

CURRICULUM VITAE ET STUDIORUM

Davide Quaranta

Date and place of birth: 14/7/1979 Cassino (FR), Italy

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UNDERGRADUATE AND POSTGRADUATE TRAINING

- Bachelor's degree with honors in Medicine and Surgery from the Catholic University of the Sacred Heart (AA 2002/2003).
- Degree of Specialization in Neurology obtained at the School of Specialization in Neurology of the Catholic University of the Sacred Heart in the academic year 2007/2008, with a score of 50/50 cum laude.
- Doctor of Philosophy (PhD) in Neuropsychology - title obtained at the Catholic University of the Sacred Heart, XXIV cycle (coordinator Prof. Guido Gainotti).

PROFESSIONAL ACTIVITIES

November 1, 2009 - June 30, 2022: full-time position as neurologist at Policlinico Universitario "A. Gemelli" IRCCS - Unit of Neurology - Service of Neurorehabilitation and Neuropsychology (head Prof. Paolo Calabresi) and Memory Clinic (head Prof. Camillo Marra)

July 1, 2022 - present: Type B Researcher (Assistant Professor) for SSD Psychobiology and Physiological Psychology (M-PSI/02) at the Faculty of Medicine, Catholic University of the Sacred Heart, Rome

Qualification as Associate Professor in Psychobiology and Physiological Psychology (M-PSI02).

RESEARCH ACTIVITY

Focused on the study of the relationships between cognitive and behavioral disorders and biological and neuroanatomical aspects:

- application of psycholinguistic methods to the study of the semantic system and language organization;
- neuroanatomical correlates of behavior, with an interest in functional neuroradiology techniques (functional MRI), particularly with application to patients who are candidates for surgical interventions for low-grade gliomas using the technique of awake surgery;

- clinical and neuropsychological factors predictive of the evolution into dementia of patients with Mild Cognitive Impairment;
- recognition of people by face, voice and name;
- cognitive-behavioral alterations in patients with Multiple Sclerosis; in particular, he is local re-sponsor for the neuropsychological sector of the Multiple Sclerosis Virtual Institute of the Italian Neuroscience Network (RIN).

MEMBERSHIP IN SCIENTIFIC SOCIETIES

SIN -Italian Society of Neurology (since 2005)

SINdem -SIN autonomous adherent association for dementias (since 2007)

SINP - Italian Society of Neuropsychology (since 2008)

MEMBERSHIP IN COORDINATING COMMITTEES, STUDY GROUPS AND RESEARCH UNITS

- member of the Scientific Technical Committee for the drafting of guidelines on "Assessment and rehabilitation of aphasia in stroke patients and patients with progressive aphasia" (National Guideline System - ISS; URL: <https://www.iss.it/-/valutazione-riabilitazione-afasia-in-paziente-con-ictus-e-in-paziente-con-afasia-progressiva-1>)
- co-coordinator of the Neuropsychology Study Group of SINdem;
- member of the coordinating group of the project of development and standardization of the Uniform Data Set - standardized neuropsychological assessment battery within the activities of the Italian Neuroscience Network;
- member of the coordinating group of the project of development and standardization of instruments for neuropsychological teleassessment (ItelMMSE and MiniMOCA) within SINdem
- member of the Cognitive-Behavioral Neurology Study Group of the Italian Society of Neurology;
- member of the Research Unit in Applied Psycholinguistics of the Department of Psychology of the Catholic University of the Sacred Heart (Milan).
- Member for the academic years 2012/2013 - 2015/2016 of the steering committee of the Center for Research in Neuropsychology of the Catholic University of the Sacred Heart

PUBLICATIONS

Books and Chapters in Books

1. **Quaranta D**, Silveri MC, Marra C: Introduzione alla Neuroanatomia funzionale dei processi cognitivi; Vita e Pensiero, Milano, 2022.
2. Luzzi S, **Quaranta D**. Demenze degenerative non Alzheimer; in Stracciari A, Papagno C (eds.): Manuale di neurologia cognitiva e comportamentale; Il Mulino, Bologna, 2021.
3. Marra C, **Quaranta D**. Il Mild Cognitive Impairment; in Papagno C, Bolognini N (eds): Neuropsicologia delle demenze; Il Mulino, Bologna, 2020.
4. Marra C, **Quaranta D**, Gainotti G. La Malattia di Alzheimer; in Denes G, Pizzamiglio L, Guariglia C, Cappa S, Grossi D, Luzzatti C (eds): Manuale di neuropsicologia – normalità e patologia dei processi cognitivi (terza edizione); Zanichelli, Bologna, 2019
5. Marra C, **Quaranta D**. Ruolo della valutazione neuropsicologica nell'identificazione di forme di demenza a rapida progressione; in Gambina G, Cagnin A (eds): Demenze a rapida progressione; Edizioni Libreria Cortina, Verona, 2012
6. Bentivoglio AR, **Quaranta D**, Ho AK. Lesions Associated with Motor Speech; in Halliday G, Barker R, Rowe D (eds): Non-dopamine Lesions in Parkinson's Disease; Oxford University Press, New York, 2011

Papers in peer-reviewed journals

1. **Quaranta D**, Di Tella S, Cassano V, L'Abbate F, Bruno M, Gaudino S, Panfili M, Silveri MC, Marra C. Neural correlates of empathy in mild cognitive impairment. *Cogn Affect Behav Neurosci*. 2023 Dec 29. doi: 10.3758/s13415-023-01146-9. Epub ahead of print. PMID: 38158451.
2. Giuffrè GM, **Quaranta D**, Costantini EM, Citro S, Martellacci N, De Ninno G, Vita MG, Guglielmi V, Rossini PM, Calabresi P, Marra C. Cerebrospinal fluid neurofilament light chain and total-tau as biomarkers of neurodegeneration in Alzheimer's disease and frontotemporal dementia. *Neurobiol Dis*. 2023 Oct 1;186:106267. doi: 10.1016/j.nbd.2023.106267. Epub 2023 Aug 29. PMID: 37652185.
3. **Quaranta D**, Caraglia N, L'Abbate F, Giuffrè GM, Guglielmi V, Iacobucci GM, Rossini PM, Calabresi P, Marra C. Neuropsychological predictors of conversion from mild cognitive impairment to dementia at different timepoints. *Brain Behav*. 2023 Sep;13(9):e3098. doi: 10.1002/brb3.3098. Epub 2023 Aug 7. PMID: 37550896; PMCID: PMC10498086.
4. Guglielmi V, **Quaranta D**, Masone Iacobucci G, Citro S, Scala I, Genovese D, Brunetti V, Marra C, Calabresi P, Della Marca G. Basal ganglia ischaemic infarction after thrombectomy: cognitive impairment at acute stage. *Eur J Neurol*. 2023 Dec;30(12):3772-3779. doi: 10.1111/ene.15933. Epub 2023 Jul 10. PMID: 37332125.
5. Gainotti G, **Quaranta D**, Luzzi S. Apperceptive and Associative Forms of Phonagnosia. *Curr Neurol Neurosci Rep*. 2023 Jun;23(6):327-333. doi: 10.1007/s11910-023-01271-5. Epub 2023 May 3. PMID: 37133717; PMCID: PMC10257619.
6. **Quaranta D**, Cerami C, Caraglia N, Costantini EM, Di Tella S, Silveri MC, Cappa S, Gaudino S, Marra C, Dodich A. Self-assessment of empathy uncovers defective self-awareness in mild cognitive impairment. *Neuropsychology*. 2023 Mar 16. doi: 10.1037/neu0000896. Epub ahead of print. PMID: 36931815.
7. De Marco M, Vonk JMJ, **Quaranta D**. Editorial: The mechanistic and clinical principles of item-level scoring methods applied to the category fluency test and other tests of semantic memory. *Front Psychol*. 2023 Feb 21;14:1152574. doi: 10.3389/fpsyg.2023.1152574. PMID: 36895743; PMCID: PMC9989445.
8. Piccininni C, Marra C, **Quaranta D**, Papagno C, Longo C, Sarubbo S, Zigiotto L, Luzzi S, Gainotti G. Which components of famous people recognition are lateralized? A study of face, voice and name recognition disorders in patients with neoplastic or degenerative damage of the right or left anterior temporal lobes. *Neuropsychologia*. 2023 Mar

12;181:108490. doi: 10.1016/j.neuropsychologia.2023.108490. Epub 2023 Jan 21. PMID: 36693520.

9. Olivito G, **Quaranta D**, Siciliano L, Caraglia N, Caprara A, Marra C, Leggio M, Silveri MC. The Cerebellum Is a Key Structure in the Neural Network for Mentalizing: An MRI Study in the Behavioral Variant of Frontotemporal Dementia. *Biomedicines*. 2022 Nov 11;10(11):2901. doi: 10.3390/biomedicines10112901.
10. Conca F, Esposito V, Rundo F, **Quaranta D**, Muscio C, Manenti R, Caruso G, Lucca U, Galbussera AA, Di Tella S, Baglio F, L'Abbate F, Canu E, Catania V, Filippi M, Mattavelli G, Poletti B, Silani V, Lodi R, De Matteis M, Stanzani Maserati M, Arighi A, Rotondo E, Tanzilli A, Pace A, Garramone F, Cavaliere C, Pardini M, Rizzetto C, Sorbi S, Perri R, Tiraboschi P, Canessa N, Cotelli M, Ferri R, Weintraub S, Marra C, Tagliavini F, Catricalà E, Cappa SF. Italian adaptation of the Uniform Data Set Neuropsychological Test Battery (I-UDSNB 1.0): development and normative data. *Alzheimers Res Ther*. 2022 Aug 19;14(1):113. doi: 10.1186/s13195-022-01056-x. PMID: 35982477; PMCID: PMC9389755.
11. **Quaranta D**, Di Tella S, Marra C, Gaudino S, L'Abbate F, Silveri MC. Neuroanatomical Correlates of Semantic Features of Narrative Speech in Semantic and Logopenic Variants of Primary Progressive Aphasia. *Brain Sci*. 2022 Jul 12;12(7):910. doi: 10.3390/brainsci12070910. PMID: 35884717; PMCID: PMC9320086.
12. Vecchio F, **Quaranta D**, Miraglia F, Pappaletta C, Di Iorio R, L'Abbate F, Cotelli M, Marra C, Rossini PM. Neuronavigated Magnetic Stimulation combined with cognitive training for Alzheimer's patients: an EEG graph study. *Geroscience*. 2022 Feb;44(1):159-172. doi: 10.1007/s11357-021-00508-w. Epub 2021 Dec 31. PMID: 34970718; PMCID: PMC8811083.
13. Della Pepa GM, Menna G, **Quaranta D**. Letter: Presurgical Identification of Patients With Glioblastoma at Risk for Cognitive Impairment at 3-Month Follow-up. *Neurosurgery*. 2021 Sep 15;89(4):E252. doi: 10.1093/neuros/nyab274. PMID: 34318886.
14. Piccininni C, **Quaranta D**, Gainotti G, Lacidogna G, Guglielmi V, Giovannini S, Marra C. The Destiny of Multiple Domain Amnesic Mild Cognitive Impairment: Effect of Alternative Neuropsychological Definitions and Their Adjunctive Role in Respect of Memory Impairment. *Arch Clin Neuropsychol*. 2021 Jul 19;36(5):702-710. doi: 10.1093/arclin/acia094. PMID: 33313637.
15. Della Pepa GM, D'Alessandris QG, Burattini B, **Quaranta D**, Sturiale CL, Mattogno PP, Pallini R, Olivi A. Letter to the Editor. Exploring cognitive functions in low-grade glioma surgery. *J Neurosurg*. 2021 Jun 4:1-2. doi: 10.3171/2021.2.JNS21186. Epub ahead of print. PMID: 34087797.
16. Nicoletti T, **Quaranta D**, Della Marca G, Tasca G, Gainotti G. Eyelid closing and opening disorders in patients with unilateral brain lesions: A case report with video neuroimage and a systematic review of the literature. *J Clin Neurosci*. 2021 May;87:69-73. doi: 10.1016/j.jocn.2021.02.020. Epub 2021 Mar 12. PMID: 33863537.
17. Zucca M, Isella V, Lorenzo RD, Marra C, Cagnin A, Cupidi C, Bonanni L, Laganà V, Rubino E, Vanacore N, Agosta F, Caffarra P, Sambati R, **Quaranta D**, Guglielmi V, Appollonio IM, Logroscino G, Filippi M, Tedeschi G, Ferrarese C, Rainero I, Bruni AC; SINDem COVID-19 Study Group. Being the Family Caregiver of a Patient With Dementia During the Coronavirus Disease 2019 Lockdown. *Front Aging Neurosci*. 2021 Apr 20;13:653533. doi: 10.3389/fnagi.2021.653533. PMID: 33967740; PMCID: PMC8098661.
18. 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. The Impact of COVID-19 Quarantine on Patients With Dementia and Family Caregivers: A Nation-Wide Survey. *Front Aging Neurosci*. 2021 Jan

- 18;12:625781. doi: 10.3389/fnagi.2020.625781. PMID: 33536898; PMCID: PMC7849158.
19. Marra C, Piccininni C, Masone Iacobucci G, Caprara A, Gainotti G, Costantini EM, Callea A, Venneri A, **Quaranta D**. Semantic Memory as an Early Cognitive Marker of Alzheimer's Disease: Role of Category and Phonological Verbal Fluency Tasks. *J Alzheimers Dis*. 2021;81(2):619-627. doi: 10.3233/JAD-201452. PMID: 33814440.
 20. 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, Appollonio I, Caffarra P, Pettenuzzo I, Sambati R, **Quaranta D**, Guglielmi V, Logroscino G, Filippi M, Tedeschi G, Ferrarese C, Rainero I, Bruni AC; SINDem COVID-19 Study Group. Behavioral and Psychological Effects of Coronavirus Disease-19 Quarantine in Patients With Dementia. *Front Psychiatry*. 2020 Sep 9;11:578015. doi:10.3389/fpsy.2020.578015. PMID: 33033486; PMCID: PMC7509598.
 21. Brem AK, Di Iorio R, Fried PJ, Oliveira-Maia AJ, Marra C, Profice P, **Quaranta D**, Schilberg L, Atkinson NJ, Seligson EE, Rossini PM, Pascual-Leone A. Corticomotor Plasticity Predicts Clinical Efficacy of Combined Neuromodulation and Cognitive Training in Alzheimer's Disease. *Front Aging Neurosci*. 2020 Jul 8;12:200. doi: 10.3389/fnagi.2020.00200. PMID: 32733232; PMCID: PMC7360860.
 22. Piccininni C, Gainotti G, Carlesimo GA, Luzzi S, Papagno C, Trojano L, Ferrara A, Marra C, **Quaranta D**. Naming famous people through face and voice: a normative study. *Neurol Sci*. 2020 Jul;41(7):1859-1864. doi: 10.1007/s10072-020-04272-1. Epub 2020 Feb 21. PMID: 32086684.
 23. Guglielmi V, Marra C, Picciotti PM, Masone Iacobucci G, Giovannini S, **Quaranta D**, Anzivino R, Paludetti G, Conti G. Does Hearing Loss in the Elderly Individuals Conform to Impairment of Specific Cognitive Domains? *J Geriatr Psychiatry Neurol*. 2020 Jul;33(4):231-240. doi: 10.1177/0891988719874117. Epub 2019 Sep 15. PMID: 31522629.
 24. Guglielmi V, **Quaranta D**, Mega I, Costantini EM, Carrarini C, Innocenti A, Marra C. Semantic Priming in Mild Cognitive Impairment and Healthy Subjects: Effect of Different Time of Presentation of Word-Pairs. *J Pers Med*. 2020 Jun 29;10(3):57. doi: 10.3390/jpm10030057. PMID: 32610563; PMCID: PMC7564260.
 25. Piano C, Di Stasio E, Primiano G, Janiri D, Luigetti M, Frisullo G, Vollono C, Lucchini M, Brunetti V, Monforte M, Guglielmi V, Della Marca G, Evoli A, Marra C, Mirabella M, **Quaranta D**, Ricci E, Servidei S, Silvestri G, Bellavia S, Bortolani S, Bove F, Di Iorio R, Di Paolantonio A, Genovese D, Ialongo T, Lo Monaco MR, Marotta J, Patanella AK, Perna A, Petracca M, Presicce G, Riso V, Rollo E, Romano A, Romozzi M, Sancricca C, Scala I, Spagni G, Solito M, Tricoli L, Zinzi P, Calabresi P, Bentivoglio AR. An Italian Neurology Outpatient Clinic Facing SARS-CoV-2 Pandemic: Data From 2,167 Patients. *Front Neurol*. 2020 May 29;11:564. doi: 10.3389/fneur.2020.00564. PMID: 32574249; PMCID: PMC7273723.
 26. Miraglia F, Vecchio F, Marra C, **Quaranta D**, Alù F, Peroni B, Granata G, Judica E, Cotelli M, Rossini PM. Small World Index in Default Mode Network Predicts Progression from Mild Cognitive Impairment to Dementia. *Int J Neural Syst*. 2020 Feb;30(2):2050004. doi: 10.1142/S0129065720500045. Epub 2020 Jan 20. PMID: 31957512.
 27. **Quaranta D**, Piccininni C, Caprara A, Malandrino A, Gainotti G, Marra C. Semantic Relations in a Categorical Verbal Fluency Test: An Exploratory Investigation in Mild Cognitive Impairment. *Front Psychol*. 2019 Dec 17;10:2797. doi: 10.3389/fpsyg.2019.02797. PMID: 31920840; PMCID: PMC6927990.
 28. Moreno-Martínez FJ, **Quaranta D**, Gainotti G. What a pooled data study tells us about the relationships between gender and knowledge of semantic categories. *J Clin Exp Neuropsychol*. 2019 Aug;41(6):634-643. doi: 10.1080/13803395.2019.1602111. Epub 2019 Apr 17. PMID: 30995891.

29. Nociti V, Santoro M, **Quaranta D**, Losavio FA, De Fino C, Giordano R, Palomba NP, Rossini PM, Guerini FR, Clerici M, Caputo D, Mirabella M. BDNF rs6265 polymorphism methylation in Multiple Sclerosis: A possible marker of disease progression. PLoS One. 2018 Oct 23;13(10):e0206140. doi: 10.1371/journal.pone.0206140. Erratum in: PLoS One. 2019 Feb 21;14(2):e0212906. PMID: 30352103; PMCID: PMC6198951.
30. Venneri A, Jahn-Carta C, de Marco M, **Quaranta D**, Marra C. Diagnostic and prognostic role of semantic processing in preclinical Alzheimer's disease. Biomark Med. 2018 Jun;12(6):637-651. doi: 10.2217/bmm-2017-0324. Epub 2018 Jun 13. PMID: 29896968.
31. Piccininni C, **Quaranta D**, Papagno C, Trojano L, Ferrara A, Luzzi S, Carlesimo GA, Marra C, Gainotti G. Famous people recognition through personal name: a normative study. Neurol Sci. 2018 Apr;39(4):663-669. doi:10.1007/s10072-018-3251-3. Epub 2018 Jan 30. PMID: 29383617.
32. **Quaranta D**, Gainotti G, Di Giuda D, Vita MG, Cocciolillo F, Lacidogna G, Guglielmi V, Masullo C, Giordano A, Marra C. Predicting progression of amnesic MCI: The integration of episodic memory impairment with perfusion SPECT. Psychiatry Res Neuroimaging. 2018 Jan 30;271:43-49. doi:10.1016/j.psychres.2017.10.008. Epub 2017 Oct 24. PMID: 29129545.
33. Piccininni C, Gainotti G, Trojano L, Luzzi S, Papagno C, Carlesimo GA, Marra C, **Quaranta D**. Item consistency in retrieving person-specific semantic information from faces and voices: An exploratory study in healthy subjects. Visual cognition 2017, DOI: 10.1080/13506285.2017.1344340
34. Vecchio F, Miraglia F, **Quaranta D**, Lacidogna G, Marra C, Rossini PM. Learning Processes and Brain Connectivity in A Cognitive-Motor Task in Neurodegeneration: Evidence from EEG Network Analysis. J Alzheimers Dis. 2018;66(2):471-481. doi: 10.3233/JAD-180342. PMID: 30282357.
35. McNulty P, Pilcher R, Ramesh R, Necuiniate R, Hughes A, Farewell D, Holmans P, Jones L; REGISTRY Investigators of the European Huntington's Disease Network (**collaborator**). Reduced Cancer Incidence in Huntington's Disease: Analysis in the Registry Study. J Huntingtons Dis. 2018;7(3):209-222. doi: 10.3233/JHD-170263. PMID: 30103338.
36. Bonanni L, Cagnin A, Agosta F, Babiloni C, Borroni B, Bozzali M, Bruni AC, Filippi M, Galimberti D, Monastero R, Muscio C, Parnetti L, Perani D, Serra L, Silani V, Tiraboschi P, Padovani A; DLB-SINdem study group (**collaborator**). The Italian dementia with Lewy bodies study group (DLB-SINdem): toward a standardization of clinical procedures and multicenter cohort studies design. Neurol Sci. 2017 Jan;38(1):83-91. doi: 10.1007/s10072-016-2713-8. Epub 2016 Sep 13. PMID: 27624723.
37. Baake V, Reijntjes RHAM, Dumas EM, Thompson JC; REGISTRY Investigators of the European Huntington's Disease Network, Roos RAC. Cognitive decline in Huntington's disease expansion gene carriers (**collaborator**). Cortex. 2017 Oct;95:51-62.
38. **Quaranta D**, Caprara A, Piccininni C, Vita MG, Gainotti G, Marra C. Standardization, Clinical Validation, and Typicality Norms of a New Test Assessing Semantic Verbal Fluency. Arch Clin Neuropsychol. 2016 Aug;31(5):434-45. doi: 10.1093/arclin/acw034. Epub 2016 Jun 26. PMID: 27353431.
39. Santoro M, Nociti V, De Fino C, Caprara A, Giordano R, Palomba N, Losavio F, Marra C, Patanella AK, Mirabella M, Gainotti G, **Quaranta D**. Depression in multiple sclerosis: effect of brain derived neurotrophic factor Val66Met polymorphism and disease perception. Eur J Neurol. 2016 Mar;23(3):630-40. doi: 10.1111/ene.12913. Epub 2016 Jan 12. Erratum in: Eur J Neurol. 2019 May;26(5):830. PMID: 26756166.
40. Vecchio F, Miraglia F, **Quaranta D**, Granata G, Romanello R, Marra C, Bramanti P, Rossini PM. Cortical connectivity and memory performance in cognitive decline: A study via graph theory from EEG data. Neuroscience. 2016 Mar 1;316:143-50. doi:

- 10.1016/j.neuroscience.2015.12.036. Epub 2015 Dec 24. PMID: 26724581.
41. **Quaranta D**, Piccininni C, Carlesimo GA, Luzzi S, Marra C, Papagno C, Trojano L, Gainotti G. Recognition disorders for famous faces and voices: a review of the literature and normative data of a new test battery. *Neurol Sci.* 2016 Mar;37(3):345-52. doi: 10.1007/s10072-015-2437-1. Epub 2015 Dec 23. PMID: 26700802.
 42. Gainotti G, **Quaranta D**, Marra C. A Comparison between Anxious-Depressive Disorders of Stroke and Multiple Sclerosis Patients, Evaluated with Specific Twin Scales. *J Trauma Stress Disor Treat* 2016 5:2.
 43. **Quaranta D**, Gainotti G, Vita MG, Lacidogna G, Scaricamazza E, Piccininni C, Marra C. Are Raw Scores on Memory Tests Better than Age- and Education- Adjusted Scores for Predicting Progression from Amnesic Mild Cognitive Impairment to Alzheimer Disease ? *Curr Alzheimer Res.* 2016;13(12):1414-1420. doi: 10.2174/1567205013666160314145522. PMID: 26971939.
 44. Marra C, Gainotti G, Fadda L, Perri R, Lacidogna G, Scaricamazza E, Piccininni C, **Quaranta D**. Usefulness of an Integrated Analysis of Different Memory Tasks to Predict the Progression from Mild Cognitive Impairment to Alzheimer's Disease: The Episodic Memory Score (EMS). *J Alzheimers Dis.* 2016;50(1):61-70. doi: 10.3233/JAD-150613. PMID: 26639965.
 45. Mariotti P, **Quaranta D**, Di Giacomo R, Bentivoglio AR, Mazza M, Martini A, Canestri J, Della Marca G. Rapid eye movement sleep behavior disorder: a window on the emotional world of Parkinson disease. *Sleep.* 2015 Feb 1;38(2):287-94. doi: 10.5665/sleep.4416. PMID: 25325501; PMCID: PMC4288610.
 46. **Quaranta D**, Vita MG, Bizzarro A, Masullo C, Piccininni C, Gainotti G, Marra C. Cognitive and behavioral determinants of psychotic symptoms in Alzheimer's disease. *Dement Geriatr Cogn Disord.* 2015;39(3-4):194-206. doi: 10.1159/000369161. Epub 2015 Jan 7. PMID: 25572669.
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number does not influence the age of onset in Huntington's Disease. *J Huntingtons Dis.* 2013;2(1):107-24.

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