



## Antonina Luca

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### WORK EXPERIENCE

31/08/2018 – CURRENT Catania, Italy

**UNIVERSITY RESEARCHER IN NEUROLOGY-FIXED TERM TYPE A**

30/11/2018 – CURRENT Catania, Italy

**NEUROLOGIST AT THE NEUROLOGIC UNIT OF THE UNIVERSITY HOSPITAL POLICLINICO-SAN MARCO OF CATANIA**

30/11/2018 – CURRENT Catania, Italy

**HEAD OF THE "NEUROPSYCHOLOGY AND DEMENTIA" CENTER, UNIVERSITY HOSPITAL "POLICLINICO-SAN MARCO"**

### EDUCATION AND TRAINING

22/07/2007 Catania, Italy

**MEDICINE DEGREE** University of Catania

**Address** Catania, Italy | **Final grade** 110/110 e lode

10/03/2011 Catania, Italy

**PHD AUTONOMIC NERVOUS SYSTEM MEDICINE** University of Catania

**Address** Catania, Italy

13/07/2017 Catania, Italy

**SPECIALIZATION DEGREE IN NEUROLOGY** University of Catania

**Address** Catania, Italy | **Final grade** 70/70 e lode

10/05/2019 Roma, Italy

**MASTER "DIAGNOSIS AND THERAPY OF ALZHEIMER'S DISEASE AND OTHER FORMS OF DEMENTIA"** University of Rome, Tor Vergata

**Address** Roma, Italy | **Final grade** 110/110 e lode

### ADDITIONAL INFORMATION

#### INDEXED ON SCOPUS SCIENTIFIC PUBLICATIONS

##### Scientific publications

1 Calandra C, Bellia M, Guglielmino C, Pistorio E, **Luca A.** Burnout in the healthcare workers in the anesthesia and resuscitation, accident and emergency and psychiatry units of some city hospitals in Catania. Rivista di Psichiatria, 2007;4, 263-271.

2 Calandra C, Inga F, **Luca A.** Psychiatric emergencies and post-traumatic stress disorder. A clinical case discussion. Rivista di psichiatria, vol.42, n.5, pp 341-345,2007.

- 3 Contrafatto D, Mostile G, Nicoletti A, Raciti L, **Luca A**, Dibilio V, Lanzafame S, Distefano A, Drago F, Zappia M. Single photon emission computed tomography striatal asymmetry index may predict dopaminergic responsiveness in Parkinson disease. *Clin Neuropharmacol*. 2011 Mar-Apr;34(2):71-3. doi: 10.1097/WNF.0b013e318211f945.
- 4 Pistorio E, Luca M, **Luca A**, Messina V, Calandra C. Autonomic nervous system and lipid metabolism: findings in anxious-depressive spectrum and eating disorders. *Lipids Health Dis*. 2011 Oct 28;10:192. doi: 10.1186/1476-511X-10-192.
- 5 Contrafatto D, Mostile G, Nicoletti A, Dibilio V, Raciti L, Lanzafame S, **Luca A**, Distefano A, Zappia M. [(123)I]FP-CIT-SPECT asymmetry index to differentiate Parkinson's disease from vascular parkinsonism. *Acta Neurol Scand*. 2012 Jul;126(1):12-6. doi: 10.1111/j.1600-0404.2011.01583.x.
- 6 Luca M, Vecchio C, **Luca A**, Calandra C. Haloperidol augmentation of fluvoxamine in skin picking disorder: a case report. *J Med Case Rep* 2012;6:219.
- 7 Luca M, **Luca A**, Calandra C. Borderline personality disorder and depression: an update. *Psychiatr Q*. 2012 Sep;83(3):281-92. doi: 10.1007/s1126-011-9198-7.
- 8 Luca M, **Luca A**, Celia A, Calandra C (2013). Prostaglandins Pathway as a Possible Biological Link Between Cancer and Major Depression. *Current angiogenesis* 2013,2:143-148.
- 9 Luca M, **Luca A**, Calandra C. Accelerated aging in major depression: the role of nitro-oxidative stress. *Oxid Med Cell Longev*. 2013;2013:230797. doi: 10.1155/2013/230797.
- 10 Nicoletti A, **Luca A**, Raciti L, Contrafatto D, Bruno E, Dibilio V, Sciacca G, Mostile G, Petralia A, Zappia M. Obsessive compulsive personality disorder and Parkinson's disease. *PLoS One*. 2013;8(1):e54822. doi: 10.1371/journal.pone.0054822. **Nicoletti A and Luca A equally contributed.**

#### Scientific publications

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- 11 Luca M, Prossimo G, Messina V, **Luca A**, Romeo S, Calandra C. Epidemiology and treatment of mood disorders in a day hospital setting from 1996 to 2007: an Italian study. *Neuropsychiatr Dis Treat*. 2013;9:169-76. doi: 10.2147/NDT.S39227.
- 12 Luca M, **Luca A**, Calandra C. Psychomotor retardation and externally oriented thinking in major depression. *Neuropsychiatr Dis Treat*. 2013;9:759-66. doi: 10.2147/NDT.S44650.
- 13 **Luca A**, Luca M, Calandra C. Sleep disorders and depression: brief review of the literature, case report, and nonpharmacologic interventions for depression. *Clin Interv Aging*. 2013;8:1033-9. doi: 10.2147/CIA.S47230.
- 14 Luca M, Bordone A, **Luca A**, Patti A, Sortino G, Calandra C. Clinical features and imaging findings in a case of Capgras syndrome. *Neuropsychiatr Dis Treat*. 2013;9:1095-9. doi: 10.2147/NDT.S47293.
- 15 Girlanda F, Cipriani A, Agrimi E, Appino MG, Barichello A, Beneduce R, Bighelli I, Bisoffi G, Bisogno A, Bortolaso P, Boso M, Calandra C, Cascone L, Castellazzi M, Corbascio C, Parise VF, Gardellin F, Gennaro D, Hanife B, Lintas C, Lorusso M, **Luca A**, Luca M et al. Effectiveness of lithium in subjects with treatment-resistant depression and suicide risk: results and lessons of an underpowered randomised clinical trial. *BMC Res Notes* 2014;7:731.
- 16 Nicoletti A, **Luca A**, Luca M, Mostile G, Sciacca G, Petralia A, Zappia M. Obsessive-compulsive personality disorder in drug-naïve Parkinson's disease patients *J Neurol*. 2015 Feb;262(2):485-6. doi: 10.1007/s00415-014-7617-z. **Nicoletti A and Luca A equally contributed.**
- 17 Tinazzi M, Morgante F, Matinella A, Bovi T, Cannas A, Solla P, Marrosu F, Nicoletti A, Zappia M, **Luca A**, Di Stefano A, Morgante L, Pacchetti C, Minafra B, Sciarretta M, Dall'Occhio C, Rossi S, Olivelli M, Ceravolo R, Frosini D, Cipriani A, Barbui C. Imaging of the dopamine transporter predicts pattern of disease progression and response to levodopa in patients with schizophrenia and parkinsonism: a 2-year follow-up multicenter study. *Schizophr Res*. 2014;152(2-3):344-9. doi: 10.1016/j.schres.2013.11.028.
- 18 Luca M, Bellia S, Bellia M, **Luca A**, Calandra C. Prevalence of depression and its relationship with work characteristics in a sample of public workers. *Neuropsychiatr Dis Treat*. 2014 Mar 25;10:519-25. doi: 10.2147/NDT.S56989.
- 19 Luca M, **Luca A**, Grasso CM, Calandra C. Nothing to smile about. *Neuropsychiatr Dis Treat*. 2014 Oct 23;10:1999-2008. doi: 10.2147/NDT.S70127. eCollection 2014.
- 20 Mostile G, Nicoletti A, Dibilio V, **Luca A**, Pappalardo I, Giuliano L, Cicero CE, Sciacca G, Raciti L, Contrafatto D, Bruno E, Sofia V, Zappia M. Electroencephalographic lateralization, clinical correlates and pharmacological response in untreated Parkinson's disease. *Parkinsonism Relat Disord*. 2015;21(8):948-53. doi: 10.1016/j.parkreldis.2015.06.006.

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- 21 **Luca A**, Luca M, Di Mauro M, Palermo F, Rampulla F, Calandra C. Alexithymia, more than depression, influences glycaemic control of type 2 diabetic patients. *J Endocrinol Invest*. 2015 Jun;38(6):653-60. doi: 10.1007/s40618-015-0238-2.
- 22 **Luca A**, Luca M, Calandra C. Eating Disorders in Late-life. *Aging Dis*. 2014 Feb 5;6(1):48-55. doi: 10.14336/AD.2014.0124.

- 23 Luca M, **Luca A**, Calandra C. The role of oxidative damage in the pathogenesis and progression of Alzheimer's Disease and Vascular Dementia. *Oxid Med Cell Longev*. 2015;2015:504678. doi: 10.1155/2015/504678. **Luca M and Luca A equally contributed.**
- 24 Sciacca G, Maci T, Mostile G, Capuana ML, **Luca A**, Raciti L, Sanfilippo C, Le Pira F, Nicoletti A, Zappia M. A case of Apraxic Agraphia in a patient with Progressive Supranuclear Palsy. *Mov Disord Clinical Practice*, vol 2 (3): 308-309, 2015.
- 25 Raciti L, Nicoletti A, Mostile G, Bonomo R, Contrafatto D, Dibilio V, **Luca A**, Sciacca G, Cicero CE, Vasta R, Zappia M. Validation of the UPDRS section IV for detection of motor fluctuations in Parkinson's disease. *Parkinsonism Relat Disord*. 2016;27:98-101. doi:10.1016/j.parkreldis.2016.03.008.
- 26 **Luca A**, Calandra C, Luca M. Gsk3 Signalling and Redox Status in Bipolar Disorder: Evidence from Lithium Efficacy. *Oxid Med Cell Longev*. 2016;2016:3030547. doi: 10.1155/2016/3030547.
- 27 Barbui C, Bighelli I, Carrà G, Castellazzi M, Lucii C, Martinotti G, Nosè M, Ostuzzi G; **STAR NETWORK INVESTIGATORS**. Antipsychotic Dose Mediates the Association between Polypharmacy and Corrected QT Interval. *PLoS One*. 2016;11(2):e0148212. doi: 10.1371/journal.pone.0148212.
- 28 Sciacca G, Giliberto C, **Luca A**, Nicoletti A, Zappia M. Seated Men Walking: a provocation maneuver for parkinsonian tremor. *Mov Disord Clinical Practice*, vol 3 (2):212-213, 2016.
- 29 Mostile G, Nicoletti A, Cicero CE, Cavallaro T, Bruno E, Dibilio V, **Luca A**, Sciacca G, Raciti L, Contrafatto D, Chiaramonte I, Zappia M. Magnetic resonance parkinsonism index in progressive supranuclear palsy and vascular parkinsonism. *Neurol Sci*. 2016;37(4):591-5. doi: 10.1007/s10072-016-2489-x.
- 30 Carrà G, Crocamo C, Bartoli F, Lax A, Tremolada M, Lucii C, Martinotti G, Nosè M, Bighelli I, Ostuzzi G, Castellazzi M, Clerici M, Barbui C; **STAR Network Group**. First-generation antipsychotics and QTc: any role for mediating variables? *Hum Psychopharmacol*. 2016 Jul;31(4):313-8. doi: 10.1002/hup.2540.

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- 32 Luca M, **Luca A**, Musumeci ML, Fiorentini F, Micali G, Calandra C. Psychopathological variables and sleep quality in psoriatic patients. *Int. J. Mol. Sci*. 2016, 17, 1184. pii: E1184. doi: 10.3390/ijms17071184.
- 33 Nicoletti A, **Luca A**, Luca M, Donzuso G, Mostile G, Raciti L, Contrafatto D, Dibilio V, Sciacca G, Cicero CE, Vasta R, Petralia A, Zappia M. Obsessive compulsive personality disorder in Progressive Supranuclear Palsy, Multiple System Atrophy and Essential Tremor. *Parkinsonism Relat Disord*. 2016 Sep;30:36-9. doi: 10.1016/j.parkreldis.2016.06.015. **Nicoletti A and Luca A equally contributed.**
- 34 Nosè M, Bighelli I, Castellazzi M, Martinotti G, Carrà G, Lucii C, Ostuzzi G, Sozzi F, Barbui C; **STAR NETWORK GROUP**. Prevalence and correlates of QTc prolongation in Italian psychiatric care: cross-sectional multicentre study. *Epidemiol Psychiatr Sci*. 2016;25(6):532-540.
- 35 Nicoletti A, **Luca A**, Luca M, Donzuso G, Mostile G, Raciti L, Contrafatto D, Dibilio V, Sciacca G, Cicero CE, Vasta R, Petralia A, Zappia M. Response to the letter: "Obsessive compulsive personality disorder in Progressive Supranuclear Palsy" by Golimstok. *Parkinsonism Relat Disord*. 2016 Dec;33:144-145. doi: 10.1016/j.parkreldis.2016.09.020. **Nicoletti A and Luca A equally contributed.**
- 36 Mostile G, Nicoletti A, Dibilio V, **Luca A**, Raciti L, Sciacca G, Cicero CE, Vasta R, Donzuso G, Contrafatto D, Zappia M. Switching L-dopa Therapy from Pulsatile to Pulse Administration Reduces Motor Complications in Parkinson's Disease. *Clin Neuropharmacol*. 2017;40(1):6-10. doi: 10.1097/WNF.000000000000186.
- 37 Vasta R, Nicoletti A, Mostile G, Dibilio V, Sciacca G, Contrafatto D, Cicero CE, Raciti L, **Luca A**, Zappia M. Side effects induced by the acute levodopa challenge in Parkinson's Disease and atypical parkinsonisms. *PLoS One*. 2017 Feb 16;12(2):e0172145. doi: 10.1371/journal.pone.0172145.
- 38 Dibilio V, Nicoletti A, Mostile G, Portaro G, **Luca A**, Patti F, Zappia M. Computer-assisted cognitive rehabilitation on freezing of gait in Parkinson's disease: A pilot study. *Neurosci Lett*. 2017;654:38-41. doi: 10.1016/j.neulet.2017.06.006.
- 39 Bonomo R, Mostile G, Raciti L, Contrafatto D, Dibilio V, **Luca A**, Sciacca G, Cicero CE, Vasta R, Nicoletti A, Zappia M. Quantitative estimation of motor fluctuations in Parkinson's disease. *Parkinsonism Relat Disord*. 2017;42:34-39. doi: 10.1016/j.parkreldis.2017.05.027.
- 40 Dibilio V, Nicoletti A, Mostile G, Toscano S, **Luca A**, Raciti L, Sciacca G, Vasta R, Cicero CE, Contrafatto D, Zappia M. Dopaminergic and non-dopaminergic gait components assessed by instrumented timed up and go test in Parkinson's disease. *J Neural Transm (Vienna)*. 2017;124(12):1539-1546. doi:10.1007/s00702-017-1794-8.

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- 41 **Luca A**, Calandra C, Luca M. Molecular Bases of Alzheimer's Disease and Neurodegeneration: The Role of Neuroglia. *Aging Dis*. 2018;9(6):1134-1152. doi: 10.14336/AD.2018.0201.
- 42 Monastero R, Cicero CE, Baschi R, Davi M, **Luca A**, Restivo V, Zangara C, Fierro B, Zappia M, Nicoletti A. Mild cognitive impairment in Parkinson's disease: the Parkinson's disease cognitive study (PACOS). *J Neurol*. 2018;265(5):1050-1058. doi: 10.1007/s00415-018-8800-4.

- 43 **Luca A**, Nicoletti A, Mostile G, Raciti L, Dibilio V, Donzuso G, Zappia M. Personality and Parkinson's disease: A meta-analysis. *Parkinsonism Relat Disord.* 2018;51:115. doi:10.1016/j.parkreldis.2018.02.042.
- 44 Sciacca G, Nicoletti A, Mostile G, **Luca A**, Raciti L, Dibilio V, Drago F, Salomone S, Zappia M. Blink reflex recovery cycle to differentiate progressive supranuclear palsy from corticobasal syndrome. *Eur J Neurol.* 2018;25(8):1100-e85. doi: 10.1111/ene.13673.
- 45 **Luca A**, Nicoletti A, Mostile G, Sciacca G, Dibilio V, Cicero CE, Raciti L, Donzuso G, Zappia M. Temperament traits and executive functions in Parkinson's disease. *Neurosci Lett.* 2018; 25;684:25-28. doi: 10.1016/j.neulet.2018.06.040.
- 46 Nicoletti A, **Luca A**, Baschi R, Cicero CE, Mostile G, Davi M, Pilati L, Restivo V, Zappia M, Monastero R. Incidence of Mild Cognitive Impairment and Dementia in Parkinson's disease: the Parkinson's disease cognitive Impairment Study. *Frontiers in Aging Neurosciences*, 2019; 8;11:21. doi: 10.3389/fnagi.2019.00021. **Nicoletti A and Luca A equally contributed.**
- 47 Barbagallo C, Mostile G, Baglieri G, Giunta F, **Luca A**, Raciti L, Zappia M, Purrello M, Ragusa M, Nicoletti A. Specific Signatures of Serum miRNAs as Potential Biomarkers to Discriminate Clinically Similar Neurodegenerative and Vascular-Related Diseases. *Cell Mol Neurobiol.* 2019. doi: 10.1007/s10571-019-00751-y.
- 48 Baschi R, Restivo V, Nicoletti A, Cicero CE, **Luca A**, Recca D, Zappia M, Monastero R. Mild Behavioral Impairment in Parkinson's Disease: Data from the Parkinson's Disease Cognitive Impairment Study (PACOS). *J Alzheimers Dis.* 2019;68(4):1603-1610. doi: 10.3233/JAD-181117.
- 49 **Luca A**, Nicoletti A, Mostile G, Zappia M. The Parkinsonian Personality: More Than Just a "Trait". *Front Neurol.* 2019;9:1191. doi:10.3389/fneur.2018.01191.
- 50 Luca M, Di Mauro M, Di Mauro M, **Luca A**. Gut Microbiota in Alzheimer's Disease, Depression, and Type 2 Diabetes Mellitus: The Role of Oxidative Stress. *Oxid Med Cell Longev.* 2019;2019:4730539. doi: 10.1155/2019/4730539.

#### Scientific publications

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- 51 Mostile G, Giuliano L, Dibilio V, **Luca A**, Cicero CE, Sofia V, Nicoletti A, Zappia M. Complexity of electrocortical activity as potential biomarker in untreated Parkinson's disease. *J Neural Transm (Vienna).* 2019;126(2):167-172. doi: 10.1007/s00702-018-1961-6.
- 52 Luca M, **Luca A**. Comment to the contribution, "Assessment and treatment of trichotillomania (hair pulling disorder) and excoriation (skin picking) disorder," by Jones and colleagues. *Clin Dermatol.* 2019;37(3):289-290. doi: 10.1016/j.clindermatol.2019.01.010.
- 53 Raciti L, Nicoletti A, Mostile G, Bonomo R, Dibilio V, Donzuso G, Sciacca G, Cicero CE, **Luca A**, Zappia M. Accuracy of MDS-UPDRS section IV for detecting motor fluctuations in Parkinson's disease. *Neurol Sci.* 2019;40(6):1271-1273. doi: 10.1007/s10072-019-03745-2.
- 54 Mostile G, Giuliano L, Monastero R, **Luca A**, Cicero CE, Donzuso G, Dibilio V, Baschi R, Terranova R, Restivo V, Sofia V, Zappia M, Nicoletti A. Electrocortical networks in Parkinson's disease patients with Mild Cognitive Impairment. The PaCoS study. *Parkinsonism Relat Disord.* 2019;64:156-162. doi: 10.1016/j.parkreldis.2019.03.027.
- 55 Nicoletti A, Cicero CE, Mostile G, Giuliano L, **Luca A**, Zappia M. Comment to: Trace elements in ALS patients and their relationships with clinical severity, by Oggiano R. et al. *Chemosphere.* 2019;233:986-987. doi: 10.1016/j.chemosphere.2019.02.112.6.
- 56 Cicero CE, Raciti L, Monastero R, Mostile G, Donzuso G, Sciacca G, **Luca A**, Terravecchia C, Giuliano L, Baschi R, Davi M, Zappia M, Nicoletti A. Cardiovascular autonomic function and MCI in Parkinson's disease. *Parkinsonism Relat Disord.* 2019;69:55-58. doi: 10.1016/j.parkreldis.2019.10.023.
- 57 Luca M, **Luca A**. Oxidative Stress-Related Endothelial Damage in Vascular Depression and Vascular Cognitive Impairment: Beneficial Effects of Aerobic Physical Exercise. *Oxidative Medicine and Cellular Longevity*, Article ID 8067045, 6,2019. <https://doi.org/10.1155/2019/8067045>.
- 58 Luca M, **Luca A**. Comments on the Article "Lithium Carbonate in a Poststroke Population Exploratory Analyses of Neuroanatomical and Cognitive Outcomes" by Sun and Colleagues. *J Clin Psychopharmacol.* 2020;40(1):103-104. doi:10.1097/JCP.0000000000001166.
- 59 Mostile G, Portaro G, Certo F, **Luca A**, Manna R, Terranova R, Altieri R, Nicoletti A, Barbagallo GMV, Zappia M. iNPH with parkinsonism: response to lumbar CSF drainage and ventriculoperitoneal shunting. *J Neurol.* 2020. doi: 10.1007/s00415-020-10267-x.
- 60 Nicoletti A, **Luca A**, Baschi R, Cicero CE, Mostile G, Davi M, La Bianca G, Restivo V, Zappia M, Monastero R. Vascular risk factors, white matter lesions and cognitive impairment in Parkinson's disease: the PACOS longitudinal study. *J Neurol.* 2020;31. doi: 10.1007/s00415-020-10189-8. **Nicoletti and Luca equally contributed.**

#### Scientific publications

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- 61 Luca M, Chattipakorn SC, Sriwichaiin S, **Luca A**. Cognitive-Behavioural Correlates of Dysbiosis: A Review. *Int. J. Mol. Sci.* 2020, 21, 4834.
- 62 Rascunà C, Russo A, Terravecchia C, Castellino N, Avitabile T, Bonfiglio V, Fallico M, Chisari CG, Cicero CE, Grillo M, Longo A, **Luca A**, Mostile G, Zappia M, Reibaldi M and Nicoletti A (2020) Retinal Thickness and

Microvascular Pattern in Early Parkinson's Disease. *Front. Neurol.* 11:533375. doi: 10.3389/fneur.2020.533375.

63 Baschi R, **Luca A**, Nicoletti A, Caccamo M, Cicero CE, D'Agate C, Di Giorgi L, La Bianca G, Lo Castro T, Zappia M and Monastero R (2020) Changes in Motor, Cognitive, and Behavioral Symptoms in Parkinson's Disease and Mild Cognitive Impairment During the COVID-19 Lockdown. *Front. Psychiatry* 11:590134. doi: 10.3389/fpsyt.2020.590134. **Baschi and Luca equally contributed.**

64 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; 9:11:578015. doi: 10.3389/fpsyt.2020.578015.

65 Luca M, Guzik T, **Luca A**. Oxidative Stress as a Link between Cerebrocardiovascular and Psychiatric Disorders. *Oxid Med Cell Longev.* 2020;7:2020:5685317. doi: 10.1155/2020/5685317

66 **Luca A**, Monastero R, Baschi R, Cicero CE, Mostile G, Davì M, Restivo V, Zappia M, Nicoletti A. Cognitive impairment and levodopa induced dyskinesia in Parkinson's disease: a longitudinal study from the PACOS cohort. *Scientific Reports* 2021; 11:867. <https://doi.org/10.1038/s41598-020-79110-7>

67. Donzuso G, Monastero R, Cicero CE, **Luca A**, Mostile G, Giuliano L, Baschi R, Caccamo M, Gagliardo C, Palmucci S, Zappia M, Nicoletti A. Neuroanatomical changes in early Parkinson's disease with mild cognitive impairment: a VBM study; the Parkinson's Disease Cognitive Impairment Study (PaCoS). *Neurol Sci* (2021). <https://doi.org/10.1007/s10072-020-05034-9>

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68. Mostile G, Terranova R, Rascunà C, Terravecchia C, Cicero CE, Giuliano L, Davì M, Chisari C, **Luca A**, Preux PM, Jankovic J, Zappia M, Nicoletti A. Clinical-Instrumental patterns of neurodegeneration in Essential Tremor: A data-driven approach. *Parkinsonism Relat Disord.* 2021;87:124-129. doi: 10.1016/j.parkreldis.2021.05.011

69. Cicero CE, Giuliano L, Sgroi R, Squillaci R, Terravecchia C, Vancheri E, Todaro V, Reitano P, Rizzo S, **Luca A**, Mostile G, Paradisi V, Zappia M, Nicoletti A; Italian Society of General Medicine (SIMG) of Catania Study Group. Prevalence of isolated RBD in the city of Catania, Italy: a population-based study. *J Clin Sleep Med.* 2021. doi: 10.5664/jcsm.9416.

70. **Luca A**, Nicoletti A, Donzuso G, Terravecchia C, Cicero CE, D'Agate C, Rascunà C, Manna R, Mostile G, Zappia M. Phonemic Verbal Fluency and Midbrain Atrophy in Progressive Supranuclear Palsy. *J Alzheimers Dis.* 2021;80(4):1669-1674. doi: 10.3233/JAD-210023.

71. **Luca A**, Giuliano L, Manna R, D'Agate C, Maira G, Sofia V, Nicoletti A, Zappia M. Impulsivity traits in eyelid myoclonia with absences. *Seizure.* 2021 Oct;91:393-396. doi: 10.1016/j.seizure.2021.07.006.

72. **Luca A**, Nicoletti A, Zappia M. Neuroticism and Risk of Parkinson's Disease: A Meta-Analysis. *Mov Disord.* 2021 Sep;36(9):2215. doi: 10.1002/mds.28746.

73. 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.

74. **Luca A**, Donzuso G, D'Agate C, Terravecchia C, Cicero Edoardo C, Mostile G, Sciacca G, Nicoletti A, Zappia M. Verbal Reasoning Impairment in Parkinson's Disease. *Behav Neurol.* 2022 Dec 10;2022:3422578. doi: 10.1155/2022/3422578.

75. Mostile G, Geroin C, Erro R, **Luca A**, Marcuzzo E, Barone P, et al. Data-driven clustering of combined Functional Motor Disorders based on the Italian registry. *Front Neurol.* 2022 Nov 28;13:987593. doi: 10.3389/fneur.2022.987593.

76. Maggio MG, **Luca A**, D'Agate C, Italia M, Calabrò RS, Nicoletti A. Feasibility and usability of a non-immersive virtual reality tele-cognitive app in cognitive rehabilitation of patients affected by Parkinson's disease. *Psychogeriatrics.* 2022 Nov;22(6):775-779. doi: 10.1111/psyg.12880.

76. Donzuso G, Sciacca G, **Luca A**, Cicero CE, Mostile G, Nicoletti A, Zappia M. Corticobasal syndrome and Parkinson's disease at the beginning: asymmetrical patterns of MRI and Blink Reflex for early diagnosis. *J Neural Transm (Vienna).* 2022 Dec;129(12):1427-1433. doi: 10.1007/s00702-022-02557-7. here the description...

### Scientific publications

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77. **Luca A**, Cicero CE, Giuliano L, Sgroi R, Vancheri E, Terravecchia C, Squillaci R, Rascunà C, Donzuso G, Mostile G, Sciacca G, Zappia M, Nicoletti A. Obsessive-compulsive personality disorder in rapid eye movement sleep behavior disorder. *Sci Rep.* 2022 Feb 14;12(1):2401. doi: 10.1038/s41598-022-06424-z.

78. **Luca A**, Monastero R, Cicero CE, Baschi R, Donzuso G, Mostile G, Restivo V, Di Giorgi L, Caccamo M, Zappia M, Nicoletti A. Executive functioning and serum lipid fractions in Parkinson's disease—a possible sex-effect: the PACOS study. *J Neural Transm (Vienna).* 2022 Mar;129(3):287-293. doi: 10.1007/s00702-022-02460-1.

79. **Luca A**, Squillaci R, Terravecchia C, Contrafatto F, Reggio E, Nicoletti A, Zappia M. Pure sensitive chronic inflammatory axonal polyneuropathy following Pfizer COVID-19 vaccine. *Neurol Sci*. 2022 Feb;43(2):1431-1433. doi: 10.1007/s10072-021-05696-z.
80. Cicero CE, Donzuso G, **Luca A**, Davì M, Baschi R, Mostile G, Giuliano L, Palmucci S, Salerno A, Monastero R, Nicoletti A, Zappia M. Morphometric magnetic resonance imaging cortico-subcortical features in Parkinson's disease with mild cognitive impairment. *Eur J Neurol*. 2022 Nov;29(11):3197-3204. doi: 10.1111/ene.15489.
81. Cicero CE, Monastero R, Terravecchia C, Donzuso G, **Luca A**, Baschi R, Caccamo M, Mostile G, Giuliano L, Zappia M, Nicoletti A. Influence of Drugs on Mild Cognitive Impairment in Parkinson's Disease: Evidence from the PACOS Study. *Curr Neuropharmacol*. 2022;20(5):998-1003. doi: 10.2174/1570159X20666211223122800.

## CLINICAL TRIALS, SUB-INVESTIGATOR

### Clinical trials, Sub-investigator

- "Long-term safety study of open label Pramipexole extended release (ER) in patients with advanced Parkinson's Disease" (Boehringer Ingelheim 248.634. Codice EudraCT: 2007-004235-37). Subinvestigator.
- "A Phase III, Double-blind, Placebo-controlled Randomised Trial to Determine the Efficacy and Safety of a Low (50 mg/Day) and High (100 mg/Day) Dose of Safinamide, as add-on Therapy, in Subjects With Early Idiopathic Parkinson's Disease Treated With a Stable Dose of a Single Dopamine Agonist Parkinson's Disease " (Studio Merck-Serono 27918. Codice EudraCT: 2007-002963-28). Subinvestigator.
- "A phase III, double-blind, placebo-controlled extension trial to investigate the long-term efficacy and safety of low (50 mg/day) and high (100 mg/day) dose safinamide, as add-on therapy in subjects with early idiopathic Parkinson's disease treated with a stable dose of a single dopamine agonist (Merk Serono 27938. Codice EudraCT: 2008-004146-88). Subinvestigator.
- "A Three-Part open label titration, open label randomized cross-over, and double observer single-blind, superiority trial of APL-130277 compared to S.C. apomorphine in levodopa responsive subjects with Parkinson's disease complicated by motor fluctuations (Sunovion. Protocol number CTH-302). Psychometric Rater

## SCIENTIFIC SOCIETIES

### Scientific societies

- Italian Society of Neurology member
- SINdem- Italian Society of Neurology, dementia section member
- SINdem- Italian Society of Neurology, dementia section member, Sicily section counselor
- Parkinson's disease and Movement disorders Accademy
- Full Individual Member of the European Academy of Neurology, EAN

## EDITORIAL BOARD

### Editorial board

- Guest Editor special issue: "Oxidative Stress as a Link between Cerebro-cardiovascular and Psychiatric disorders". *Journal: Oxidative Medicine and Cellular Longevity*. Hindawi. IF 4.868 (2018 ISI Journal Citation Reports).
- Academic Editor *Journal: PlosOne*. IF 2.776 (2018 ISI Journal Citation Reports).
- Reviewer Editor *Journal: Frontiers in Aging Neurosciences*. IF 3.633 (2018 ISI Journal Citation Reports)
- Reviewer Editor *Journal: Frontiers in Neurology, Section Dementia and neurodegenerative diseases*. IF 2.635 (2018 ISI Journal Citation Reports).
- Academic Editor *Journal: BMC Neurology*. IF: 3.1

## TEACHING

### Teaching

- Professor of Neurology at the Motor and Sport Activities Sciences Degree, University of Catania
- Professor of Neurology at the Neurology School, University of Catania
- Professor of Neurology at the Nurses School, Univerisity of Catania

*Luca A*  
*25/01/2023*