CURRICULUM VITAE

Leonor Correia Guedes

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Name: Maria Leonor Brito de Arriaga Correia Guedes Möller Miranda

Date of birth: 28th April 1973

Nationality: Portuguese

Marital Status: Married, 4 children

Professional address: Department of Neurosciences and Mental Health, Neurology, Santa Maria Hospital, CHLN, Av. Prof. Egas Moniz 1649-028 Lisbon, Portugal.

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Portuguese Medical Association number: 38114

1. Current positions

- Neurologist at the Department of Neurosciences and Mental Health, Neurology Department, Hospital de Santa Maria, Lisbon, Portugal (2010-)
- Founder and coordinator of the Neurogenetic Movement Disorders Outpatient Clinic of the Neurology Department of Hospital de Santa Maria, Lisbon (2010-)
- National Coordinator of the European Huntington's disease Network (2010-)
- Clinical research investigador at the Joaquim Ferreira Lab. - Clinical Pharmacology, Instituto de Medicina Molecular, Lisbon, Portugal (2013-)
- Neurology fellowship supervisor (2013-)
- Neurologist at the Campus Neurológico Senior (CNS), Torres Vedras (2014-)
- Member of the Hospital de Santa Maria Hereditary Metabolic Disorders National Reference Center, Lisbon (2016-)
- Member of the Scientific and Bioethics Advisory Committee of the European Huntington's disease Network (2016-)
- Member of the Scientific Commission of the Biobank of the Instituto de Medicina Molecular (2016-)
- Principal Investigator of the Movement Disorders Biobank of the Instituto de Medicina Molecular, Lisbon (2017-)

2. Training and education

- PhD in Neuroscience by the Faculty of Medicine, University of Lisbon (2009-2017) (Unanimously approved with distinction and praise)

- Master Degree in Neuroscience by the Faculty of Medicine, University of Lisbon (2003-2009) (20/20)
- Neurology Fellowship, Neurology Department, Santa Maria University Hospital (2003-2009) (18.5/20)
- Student at the Medical Genetics Department of the Erasmus Medical Centre, Rotterdam (2008).
- General Medical Fellowship at the Hospital the Santa Maria, Lisbon (1998-2000)
- Licenced in Medicine by the Faculty of Medicine, University of Lisbon (1992-1998) (16/20)
- Elective program student in the Neurology Department of Addenbrook's Hospital, Medical School of the University of Cambridge, England (1998)

3. Previous positions

- Monitor at the Biochemical Department of the Faculty of Medicine, University of Lisbon (1993-1994).
- Medical Doctor of the Portuguese Air Force (2000 -2009).
- Clinical research investigator at the Neurological Clinical Research Unit, Centro de Estudos Egas Moniz, Faculty of Medicine, University of Lisbon (2001-2013)
- Responsible for the subject of Neurology in the Superior Course of Speech Therapy (Superior School of Health of Alcoitão) (2005-2008).
- Co-responsible for the subject of Clinical Pharmacology of the Physiotherapy Superior Course (Superior School of Health of Alcoitão) (2007-2008).

4. Research Projects

"Genetic susceptibility factors in Parkinson's disease": Co-investigator. Centro de Estudos Egas Moniz, Faculty of Medicine, University of Lisbon, Portugal; Neurology Department, Hospital de Santa Maria, Lisbon, Portugal; Erasmus Medical Centre, Rotterdam, Netherlands. Principal Investigator (PI): Prof Joaquim Ferreira, Prof Vincenzo Bonifati.

"Prevalence of LRRK2 mutations in familial and sporadic Parkinson's disease in Portugal": Co-investigator. Centro de Estudos Egas Moniz, Faculty of Medicine, University of Lisbon; Neurology Department, Hospital de Santa Maria, Lisbon, Portugal; Erasmus Medical Centre, Rotterdam, Netherlands. PI: Prof. Joaquim Ferreira, Prof Vincenzo Bonifati.

"Proteomics in Parkinson's disease": Co-investigator. Centro de Estudos Egas Moniz, Faculty of Medicine, University of Lisbon; Neurology Department, Hospital de Santa Maria, Lisbon, Portugal; Science Institute of the Gulbenkian Foundation, Portugal. PI: Prof. Joaquim Ferreira and Prof. Sofia Oliveira.

"Slow and Rapid Progression Parkinson's Disease: Molecular Determinants and Biomarkers". Co-investigator. Centro de Estudos Egas Moniz, Faculty of Medicine, University of Lisbon; Neurology Department, Hospital de Santa Maria, Lisbon, Portugal; Cell and Molecular Neuroscience Unit, Instituto de Medicina Molecular, Lisbon, Portugal. PI: Prof. Joaquim Ferreira; Prof Tiago Fleming Outeiro.

"MicroRNAs in Parkinson's disease". Co-investigator. Centro de Estudos Egas Moniz, Medical School of the University of Lisbon, Portugal; Neurology Department, Hospital de Santa Maria, Lisbon, Portugal; Science Institute of the Gulbenkian Foundation, Portugal. PI: Prof. Joaquim Ferreira and Prof. Sofia Oliveira.

“International LRRK2 Clinical Collaborative Project”. Co-investigator. Centro de Estudos Egas Moniz, Faculty of Medicine, University of Lisbon; Neurology Department, Hospital de Santa Maria, Lisbon, Portugal; Department of Clinical Neurosciences, Institute of Neurology, University College London, United Kingdom; Erasmus Medical Centre, Rotterdam, Netherlands. PI: Prof. Joaquim Ferreira; Prof. Van Healy; Prof. Vincenzo Bonifati.

“Caffeine for the treatment of daily somnolence in Parkinson’s disease patients”: Co-investigator. Neurology Department, Hospital de Santa Maria, Lisbon, Portugal. PI: Prof. Joaquim Ferreira.

“Amantadine for the treatment of levodopa induced dyskinesias”: Co-investigator. Neurology Department, Hospital de Santa Maria, Lisbon, Portugal. PI: Prof. Joaquim Ferreira.

“Association between Parkinson’s disease and skin tumours: transversal comparative study between Parkinson’s disease patients and controls”: Co-investigator. Neurology Department, Hospital de Santa Maria, Lisbon, Portugal. PI: Prof. Joaquim Ferreira.

“Olfaction in Parkinson’s disease patients carrying a mutation in the LRRK2 gene”. Centro de Estudos Egas Moniz, Faculty of Medicine, University of Lisbon; Neurology Department, Hospital de Santa Maria, Lisbon, Portugal; Reta Lila Weston Institute of Neurological Studies, UCL Institute of Neurology, London, United Kingdom. PI Prof Joaquim Ferreira; Prof Andrew Lees.

“Environmental Factors Influencing Penetrance and Expressivity of LRRK2-Associated Parkinson’s Disease”. Co-investigator. Centro de Estudos Egas Moniz, Faculty of Medicine, University of Lisbon, Portugal; Toronto Western Hospital, Canada. PI: Prof Joaquim Ferreira; International PI: Prof Connie Marras.

“Determinants of risk and progression in genetic vs. non-genetic Parkinson’s Disease”. Co-investigator. Centro de Estudos Egas Moniz, Faculty of Medicine, University of Lisbon, Portugal; Toronto Western Hospital, Canada. PI: Prof Joaquim Ferreira; International PI: Prof Connie Marras.

“Comparative study between UPSIT and the "Sniffin' Sticks" (SS-16) test in Portuguese subjects”. Co-investigator. Centro de Estudos Egas Moniz, Faculty of Medicine, University of Lisbon, Portugal. PI: Prof Joaquim Ferreira.

“Movement Disorders Biobanc of the Instituto de Medicina Molecular”. Co-investigator and coordinator. Joaquim Ferreira Lab - Clinical Pharmacology, Instituto de Medicina Molecular, Lisbon, Portugal; Neurology Department, Hospital de Santa Maria, Lisbon, Portugal. PI: Prof Joaquim Ferreira.

“COURAGE-PD: COmprehensive Unbiased Risk factor Assessment for Genetics and Environment in Parkinson‘s Disease”. JPND-RF/0001/2012. Co-investigator and local coordinator. Joaquim Ferreira Lab - Clinical Pharmacology, Instituto de Medicina Molecular, Lisbon, Portugal; Neurology Department, Hospital de Santa Maria, Lisbon, Portugal. PI: Prof Joaquim Ferreira. International coordinator: Prof Thomas Gasser, University of Tuebingen, Germany.

“MEFOPA – European Project on Mendelian Forms of Parkinson's Disease”- Co-investigator and local coordinator. Joaquim Ferreira Lab - Clinical Pharmacology, Instituto de Medicina Molecular, Lisbon,

Portugal; Neurology Department, Hospital de Santa Maria, Lisbon, Portugal. PI: Prof Joaquim Ferreira. International coordinator: Prof Thomas Gasser, University of Tuebingen, Germany.

"REGISTRY study" of the European Huntington's disease Network. Co-investigator. Joaquim Ferreira Lab - Clinical Pharmacology, Instituto de Medicina Molecular, Lisbon; Neurology Department, Hospital de Santa Maria, Lisbon, Portugal. PI Prof Joaquim Ferreira. International PI: Prof G Bernhard Landwehrmeyer, University of Ulm, Germany.

"Safety of Riluzol in Cerebellar ataxia". Neurology Department, Hospital de Santa Maria, Lisbon, Portugal. PI: Leonor Correia Guedes.

"Alliance to Identify LRRK2 Modifiers of Age of Onset with Family-based Whole Genome Analysis (WGA) and Validate them with Induced Pluripotent Stem Cell (iPSC) Models of LRRK2 PD". Co-investigator and local coordinator. Joaquim Ferreira Lab - Clinical Pharmacology, Instituto de Medicina Molecular, Lisbon, Portugal; Gladstone Institute of Neurological Disease, San Francisco, EUA; PI: Prof Joaquim Ferreira; Internacional PI: Professor Steven Finkbeiner.

"Genetic modifiers of age of onset of PD and penetrance among LRRK2 mutation carriers". Co-investigator and local coordinator. Joaquim Ferreira Lab - Clinical Pharmacology, Instituto de Medicina Molecular, Lisbon, Portugal; Department of Medical and Molecular Genetics, Indiana University, EUA. PI Prof Joaquim Ferreira. International PI: Professor Tatiana Foroud.

"Alfa-synuclein as biomarker for Parkinson's disease". Co-investigator. Joaquim Ferreira Lab - Clinical Pharmacology, Instituto de Medicina Molecular, Lisbon; Neurology Department, Hospital de Santa Maria, Lisbon, Portugal; Cell and Molecular Neuroscience Unit, Instituto de Medicina Molecular, Lisbon, Portugal. PI: Prof. Joaquim Ferreira, Prof. Tiago Outeiro, Prof. Bruno Miranda.

"Glucocerebrosidase in Parkinson's disease". Co-investigator. Joaquim Ferreira Lab - Clinical Pharmacology, Instituto de Medicina Molecular, Lisbon; Instituto de Medicina Molecular, Lisbon, Portugal. PI: Prof Joaquim Ferreira, Prof Gabriel Miltenberger-Miltenyi.

"Exploring the Role of Mitochondrial DNA in Parkinson's Disease". Co-investigator. Joaquim Ferreira Lab - Clinical Pharmacology, Instituto de Medicina Molecular, Lisbon; Neurology Department, Hospital de Santa Maria, Lisbon, Portugal; Cell Biology and Neuroscience Centre, University of Coimbra, Portugal; Center for the Study of Biological Complexity, Virginia Commonwealth University, USA. PI: Prof Joaquim Ferreira, Dr André Valente.

Clinical Trials: Co-investigator in 21 clinical trials. PI in one clinical trial (MOVES-PD; n: ACT14820, Sanofi). Good Clinical Practice Certificate.

5. Scientific Communications

Submitted to meetings- first author

Correia Guedes L, Rosa MM. "Coreic movements as first manifestation of Wilson's Disease". Oral communication, Forum of the Portuguese Neurological Society, May 2003, Luso, Portugal.

Correia Guedes L, Ferreira JJ, Coelho M, Rainha Campos A, Almeida A, Biscoito L, Mendes de Almeida M, Pimentel J. "Brachial Plexus Lymphoma". Oral Comunication, Forum of the Portuguese Neurological Society, May 2004, Luso, Portugal.

Leonor Correia Guedes, Joaquim J Ferreira, Miguel Coelho, José Pimentel. "Brachial Plexus Lymphoma". Poster, 14th Meeting of the European Neurological Society, June 2004, Barcelona, Spain.

Leonor Correia Guedes, Cândida Barroso, Nuno Ruivo, José G. Pimentel. "Intraventricular primary nervous system lymphoma". Poster, 15th Meeting of the European Neurological Society, June 2005, Vienna, Austria.

Leonor Correia Guedes, Joaquim Ferreira, Sara Freitas, Ana Noronha, Miguel Coelho, Mário Miguel Rosa, Vincenzo Bonifati, Cristina Sampaio. "Portuguese Parkinson's disease patients with LRRK2 G2019S mutations". Oral Communication, Annual Meeting of the Portuguese Neurological Society, November 2005, Lisbon, Portugal.

Leonor Correia Guedes, José M. Ferro. "Immediate anticoagulation of ischemic stroke of presumed cardioembolic origin". Poster, 16th Meeting of the European Neurological Society, May 2006, Lausanne, Switzerland.

Leonor Correia Guedes, Joaquim Ferreira, Mário Miguel Rosa, Ana Noronha, Bárbara Marino, Cristina Sampaio. "Electronic diaries to assess motor fluctuations and dyskinesias in Parkinson's disease patients", Poster, 10th International Congress of Parkinson's Disease and Movement Disorders, October 2006, Tokyo, Japan.

Leonor Correia Guedes, Joaquim J Ferreira, Mário M Rosa, Miguel Coelho, Vincenzo Bonifati, Cristina Sampaio. "Worldwide frequency of Leucine-Rich Repeat Kinase 2 gene mutations in Parkinson's disease: a systematic review". Poster, 11st International Congress of Parkinson's Disease and Movement Disorders, June 2007, Istanbul, Turkey.

Leonor Correia Guedes, Miguel Coelho, Sofia Madureira, Manuela Guerreiro, Joaquim Ferreira, Mário Miguel Rosa. "Oculomotor apraxia and corticobasal degeneration". Poster, 17th Meeting of the European Neurological Society, June 2007, Rhodes, Greece.

Correia Guedes L, Ferreira JJ, Berta A, Coelho M, Medeira A, Cortez Pinto H, Ramalho F, Cordeiro I, Rosa MM. "Phenotypic intra-familial heterogeneity in Portuguese Wilson´s disease patients". Poster, 12th International Congress of Parkinson's disease and Movement Disorders, June 2008, Chicago, USA.

Correia Guedes L, Zhang L, Quadri M, Coelho M, Valadas A, Mestre T, Lobo PP, Rosa MM, Simons E, Oostra BA, Ferreira JJ, Bonifati V. "Comprehensive LRRK2 and GBA screening in Portuguese patients with Parkinson's disease: identification of a new family with the LRRK2 p.Arg1441His mutation and novel missense variants". Oral communication, Portuguese Movement Disorders Society Annual Meeting, March 2013, Vimeiro, Portugal.

Correia Guedes L, Coelho M, Valadas A, Rosa MM, Bonifati V, Ferreira JJ. "The R1441H *LRRK2* mutation and Parkinson's disease". Poster, 17th International Congress of Parkinson's disease and Movement Disorders, June 2013, Sydney, Australia.

Leonor Correia Guedes, Jorge Pinto Basto, Joaquim Ferreira. "Ataxia telangiectásica with no telangiectasia". Oral communication, Annual Congress of the Portuguese Neurological Society, November 2013, Lisbon, Portugal.

Leonor Correia Guedes, Anabela Valadas, Raquel Bouça, Miguel Coelho, Mário Miguel Rosa, Joaquim J Ferreira, José Ferro. "Cerebellar ataxia and Riluzol: safety and clinical experience". Oral communication, Annual Meeting of the Portuguese Movement Disorders Society, March 2015, Vimeiro, Portugal.

Leonor Correia Guedes, Raquel Bouça, Tiago Soares, Miguel Coelho, Mário Miguel Rosa, Isabel Alonso, Vincenzo Bonifati, Gabriel Miltenberger-Miltenyi, Joaquim J Ferreira. "Frequency of mutations in the GBA gene and associated phenotype in a cohort of Portuguese Parkinson's disease patients". Oral communication, Annual Congress of the Portuguese Neurological Society, November 2015, Lisbon, Portugal

Leonor Correia Guedes, Raquel Bouça, Mário Miguel Rosa, Patrícia Pita Lobo, Margherita Fabbri, Begoña Cattoni, Herculano Carvalho, António Gonçalves Ferreira, Gabriel Miltenberger-Miltenyi, Joaquim J Ferreira, Miguel Coelho. "Deep brain stimulation in Parkinson's disease patients carrying a mutation in the GBA gene". Oral communication, Annual Congress of the Portuguese Neurological Society, November 2015, Lisbon, Portugal.

Correia Guedes L, Reimão S, Paulino P, Nunes RG, Bouça-Machado R, Abreu D, Gonçalves N, Soares T, Fabbri M, Godinho C, Pita Lobo P, Neutel D, Quadri ML, Coelho M, Rosa MM, Campos J, Outeiro TF, Sampaio C, Bonifati V, Ferreira JJ. "Neuromelanin Magnetic Resonance Imaging of the Substantia Nigra in *LRRK2* -related Parkinson's disease". Poster, Meeting: James Parkinson – An Essay on the Shaking Palsy 1817: A Celebration of 200 Years of Progress March 10-11, 2017 – London, United Kingdom

Correia Guedes L, Reimão S, Paulino P, Nunes RG, Bouça-Machado R, Abreu D, Gonçalves N, Soares T, Fabbri M, Godinho C, Pita Lobo P, Neutel D, Quadri ML, Coelho M, Rosa MM, Campos J, Outeiro TF, Sampaio C, Bonifati V, Ferreira JJ. "Neuromelanin Magnetic Resonance Imaging of the Substantia Nigra in *LRRK2* -related Parkinson's disease". Poster, International Congress of Parkinson's disease and Movement Disorders, 4-8 June 2017, Vancouver, Canada

Correia Guedes L, Bouça-Machado R, Gonçalves N, Soares T, Abreu D, Fabbri M, Coelho M, Rosa MM, Quadri M, Outeiro T, Sampaio C, Bonifati V, Ferreira JJ. "Motor and nonmotor clinical phenotype in LRRK2-Parkinson's disease patients: a case-control study". Poster, International Congress of Parkinson's disease and Movement Disorders, 4-8 June 2017, Vancouver, Canada

Invited speaker

"Non-motor symptoms of Parkinson's disease". Teaching Course for Parkinson's disease patients and caregivers of the Portuguese Association of Parkinson's disease patients. May 2009, Lisbon, Portugal.

"Genetics of Parkinson's disease". Lundbeck Forum of the Central Nervous System, June 2009, Troia, Portugal.

"What causes Parkinson's disease". Teaching Course for Parkinson's disease patients and caregivers of the Instituto de Medicina Molecular. April 2010, Lisbon, Portugal.

"Genetic studies- when to order". 2nd Teaching course in Movement Disorders of the Instituto de Medicina Molecular, May 2010, Lisbon, Portugal.

"Parkinson's disease" Circle of lectures of the Portuguese Association of Parkinson's disease patients, 2011, Portugal.

"Genetic movement disorders". 3rd Teaching course in Movement Disorders of the Instituto de Medicina Molecular, May 2011, Lisbon, Portugal.

"Genetics of Parkinson's disease". Annual Meeting of the Portuguese Movement Disorders Society, February 2012, Lisbon, Portugal.

"Huntington's disease and other Choreas-Update". Annual Meeting of the Portuguese Movement Disorders Society, March 2013, Vimeiro Portugal.

"Is Parkinson's disease hereditary?". Teaching Course for Parkinson's disease patients and caregivers of the Campos Neurológico-CNS, April 2015, Torres Vedras, Portugal

"Deep brain stimulation in monogenic Parkinson's disease". 1st Teaching Course in deep brain stimulation of the Instituto de Medicina Molecular, November 2014, Lisbon, Portugal.

"Management of a patient with tremor". Campus Neurológico-CNS Teaching Course, March 2016, Torres Vedras, Portugal.

"Biobank in Movement disorders of the Instituto de Medicina Molecular". Meeting of the Lisbon Academic Medical Centre (CAML), September 2016, Hospital de Santa Maria, Lisbon.

"Clinical approach to tremor in primary care". II Medical Resident Day of the Primary Care Centers of Lisbon North (ACES Lisboa Norte). October 2016, Faculty of Medicine, University of Lisbon, Portugal.

"Juvenile Parkinson's disease". IV Meeting in neurogenetics: "Neurogenetics in Movement" of the Hospital de D. Estefania, Lisbon and The Centre for Preventive and Predictive Genetics (CGTP), Institute for Molecular and Cell Biology (IBMC). November 2016, Lisbon, Portugal.

Chair:

Poster section "Ataxias/Neuro-oncology". Annual Congress of the Portuguese Neurological Society, November 2015, Lisbon, Portugal.

6. Publications

Peer review Journals

1. Di Fonzo A, Rohé CF, Ferreira J, Chien HF, Vacca L, Stocchi F, Guedes L, Fabrizio E, Manfredi M, Vanacore N, Goldwurm S, Breedveld G, Sampaio C, Meco G, Barbosa E, Oostra BA, Bonifati V; Italian Parkinson Genetics Network. A frequent LRRK2 gene mutation associated with autosomal dominant Parkinson's disease. Lancet. 2005 Jan 29-Feb 4;365(9457):412-5.

2. Ferreira JJ, Guedes LC, Rosa MM, Coelho M, van Doeselaar M, Schweiger D, Di Fonzo A, Oostra BA, Sampaio C, Bonifati V. High prevalence of LRRK2 mutations in familial and sporadic Parkinson's disease in Portugal. Mov Disord. 2007 Jun 15;22(8):1194-201.

3. Ferreira J, Silva JM, Freire R, Pignatelli J, Guedes LC, Feijó A, Rosa MM, Coelho M, Costa J, Noronha A, Hewett R, Gomes AM, de Castro JL, Rascol O, Sampaio C. Skin cancers and precancerous lesions in Parkinson's disease patients. Mov Disord. 2007 Jul 30;22(10):1471-5.

4. Ferreira JJ, Almeida L, Cunha L, Ticmeanu M, Rosa MM, Januário C, Mitu CE, Coelho M, Correia-Guedes L, Morgadinho A, Nunes T, Wright LC, Falcão A, Sampaio C, Soares-da-Silva P. Effects of nebicapone on levodopa pharmacokinetics, catechol-O-methyltransferase activity, and motor fluctuations in patients with Parkinson disease. Clin Neuropharmacol. 2008 Jan-Feb;31(1):2-18.

5. Guedes LC, Ferro JM. A systematic review of immediate anticoagulation for ischemic stroke of presumed cardioembolic origin. Stroke. 2008 May;39(5):e81-2.

6. Silveira-Moriyama L, Guedes LC, Kingsbury A, Ayling H, Shaw K, Barbosa ER, Bonifati V, Quinn NP, Abou-Sleiman P, Wood NW, Petrie A, Sampaio C, Ferreira JJ, Holton J, Revesz T, Lees AJ. Hyposmia in G2019S LRRK2-related parkinsonism: clinical and pathologic data. Neurology. 2008 Sep 23;71(13):1021-6.

7. Di Fonzo A, Dekker MC, Montagna P, Baruzzi A, Yonova EH, Correia Guedes L, Szczerbinska A, Zhao T, Dubbel-Hulsman LO, Wouters CH, de Graaff E, Oyen WJ, Simons EJ, Breedveld GJ, Oostra BA, Horstink MW, Bonifati V. FBXO7 mutations cause autosomal recessive, early-onset parkinsonian-pyramidal syndrome. Neurology. 2009 Jan 20;72(3):240-5.

8. Correia Guedes L, Ferreira JJ, Rosa MM, Coelho M, Bonifati V, Sampaio C. Worldwide frequency of G2019S LRRK2 mutation in Parkinson's disease: a systematic review. Parkinsonism Relat Disord. 2010 May;16(4):237-42.

9. Martins M, Rosa A, Guedes LC, Fonseca BV, Gotovac K, Violante S, Mestre T, Coelho M, Rosa MM, Martin ER, Vance JM, Outeiro TF, Wang L, Borovecki F, Ferreira JJ, Oliveira SA. Convergence of miRNA expression profiling, α-synuclein interaction and GWAS in Parkinson's disease. PLoS One. 2011;6(10): e25443.

10. Valadas A, Coelho M, Mestre T, Guedes LC, Finisterra M, Noronha A, Rosa MM, Sampaio C, Ferreira JJ. What motivates Parkinson's disease patients to enter clinical trials? Parkinsonism Relat Disord. 2011 Nov;17(9):667-71.

11. Zhang L, Quadri M, Guedes LC*, Coelho M, Valadas A, Mestre T, Lobo PP, Rosa MM, Simons E, Oostra BA, Ferreira JJ, Bonifati V. Comprehensive LRRK2 and GBA screening in Portuguese patients with Parkinson's disease: identification of a new family with the LRRK2 p.Arg1441His mutation and novel missense variants. Parkinsonism Relat Disord. 2013 Oct;19(10):897-900.

12. Albuquerque L, Coelho M, Martins M, Guedes LC, Rosa MM, Ferreira JJ, Cattoni MB, Carvalho H, Ferreira AG, Martins IP. STN-DBS does not change emotion recognition in advanced Parkinson's disease. Parkinsonism Relat Disord. 2014 Feb;20(2):166-9.

13. Joana Morgado, Sofia Reimão, Miguel Coelho, Mário M. Rosa, Joaquim J. Ferreira, Leonor Correia Guedes. Eye of the Tiger Sign and Very Late Onset in Dentatorubral-Pallidoluysian Atrophy. Mov Disord. Clinical Practice. 2015; volume 2; issue 3: 313–315.

14. Reimão S, Pita Lobo P, Neutel D, Correia Guedes L, Coelho M, Rosa MM, Ferreira J, Abreu D, Gonçalves N, Morgado C, Nunes RG, Campos J, Ferreira JJ. Substantia nigra neuromelanin magnetic resonance imaging in de novo Parkinson's disease patients. Eur J Neurol. 2015 Mar;22(3):540-6.

15. Reimão S, Pita Lobo P, Neutel D, Guedes LC, Coelho M, Rosa MM, Ferreira J, Abreu D, Gonçalves N, Morgado C, Nunes RG, Campos J, Ferreira JJ. Quantitative Analysis Versus Visual Assessment of Neuromelanin MR Imaging for the Diagnosis of Parkinson's disease. J Parkinsons Dis. 2015;5(3):561-7.

16. Fabbri M, Guedes LC, Coelho M, Simão D, Abreu D, Rosa MM, Silveira-Moriyama L, Ferreira JJ. Subthalamic deep brain stimulation effects on odor identification in Parkinson's disease. Eur J Neurol. 2015 Jan;22(1):207-10.

17. Quadri M, Yang X, Cossu G, Olgiati S, Saddi VM, Breedveld GJ, Ouyang L, Hu J, Xu N, Graafland J, Ricchi V, Murgia D, Guedes LC, Mariani C, Marti MJ, Tarantino P, Asselta R, Valldeoriola F, Gagliardi M, Pezzoli G, Ezquerra M, Quattrone A, Ferreira J, Annesi G, Goldwurm S, Tolosa E, Oostra BA, Melis M, Wang J, Bonifati V. An exome study of Parkinson's disease in Sardinia, a Mediterranean genetic isolate. Neurogenetics. 2015 Jan;16(1):55-64.

18. Teodoro T, Nzwalo H, Correia Guedes L, Coelho M, Rosa MM, Ferreira JJ. Suicidal behaviors are very rare in antiparkinsonian drug trials. Parkinsonism Relat Disord. 2015 Aug;21(8):1008-9.

19. Reimão S, Pita Lobo P, Neutel D, Guedes LC, Coelho M, Rosa MM, Azevedo P, Ferreira J, Abreu D, Gonçalves N, Nunes RG, Campos J, Ferreira JJ. Substantia nigra neuromelanin-MR imaging differentiates essential tremor from Parkinson's disease. Mov Disord. 2015 Jun;30(7):953-9.

20. Albuquerque L, Martins M, Coelho M, Guedes L, Ferreira JJ, Rosa M, Martins IP. Advanced Parkinson disease patients have impairment in prosody processing. J Clin Exp Neuropsychol. 2016;38(2):208-16.

21. Ferreira JJ, Mestre T, Guedes LC, Coelho M, Rosa MM, Santos AT, Barra M, Sampaio C, Rascol O. Espresso Coffee for the Treatment of Somnolence in, Parkinson's Disease: Results of n-of-1 Trials. Front Neurol. 2016 Mar 8; 7:27.

22. Fabbri M, Coelho M, Abreu D, Guedes LC, Rosa MM, Costa N, Antonini A, Ferreira JJ. Do patients with late-stage Parkinson's disease still respond to levodopa? Parkinsonism Relat Disord. 2016 May; 26:10-6.

23. Pinho R, Guedes LC*, Soreq L, Lobo PP, Mestre T, Coelho M, Rosa MM, Gonçalves N, Wales P, Mendes T, Gerhardt E, Fahlbusch C, Bonifati V, Bonin M, Miltenberger-Miltényi G, Borovecki F, Soreq H, Ferreira JJ, F Outeiro T. Gene Expression Differences in Peripheral Blood of Parkinson's Disease Patients with Distinct Progression Profiles. PLoS One. 2016 Jun 20;11(6): e 0157852.

24. Ana Castro Caldas, Leonor Correia Guedes, Joaquim J Ferreira, Miguel Coelho. Musician's Dystonia as the Initial Presentation of Parkinson's Disease. Mov Disord Clinical Practice. 2016; volume 3; issue 6: 624-625.

25. Quadri M, Breedveld GJ, Chang HC, Yeh TH, Guedes LC, Toni V, Fabrizio E, De Mari M, Thomas A, Tassorelli C, Rood JP, Saddi V, Chien HF, Kievit AJ, Boon AJ, Stocchi F, Lopiano L, Abbruzzese G, Cortelli P, Meco G, Cossu G, Barbosa ER, Ferreira JJ; International Parkinsonism Genetics Network., Lu CS, Bonifati V. Mutations in TMEM230 are not a common cause of Parkinson's disease. Mov Disord. 2017 Jan 16. [Epub ahead of print]

26. Giri A, Mok KY, Jansen I, Sharma M, Tesson C, Mangone G, Lesage S, Bras JM, Shulman JM, Sheerin UM; International Parkinson's Disease Consortium (IPDGC), Díez-Fairen M, Pastor P, Martí MJ, Ezquerra M, Tolosa E, Correia-Guedes L, Ferreira J, Amin N, van Duijn CM, van Rooij J, Uitterlinden AG, Kraaij R, Nalls M, Simón-Sánchez J. Lack of evidence for a role of genetic variation in TMEM230 in the risk for Parkinson's disease in the Caucasian population. Neurobiol Aging. 2017 Feb; 50: 167.e11-167.e13.

27. Bouça-Machado R, Rosário M, Alarcão J, Correia-Guedes L, Abreu D, Ferreira JJ. Clinical trials in palliative care: a systematic review of their methodological characteristics and of the quality of their reporting. BMC Palliat Care. 2017 Jan 25;16(1):10.

28. Fabbri M, Coelho M, Guedes LC, Rosa MM, Abreu D, Gonçalves N, Antonini A, Ferreira JJ. Acute response of non-motor symptoms to subthalamic deep brain stimulation in Parkinson's disease. Parkinsonism Relat Disord. 2017 May 8. pii: S1353-8020(17)30165-7. doi: 10.1016/j.parkreldis.2017.05.003. [Epub ahead of print] PubMed PMID: 28528805.

29. Coelho M, Abreu D, Correia-Guedes L, Lobo PP, Fabbri M, Godinho C, Domingos J, Albuquerque L, Freitas V, Pereira JM, Cattoni B, Carvalho H, Reimão S, Rosa MM, Ferreira AG, Ferreira JJ. Disability in Activities of Daily Living and Severity of Dyskinesias Determine the Handicap of Parkinson's Disease Patients in Advanced Stage Selected to DBS. J Parkinsons Dis. 2017;7(2):255-261.

30. Fabbri M, Reimão S, Carvalho M, Nunes RG, Abreu D, Guedes LC, Bouça R, Lobo PP, Godinho C, Coelho M, Gonçalves NC, Rosa MM, Antonini A, Ferreira JJ. Substantia Nigra Neuromelanin as an Imaging Biomarker of Disease Progression in Parkinson's Disease. J Parkinsons Dis. 2017 Jun 30. doi: 10.3233/JPD-171135. [Epub ahead of print] PubMed PMID: 28671143.

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Book Chapters:

Correia Guedes L, Rosa MM. Motor fluctuations and dyskinesias. In Levy A e Ferreira JJ, Parkinson's disease: practical manual. Lisboa: Lidel, 2003: 211-223.

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7. Externally funded research projects

Scientific research Grant of the Portuguese Neurological Society for the project "Clinical and genetic characterization of Portuguese Parkinson's disease patients and their families", 2008. (6000 euros) to Leonor Correia Guedes.

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"MicroRNA and proteomics of Parkinson's disease" funded by the Foundation for Science and Technology. (PTDC/SAU-GMG/64428/2006) and Human Genetics research grant of the Medical Center of the University of Duke, USA. Co-investigator.

"Slow and Rapid Progression Parkinson´s Disease: Molecular Determinants and Biomarkers" funded by the Foundation for Science and Technology. (PIC/IC/82760/2007). Co-investigator.

"Glucocerebrosidase in Parkinson's disease: from risk factor to biomarker" funded by the Foundation for Science and Technology (PTDC/DTP-PIC/0904/2012). Co-investigator.

"COURAGE-PD: COmprehensive Unbiased Risk factor Assessment for Genetics and Environment in Parkinson's Disease" funded by the European Union Joint Program-Neurodegenerative disease Research (JPND-RF/0001/2012). Co-investigator.

"Genetic modifiers of age of onset of PD and penetrance among LRRK2 mutation carriers"- Consortium to Identify LRRK2 Modifiers of Age of Onset, funded by the Michael J Fox Research (Grant 2012). Co-investigator.

"MEFOPA – European Project on Mendelian Forms of Parkinson's Disease", supported by the European Community under the 7th Framework Programme for Research and Technological Development (Grant Agreement HEALTH-2009-241791). Co-investigator.

8. Awards

Basic research prize awarded by the Portuguese Society of Human Genetics "Convergence of miRNA Expression Profiling, a-synuclein Interaction and GWAS in Parkinson's Disease". 2011. Co-investigator.

Young Investigator Poster Award by the Movement Disroders Society for the poster: "Neuromelanin Magnetic Resonance Imaging of the Substantia Nigra in *LRRK2* -related Parkinson's disease". Poster, Meeting: James Parkinson – An Essay on the Shaking Palsy 1817: A Celebration of 200 Years of Progress March 10-11, 2017 – London, United Kingdom. First Author

9. Memberships

Member of the Portuguese Neurological Society

Member of the Portuguese Movement Disorders Society

Member of the Movement Disorders Society

Member of the European Huntington's disease Network

Portuguese College of Physicians

10. Languages

English fluent

French fluent

Lisbon, September 2017

Leonor Correia Guedes