Curriculum Vitae

NAME: Leonor Correia Guedes

POSITION TITLE: Neurologyst, Clinical Researcher at Instituto de Medicina Molecular, Auxiliary professor of Neurology at University of Lisbon

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	Completion Date MM/YYYY	FIELD OF STUDY
Faculty of Medicine, University of Lisbon, Portugal	Medical Degree	1998	Medicine
Neurology Department, Department of Neurosciences and Mental Health, Hospital Santa Maria, Lisbon, Portugal	Residency in Neurology	2009	Neurology
Faculty of Medicine, University of Lisbon, Portugal	MSc	2010	Neuroscience
Faculty of Medicine, University of Lisbon, Portugal	PhD	2017	Neurology
Neurology Department, Department of Neurosciences and Mental Health, Hospital Santa Maria, Lisbon, Portugal	Consultant in Neurology	2018	Neurology

A. Positions and Honors

- Neurologist at the Department of Neurosciences and Mental Health, Neurology Department, Hospital de Santa Maria, Lisbon, Portugal (2010-)
- Founder and coordinator of the Neurogenetics 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 Instituto de Medicina Molecular, Lisbon, Portugal (2013-)
- Auxiliary Professor in Neurology, Faculty of Medicine, University of Lisbon (2017-)
- Neurology fellowship supervisor (2013-)
- 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-)
- Member of the Scientific Panel Neurogenetics- European Academy Neurology (2018-2019)
- Elected President of the Portuguese Movement disorders Society (2021-)

B. Publications

38 papers in peer-review journals

Selected publications

- 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.

- 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.

- 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.

- 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.

- 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.

- 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. (*Co-primary author)

- 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.

- 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.

- 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.

- 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.

- 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.

- 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 Feb; 32(2):302-304.

- 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;7(3):491-501.

- Blauwendraat C, Faghri F, Pihlstrom L, Geiger JT, Elbaz A, Lesage S, Corvol JC, May P, Nicolas A, Abramzon Y, Murphy NA, Gibbs JR, Ryten M, Ferrari R, Bras J, Guerreiro R, Williams J, Sims R, Lubbe S, Hernandez DG, Mok KY, Robak L, Campbell RH, Rogaeva E, Traynor BJ, Chia R, Chung SJ; International Parkinson's Disease Genomics Consortium (IPDGC), COURAGE-PD Consortium, Hardy JA, Brice A, Wood NW, Houlden H, Shulman JM, Morris HR, Gasser T, Krüger R, Heutink P, Sharma M, Simón-Sánchez J, Nalls MA, Singleton AB, Scholz SW. NeuroChip, an updated version of the NeuroX genotyping platform to rapidly screen for variants associated with neurological diseases. Neurobiol Aging. 2017 Sep;57:247.e9-247.e13.

- 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 M, 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. Mov Disord. 2017 Sep;32(9):1331-1333.

- Guedes LC, Chan RB, Gomes MA, Conceição VA, Machado RB, Soares T, Xu Y, Gaspar P, Carriço JA, Alcalay RN, Ferreira JJ, Outeiro TF, Miltenberger-Miltenyi G. Serum lipid alterations in GBA-associated Parkinson's disease. Parkinsonism Relat Disord. 2017 Nov;44:58-65.

- Vicente Miranda H, Cássio R, Correia-Guedes L, Gomes MA, Chegão A, Miranda E, Soares T, Coelho M, Rosa MM, Ferreira JJ, Outeiro TF. Posttranslational modifications of blood-derived alpha-synuclein as biochemical markers for Parkinson's disease. Sci Rep. 2017 Oct 20;7(1):13713.

- Blauwendraat C, Kia DA, Pihlstrøm L, Gan-Or Z, Lesage S, Gibbs JR, Ding J, Alcalay RN, Hassin-Baer S, Pittman AM, Brooks J, Edsall C, Chung SJ, Goldwurm S, Toft M, Schulte C; International Parkinson's Disease Genomics Consortium (IPDGC), COURAGE-PD Consortium, Hernandez D, Singleton AB, Nalls MA, Brice A, Scholz SW,Wood NW. Insufficient evidence for pathogenicity of SNCA His50Gln (H50Q) in Parkinson's disease. Neurobiol Aging. 2018 Apr;64:159.e5-159.e8.

- Quadri M, Mandemakers W, Grochowska MM, Masius R, Geut H, Fabrizio E,Breedveld GJ, Kuipers D, Minneboo M, Vergouw LJM, Carreras Mascaro A,Yonova-Doing E, Simons E, Zhao T, Di Fonzo AB, Chang HC, Parchi P, Melis M, Correia Guedes L, Criscuolo C, Thomas A, Brouwer RWW, Heijsman D, Ingrassia AMT,

Calandra Buonaura G, Rood JP, Capellari S, Rozemuller AJ, Sarchioto M, Fen Chien H, Vanacore N, Olgiati S, Wu-Chou YH, Yeh TH, Boon AJW, Hoogers SE, Ghazvini M, IJpma AS, van IJcken WFJ, Onofrj M, Barone P, Nicholl DJ, Puschmann A, De Mari M, Kievit AJ, Barbosa E, De Michele G, Majoor-Krakauer D, van Swieten JC, de Jong FJ, Ferreira JJ, Cossu G, Lu CS, Meco G, Cortelli P, van de Berg WDJ, Bonifati V; International Parkinsonism Genetics Network. LRP10 genetic variants in familial Parkinson's disease and dementia with Lewy bodies: a genome-wide linkage and sequencing study. Lancet Neurol. 2018 Jul;17(7):597-608.

C. **Grants and Awards**

Grants

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. Personal grant to Leonor Correia Guedes

Gulbenkian Foundation Grant for short international fellowship programs 2008. Personal grant to Leonor Correia Guedes

“Genetic susceptibility factors in Parkinson’s disease” funded by the International Parkinson’s Funds, Netherlands. Co-investigator.

“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 Program for Research and Technological Development (Grant Agreement HEALTH-2009-241791). Co-investigator.

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 Disorders 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