05/2019	Cluster Headache and other TACs – Didactic Module "Scuola Superiore Interdisciplinare delle Cefalee" (SISC) Perugia
14/02/2019-16/02/2019	<u>Neuropsychological evaluation in neurodegenerative diseases - Masterclass</u> University of Pisa
09/11/2019-11/11/2018	Chronic Migraine - Didactic Module "Scuola Superiore Interdisciplinare delle Cefalee" (SISC)
12/05/2017	<u>Advanced Life Support certification</u> Italian Resuscitation Council
27/02/2017	Admission to medical practice License n. 8157 at Perugia's Physicians' and Odontologists' Board
2010-2016	Master's degree in Medicine Final mark: 110/110 <i>magna cum laude</i> Experimental thesis title: "La fase pre-demenza della malattia di Alzheimer: correlati neuropsicologici e di volumetria cerebrale in risonanza magnetica" University of Perugia
2005-2010	Classical High School Degree - Final mark: 100/100 "A. Casardi" Classical High School

SCIENTIFIC PRODUCTION

Congress attendance, presentations, travel grants

- Brain awareness week 2021, Oral presentation Neurotropic viruses and cognitive impairment
- SIN 2020, Poster, co-author Low molecular weight heparin in COVID-19 patients prevents delirium and shortens hospitalization
- SIN 2020, Poster, co-author Hyperconnectivity in dementia is early and focal and wanes with progression
- SIN 2020, Poster, co-author New-onset refractory status epilepticus (NORSE) in post Sars-Cov-2 autoimmune encephalitis: a case report
- SIN 2020, Oral presentation, co-author Electroencephalographic quantitative modifications during ovarian cycle in patients with catamenial C1 pattern temporal lobe epilepsy: a pilot study
- SIN 2020, Oral presentation, co-author Lateralized periodic discharges in aphasic status epilepticus: treatment strategies and clinical outcomes
- SIN 2020, Poster, Co-Author The Italian dementia with Lewy bodies study group (DLB-SINdem): a multicenter survey on the accuracy and the prevalence of DLB diagnosis
- 2nd AAT-ADPDTM Focus Meeting, 2020, Poster A proposed model of network reorganization in neurodegenerative diseases: an EEG study on FTD and AD.
- IV ANEU Congress, 2020 Winner of travel grant by SIN Foundation.

- Sindem4juniors, SINDem and SIN 2020
Poster, first author

Neurotransmitter imbalance within the ventromedial prefrontal cortex is linked to somatic symptom disorder in Parkinson's Disease at the onset of motor symptoms.
- Sindem4juniors 2020

Moderator of the IV Scientific session.
- Sindem4juniors 2020,
Poster, co-author

A challenging diagnosis of reversible early-onset dementia: an atypical presentation of CLIPPERS.
- Sindem4juniors 2020,
Poster, co-author

CSF Tau proteins correlate with an Atypical Clinical Presentation in Dementia with Lewy Bodies.
- Sindem4juniors 2020,
Poster, co-author

Longitudinal study of EEG functional connectivity in behavioural variant Frontotemporal Dementia vs. Alzheimer's Disease.
- SIN 2019,
Poster, presenting author

Somatic Symptoms Disorders in Parkinson's Disease are related to Default Mode and Salience network dysfunction.
(Winner of the Travel Grant: "Progetto Giovani")
- SIN 2019,
Poster, co-author

EEG abnormalities of DLB patients are more prominent in frontal regions.
(Awarded with "Best Poster" Prize)
- SIN 2019
Poster co-author

A proposed model of network reorganization in neurodegenerative diseases: an EEG study on FTD and AD.
- SIN 2019
Oral presentation,
co-author

Effects of Perampanel on cardiac autonomic control in patients with drug-resistant temporal lobe epilepsy.
- SIN 2019
Oral presentation,
co-author

Heart rate variability analysis shows a lateralization of the autonomic control in temporal lobe epilepsy (TLE).
- Sindem4juniors and SINDem 2019
Poster and Flash poster,
presenting author

EEG abnormalities of DLB patients are more prominent in frontal regions.
- Sindem4juniors and SINDem 2019
Poster, co-author

Visual evoked potentials alterations in Lewy Body Dementia.
- SINDem 2018
Poster, presenting author

A case of posterior variant of Alien limb syndrome with sudden clinical debut as self-injury and associated with capsulo-thalamic stroke.
- LICE Policentrica 2018
Poster, co-author

New Onset "Super-Refractory" Status Epilepticus di incerto inquadramento etiologico.
- SIN 2017
Poster, co-author

The Italian version of Cognitive Function Instrument (CFI): detecting early cognitive changes in a cohort of healthy elderly subjects at one-year follow-up.
- SIN 2017
Oral presentation,
co-author

Diagnostic utility of combining pathophysiological and topographical markers in the diagnosis of Alzheimer's disease and other dementias.
- SIN 2017
Oral presentation,
first author

The performance of CSF A β 42/A β 40 ratio in the differential diagnosis between Alzheimer's disease and frontotemporal dementia.
- SINDem 2017
Poster, Presenting author

A case of posterior cortical atrophy presenting with Gerstmann's and Bálint's syndromes and evolved to corticobasal syndrome.
- ADPD 2017
Poster and
Short Oral session,
Presenting author

Combined brain automated segmentation with MRI, neuropsychological standard battery and CANTAB in a cohort of MCI patients: an exploratory study.
- The Lancet Neurology Conference 2016
Poster, co-author

Predictive value of MRI brain volumetric measures on neuropsychological scores of patients with mild cognitive impairment.
- SIN 2016

Correlations between neuropsychological tests and structural brain magnetic resonance

Poster, Presenting author imaging in a cohort of patients with mild cognitive impairment.

ADDITIONAL INFORMATIONS

Referee

Journal of Alzheimer's Disease, BMJ Case Reports, Scientific reports.

Further skills

My competences include: elaboration of research proposals, management of clinical protocols, clinical evaluation of patients, management of neurological emergencies (e.g. intravenous systemic thrombolysis); clinical interpretation of neuroimaging exams; neuropsychological examination, interpretation and reporting; interpretation and reporting of electroencephalogram (EEG), also with quantitative analysis (QEEG), visual evoked potentials (VEP), electromyography and electroneuronography (EMG/ENG), transcranial and carotid doppler ultrasound, lumbar puncture procedure.

Language skills

Italian: Native speaker

English: Proficient user (C2)

Certifications

Good Clinical Practice (ICH E6 GCP)	28/06/2020
C-SSRS	07/02/2019
MDS-UPDRS	07/02/2019
MoCA	17/06/2021

List of Publications

1. Status epilepticus and COVID-19: A systematic review. Dono F, Nucera B, Lanzone J, Evangelista G, Rinaldi F, Speranza R, Troisi S, Tinti L, Russo M... and Brigo F. *Epilepsy Behav.* 2021. May;118:107887. Doi: 10.1016/j.yebeh.2021.107887.
2. Being the Family Caregiver of a Patient With Dementia During the Coronavirus Disease 2019 Lockdown. Zucca M, Isella V, Di Lorenzo R... and the SINdem COVID-19 Study Group. *Front. Aging Neurosci.* 13:653533. doi: 10.3389/fnagi.2021.653533
3. Agitation and Dementia: Prevention and Treatment Strategies in Acute and Chronic Conditions. Carrarini C, Russo M, Dono F... and Bonanni L. *Front. Neurol.* 12:644317. doi: 10.3389/fneur.2021.644317
4. Cognitive dysfunction in amyotrophic lateral sclerosis: can we predict it? De Marchi F*, Carrarini C*, De Martino A*, Diamanti L*, Fasano A*, Lupica A*, Russo M*, Salemme S*, Spinelli EG*, Bombaci A*. *Neurol Sci* 42, 2211–2222 (2021). <https://doi.org/10.1007/s10072-021-05188-0>.
5. Plasma Neurofilament Light Chain predicts cognitive progression in prodromal and clinical dementia with Lewy Bodies. Pilotto A, Imarisio A, Carrarini C, Russo M... and Padovani A. *Journal of Alzheimer's Disease*, vol. Pre-press, no. Pre-press, pp. 1-7, 2021. doi: 10.3233/JAD-210342.
6. Visual evoked potential abnormalities in dementia with Lewy bodies. Carrarini C*, Russo M*, Pagliaccio G... and Bonanni L. *Neurophysiol Cliniq*, (In Press). doi: 10.1016/j.neucli.2021.02.003.
7. Clinical presentation of strokes confined to the insula: a systematic review of literature. Di Stefano V, Montemitro C, Russo M, Carrarini C, De Angelis MV, Di Giannantonio M, Onofrj M, Werring DJ, Simister R. 10.1016/j.neucli.2021.02.003.
8. The Impact of COVID-19 Quarantine on Patients With Dementia and Family Caregivers: A Nation-Wide Survey. Rainero I, Bruni AC, Marra C, Cagnin A, Bonanni L, Cupidi C, Laganà V, Rubino E, Vacca A, Di Lorenzo R, Provero P, Isella V, Vanacore N, Agosta F, Appollonio I, Caffarra P, Bussè C, Sambati R, Quaranta D, Guglielmi V, Logroscino G, Filippi M, Tedeschi G, Ferrarese C; SINdem COVID-19 Study Group. *Front Aging Neurosci.* 2021 Jan 18;12:625781. doi: 10.3389/fnagi.2020.625781. PMID: 33536898; PMCID: PMC7849158.
9. Lewy Body Dementia. Bonanni L, Franciotti R, Russo M, Carrarini C, Thomas A, Onofrj M. *Progress in Neuroscience.* 2019;4:1-4. Doi: 10.14588/pin.2019.bonanni.27
10. Low molecular weight heparin in COVID-19 patients prevents delirium and shortens hospitalization. D'Ardes D, Carrarini C, Russo M, Dono F, Speranza R, Digiovanni A, Martinotti G, Di Iorio A, Onofrj M, Cipollone F, Bonanni L. *Neurol Sci.* 2020 Nov 13:1-4. doi: 10.1007/s10072-020-04887-4. Online ahead of print. PMID: 33185785.
11. New-onset refractory status epilepticus (NORSE) in post SARS-CoV-2 autoimmune encephalitis: a case report. Dono F, Carrarini C, Russo M, De Angelis MV, Anzellotti F, Onofrj M, Bonanni L. *Neurol Sci.* 2020 Nov 3:1-4. doi: 10.1007/s10072-020-04846-z. Online ahead of print. PMID: 33145624

12. Diaphragmatic myoclonus due to SARS-CoV-2 infection. Borroni B, Gazzina S, Dono F, Mazzoleni V, Liberini P, Carrarini C, Russo M, Pontolillo M, Vecchiet J, Onofrj M, Bonanni L. *Neurol Sci*. 2020 Dec;41(12):3471-3474. doi: 10.1007/s10072-020-04766-y. Epub 2020 Oct 22. PMID: 33090303; PMCID: PMC7579554.
13. Interictal Heart Rate Variability Analysis Reveals Lateralization of Cardiac Autonomic Control in Temporal Lobe Epilepsy. Dono F, Evangelista G, Frazzini V, Vollono C, Carrarini C, Russo M, Ferrante C, Di Stefano V, Marchionno LP, De Angelis MV, Faustino M, Bonanni L, Onofrj M, Sensi SL, Anzellotti F. *Front Neurol*. 2020 Aug 14;11:842. doi: 10.3389/fneur.2020.00842. eCollection 2020. PMID: 32922353.
14. An atypical presentation of CLIPPERS, a challenging diagnosis of reversible early-onset dementia. Russo M, Piermartiri A, Carrarini C, Dono F, De Angelis MV, Sensi SL, Onofrj M, Bonanni L. *Case Rep Neurol (2020, in press)*.
15. Hyperconnectivity in dementia is early and focal and wanes with progression. Bonanni L, Moretti DV, Benussi A, Ferri L, Russo M, Carrarini C, Barbone F, Arnaldi D, Falasca NW, Koch G, Cagnin A, Nobili F, Babiloni C, Borroni B, Padovani A, Onofrj M, Franciotti R, on behalf of the FTD Italian study group-SINDEM; [published online ahead of print]. *Cereb Cortex*. 2020;bhaa209. DOI:10.1093/cercor/bhaa209.
16. Behavioural and psychological effects of COVID-19 quarantine in patients with dementia. Cagnin a, Di Lorenzo R, Marra C, Bonanni L, Cupidi C, Laganà V, Rubino E, Vacca A, Provero P, Isella V, Vanacore N, Agosta F, Apollonio I, Caffarra P, Pettenuzzo I, Sambati R, Quaranta D, Guglielmi V, Logroscino G, Filippi M, Tedeschi G, Ferrarese C, Rainero I, Bruni AC and SINDEM COVID-19 Study Group. *Front. Psychiatry*. 2020 Sep 9;11:578015. doi: 10.3389/fpsyt.2020.578015. eCollection 2020.
17. Interictal heart rate variability analysis shows lateralization of the autonomic control in Temporal Lobe Epilepsy. Dono F, Evangelista G, Frazzini V, Vollono C, Carrarini C, Russo M, Ferrante C, Di Stefano V, Marchionno LP, De Angelis MV, Faustino M, Bonanni L, Onofrj M, Sensi SL, Anzellotti F. *Front. Neurol Front. Neurol*. 2020, 11, 842. DOI: 10.3389/fneur.2020.00842.
18. Psychogenic Non-epileptic Seizures and Pseudo-Refractory Epilepsy, a Management Challenge. Anzellotti F, Dono F, Evangelista G, Di Pietro M, Carrarini C, Russo M, Ferrante C, Sensi SL, Onofrj M. *Front Neurol*. 2020;11(June):1–14. DOI: 10.3389/fneur.2020.00461.
19. The Pharmacology of Visual Hallucinations in Synucleinopathies. Russo M, Carrarini C, Dono F, Rispoli MG, Di Pietro M, Di Stefano V, Ferri L, Bonanni L, Sensi SL, Onofrj M. *Front Pharmacol*. 2019;10:1379. DOI: 10.3389/fphar.2019.01379.
20. A Stage-Based Approach to Therapy in Parkinson's Disease. Carrarini C*, Russo M*, Dono F, Di Pietro M, Rispoli MG, Di Stefano V, Ferri L, Barbone F, Vitale M, Thomas A, Sensi SL, Onofrj M, Bonanni L. *Biomolecules*. 2019;9(8):388. DOI: 10.3390/biom9080388.
21. Somatic symptoms disorders in Parkinson's disease are related to default mode and salience network dysfunction. Franciotti R, Delli Pizzi S, Russo M, Carrarini C, Carrozzino D, Perfetti B, Onofrj M, Bonanni L. *Neuroimage Clin*. 2019;23:101932. DOI: 10.1016/j.nicl.2019.101932.
22. Posterior Variant of Alien Limb Syndrome with Sudden Clinical Onset as Self-Hitting Associated with Thalamic Stroke. Russo M, Carrarini C, Dono F, Di Stefano V, De Angelis MV, Onofrj M, Sensi SL. *Case Rep Neurol*. 2020;12(1):35-39. DOI: 10.1159/000503857.

23. Asymptomatic carotid acute dissection following focal status epilepticus. Dono F, Anzellotti F, Russo M, Carrarini C, Nanni S, Ferrante C, De Angelis MV, Onofrj M. *Epilepsy Behav Case Rep.* 2019;11:120-121. DOI: 10.1016/j.ebcr.2019.03.002.
24. Lateralized periodic discharges (LPDs) as ictal manifestation of aphasic status epilepticus. Dono F, Vollono C, Carrarini C, Russo M, Camilla F, Onofrj M, Anzellotti F. *Epilepsy Behav,* 2019;101:106754. DOI: 10.1016/j.yebeh.2019.08.029.
25. Lateralized periodic discharges in insular status epilepticus: A case report of a periodic EEG pattern associated with ictal manifestation. Dono F, Russo M, Carrarini C, Di Stefano V, Nanni S, Ferrante C, Onofrj M, Anzellotti F. *Clin Neurophysiol Pract.* 2019;4:27-29. DOI: 10.1016/j.cnp.2019.01.002.
26. The Italian version of cognitive function instrument (CFI): reliability and validity in a cohort of healthy elderly. Chipi E, Frattini G, Eusebi P, Mollica A, D'Andrea K, Russo M, Bernardelli A, Montanucci C, Luchetti E, Calabreci P, Parnetti L. *Neurol Sci.*2018;39(1):111-118. DOI: 10.1007/s10072-017-3150-z.
27. Case of posterior cortical atrophy (PCA) evolved to PCA-CBS. Salvadori N, Russo M, Biscetti L, D'Andrea K, Dottorini ME, Parnetti L. *BMJ Case Rep.* 2018; 2018:bcr2018224312. DOI: 10.1136/bcr-2018-224312.

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Chieti,
August 2, 2021

