

2015 Curriculum Vitæ (Short)

Maria Emília Carreira Saraiva Monteiro

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Academic degrees

- 2008 "Agregação" (national public examination required to further apply for a position of full professor). Universidade Nova de Lisboa. Approved by unanimity
- 1994 PhD in Pharmacology. University of Porto. Instituto de Ciências Biomédicas Abel Salazar (Portugal). Approved cum laude
- 1984 PhD in Physiology. University of Navarra. School of Medicine (SPAIN). Approved cum laude
- 1982 Graduation in Medicine. University of Navarra. School of Medicine (SPAIN). "Sobresaliente" (A)

Previous and current scientific and/or professional activities

- From 2014: Vice-chair of the ECRIN-ERIC steering committee (European Clinical Research Infrastructure Network/ European Research Infrastructures Consortium)
- 2013- July 2014: Delegate of Portugal in the FP 7 and Horizon 2020- topic, SC1 "Health, demographic change and wellbeing"
- From 2013: Member of the scientific council of the ANSM "Agence Nationale de Sécurité du Medicament et des Produits de Santé" (France)
- From 2012 Full professor of Pharmacology. NOVA Medical School. Universidade NOVA de Lisboa
- From 2012: Co-director for education of the Harvard Medical School-Portugal Program in Translational Research and Information www.hmsportugal.pt
- From 2012: Coordinator of the PtCRIN – Portuguese Clinical Research Infrastructure network. The national network partner of the ECRIN/ERIC (European Clinical Research Infrastructure Network/ European Research Infrastructures Consortium)
- From 2010 Vice-Dean (Dean for Education), NOVA Medical School. Universidade NOVA de Lisboa
- From 2010 Foundation for Science and Technology. Portuguese Ministry of Education and Science (FCT/MEC): Evaluator of research grants and scientific projects
- From 2009 Member of the National Ethics Committee for Clinical Research (CEIC). Evaluator of Clinical trials

- 2010-2011 Collaborator in the preparation of Portuguese National Health Programme 2011-2016 in the area of drugs, technologies and medical devices
- 2009-2013 President of the Portuguese Society of Pharmacology and Clinical Pharmacology
- From 2009 Member of the direction of the "Sociedade de Ciências Médicas de Lisboa"
- From 2008 Principal Investigator at CEDOC Chronic Diseases Center an I&D research unit, supported by FCT/MEC, integrated in the associated laboratory IGC/ITQB/IBET. Group: Translational Pharmacology
- From 2003 Chair of the curricular units Pharmacology and/or General Pharmacology, Integrated Master in Medicine, NOVA Medical School. Universidade NOVA de Lisboa
- 2006-2010 Member of the Ethic Committee. NOVA Medical School. Universidade NOVA de Lisboa
- 2004-2012 Associated Professor. NOVA Medical School. Universidade NOVA de Lisboa
- 2007-2010 International Relations Coordinator, NOVA Medical School. Universidade NOVA de Lisboa
- 2002-2006 Socrates/Erasmus Coordinator. NOVA Medical School. Universidade NOVA de Lisboa
- 1997-2003 Auxiliar Professor of Pharmacology, NOVA Medical School. Universidade NOVA de Lisboa
- 1992-1996 Assistant of Pharmacology NOVA Medical School. Universidade NOVA de Lisboa
- 1991-2000 Auxiliar/Associated Professor of Pharmacology. School of Dentistry and Pharmacy. Instituto Superior de Ciências da Saúde-Sul . Monte da Caparica, Portugal
- 1988-1991 PhD student. Fellowship from INIC, Gulbenkian Institute of Science (IGC) Portugal
- 1985-1988 Research Assistant, Gulbenkian Institute of Science (IGC) Portugal

Other international activities in the last 5 years

Organization of relevant post-graduate activities and/or international meetings:

- 2012-2013 Coordinator of the curricular unit "Translational research" in the PhD programme of the Faculdade de Ciências Médicas
- 2012: 6th European Congress of Pharmacology (Granada/Spain) (www.ephar2012.com). Member of the scientific committee and organizer of the symposium: "The carotid body: target for new drugs and advanced therapies"
- 2010-2014: Coordinator of the Masters in Clinical Research. A partnership between Northeastern University in Boston and New University of Lisbon (dual degree).
- 2010: Pharmacological Basis of Innovative Therapies, Advanced course in the PhD Programme of the Universidade NOVA de Lisboa. Sponsored by FCT/MCTES and British Council -organiser
- 2009: Joint meeting of the Spanish Society of Clinical Pharmacology and Portuguese Society of Pharmacology. Badajoz, Universidade da Extremadura
- 2008- "Mestrado em saúde e aparelho respiratório"- Curricular unit coordinator
- 2006-2007 - "Curso Pós-Graduado de Monitorização de Ensaios Clínicos", Coordinator
- 2006- 7th International Workshop on Clinical Pharmacology of HIV Therapy

Other participation in international activities:

From 2011 National academic contact point for EMTRAIN (European Medicines Training Network, www.emtrain.eu) European project supported by IMI (Innovative Medicines Initiative, www.imi.europa.eu)

2011 FP7-HEALTH-2012-INNOVATION-1: Evaluator of research grants

2011 Portuguese representative in the "Working group to facilitate international cooperation in non-commercial clinical trials". OECD Global Science Forum.

Recent scientific activity

Funded grants evaluated by international panels

2013-2014 Title "Teaching an old drug new tricks: re-profiling an anti-HIV drug as an HDL modulator" Project reference: Portuguese Science Foundation- EXPL/DTP-FTO/0204/2012. Member of the research team

2013-2016 Title "Zebrafish as a tool in biomedical research". Gulbenkian Professorship/ P^o121986. Principal investigator

2012-2015 Title "European Clinical Research Infrastructures Network - Integrating Activity". Project reference: European 7th FP, INFRA-2011-1.1.5. n^o 284395,. Member of the research team

2011-2014 Title "Is insullin a stimulus for carotid body activation? A new mechanism for insulin resistance and hypertension". Project reference: Portuguese Science Foundation PTDC/SAU-ORG/111417/2009. Member of the research team

2011-2014 Title. " Hepatic toxicity in HIV-infected individuals exposed to nevirapine". Project reference: Portuguese Science Foundation PTDC/SAU-TOX/111663/2009. Principal Investigator

2011-2014 Title: "Chronic Intermittent Eucapnic Hypoxia: systemic effects and evaluation of anti-hypertensive drugs efficacy" Project reference: Portuguese Science Foundation PTDC/SAU-TOX/112264/2009. Principal Investigator.

2011-2014 Title: "Bioactivation routes of the anti - HIV drug Nevirapine: identification of reactive metabolites and mutagenic potential." Project reference: Portuguese Science Foundation PTDC/QUI-QUI/113910/2009. Member of the research team

2010-2012 Integrated Action "Luso-Espanhola" Supported by CRUP. Title :Relative contribution of ATP and adenosine to carotid body chemotransduction in acute and chronic hypoxia. Principal Investigator

Supervising experience: finalized PhD thesis

2014 PhD thesis of Susana Vacas
Co-supervision with Prof. Mervyn Maze (University of California, San Francisco)
Title: "New insights for understanding postoperative cognitive dysfunction". Supported by "Programa Gulbenkian de formação médica avançada" Approved

2013 PhD thesis of Ana Rita Nunes
Co-supervision with Prof. Estelle Gauda (Johns Hopkins USA)
Title: "O₂/CO₂- sensitive cAMP-signaling pathway in peripheral chemoreceptors." Supported by FCT PhD grant. Approved

2011 PhD thesis of Teresa Maria Castro Cunha Alves Monteiro
Title: Functional evaluation of carotid body in ageing. Approved

- 2010 PhD thesis of Sofia de Azeredo Gaspar Pereira
Title: Therapeutic drug monitoring of efavirenz in clinical practice and long term effects of the drug. Approved
- 2007 PhD thesis of Sílvia Vilares Conde
Co-supervision with Prof. Constâncio González (Spain) Title: "Functional significance of adenosine receptors in carotid body chemosensory activity in control and chronic hypoxic animals". Approved

Papers in international scientific periodicals with referees (last 5 years):

- 2015 Diogo LN, Pinto P, Bárbara C, Papoila AL, Monteiro EC. The association between antihypertensive medication and blood pressure control in patients with obstructive sleep apnea (*Advances in Experimental Medicine and Biology*, in press).
- 2015 Lucília N Diogo, Inês V Faustino, Ricardo A Afonso, Sofia A Pereira, Emília C Monteiro, Ana I Santos. Losartan voluntary oral administration – a less stressful approach in rats (*Journal of the American Association for Laboratory Animal Science – JAALAS*, in press).
- 2015 Diogo LN, Pinto P, Bárbara C, Monteiro EC, Papoila AL. Neck circumference and body mass index as independent predictors of hypertension misclassification in patients suspected of obstructive sleep apnea. *Blood Press Monit.* 2015 Feb;20(1):8-15.
doi:10.1097/MBP.000000000000080.
- 2014 Conde SV, Sacramento JF, Guarino MP, Gonzalez C, Obeso A, Diogo LN, Monteiro EC, Ribeiro MJ Carotid body, insulin, and metabolic diseases: unraveling the links. *Front Physiol.* 2014 Oct 29;5:418. doi: 10.3389/fphys.2014.00418.
- 2014 Nunes, AR, Holmes AP, Conde SV, Gauda E and Monteiro EC. Revisiting cAMP signaling in the carotid body. *Front. Physiol.*, 28 October 2014 | doi: 10.3389/fphys.2014.00406
- 2014 Diogo LN, Monteiro EC. The efficacy of antihypertensive drugs in chronic intermittent hypoxia conditions. *Front Physiol.* 2014 Sep 22;5:361. doi: 10.3389/fphys.2014.00361
- 2014 Nunes, AR, Monteiro EC, Gauda E. Soluble adenylyl cyclase in the locus coeruleus.. *Resp. Physiol. Neurobiol.* 201; 34-37
- 2014 Dias CG, Batuca JR, Marinho AT, Caixas U, Monteiro EC, Antunes AMM, Pereira SA. Quantification of the arylesterase activity of paraoxonase-1 in human blood. *Anal Methods* 6, 289-294.
- 2014 Marinho AT, Godinho ALA, Novais DA, Antunes AMM, Marques MM, Ramos T, Dias CG, Monteiro EC, Pereira SA. Development and validation of an HPLC-UV method for quantifying nevirapina and its main phase I metabolites in human blood. *Anal Methods* 6, 1575-1580.
- 2014 Grilo NM, Charneira C, Pereira SA, Monteiro EC, Marques MM, Antunes AM. Bioactivation to na aldehyde metabolite-possible role in the onset of toxicity induced by the anti-HIVdrug abacavir.. *Toxicol Lett.* 30;224:416-23 (IF 3,557)
- 2014 Marinho A, Rodrigues P, Caixas U, Antunes A, Branco T, Harjivan S, Marques M, Monteiro EC, Pereira S. Differences in nevirapine biotransformation as a factor for its sex-dependent dimorphic profile of adverse drug reactions *J Antimicrob Chemother.* 69:476-82 (IF 5,068)
- 2013 Ribeiro, Maria; Sacramento, Joana; Gonzalez, Constancio; Guarino, Maria; Monteiro, Emilia; Conde, Silvia. Carotid body denervation prevents the development of insulin resistance and hypertension induced by hypercaloric diets. *Diabetes.* 2013 Aug;62(8):2905-16. (IF: 8,3)
- 2013 Nunes AR, Holmes AP, Sample V, Kumar P, Cann MJ, Monteiro EC, Zhang J, Gauda EB. Bicarbonate-sensitive soluble and transmembrane adenylyl cyclases in peripheral chemoreceptors. *Resp. Physiol. & Neurobiol.* In press (IF 2,231)
- 2013 Grilo NM, Antunes AM, Caixas U, Marinho AT, Charneira C, Oliveira MC, Monteiro EC, Marques MM, Pereira SA. Monitoring Abacavir bioactivation in humans: screening for an aldehyde metabolite. *Toxicol. Lett.* 219, 59-64 (IF 3,557)
- 2012 Conde SV, Obeso A, Monteiro EC, Gonzalez C. Effect of chronic caffeine intake on carotid body catecholamine dynamics in control and chronically hypoxic rats. *Adv Exp Med Biol.* 758:315-23.

- 2012 Nunes AR, Sample V, Xiang YK, Monteiro EC, Gauda E, Zhang J. Effect of Oxygen on Phosphodiesterases (PDE) 3 and 4 Isoforms and PKA Activity in the Superior Cervical Ganglia. *Adv Exp Med Biol.* 758:287-94.
- 2012 Conde SV, Ribeiro MJ, Obeso A, Rigual R, Monteiro EC, Gonzalez C. Chronic caffeine intake in adult rat inhibits carotid body sensitization produced by chronic sustained hypoxia but maintains intact chemoreflex output. *Mol Pharmacol.*82:1056-65 (IF 4,883)
- 2012 Caixas U, Antunes AM, Marinho AT, Godinho AL, Grilo NM, Marques MM, Oliveira MC, Branco T, Monteiro EC, Pereira SA. Evidence for nevirapine bioactivation in man: searching for the first step in the mechanism of nevirapine toxicity. *Toxicology.* 301:33-9 (IF 3,469).
- 2012 Caixas U, Ferreira J, Marinho AT, Faustino I, Grilo NM, Lampreia F, Germano I, Monteiro EC, Pereira SA. Long-term maraviroc use as salvage therapy in HIV-2 infection. *J Antimicrob Chemother.* 67:2538-9 (IF 5,068)
- 2012 Charneira C, Grilo NM, Pereira SA, Godinho AL, Monteiro EC, Marques MM, Antunes AM. N-terminal valine adduct from the anti-HIV drug abacavir in rat haemoglobin as evidence for abacavir metabolism to a reactive aldehyde in vivo. *Br J Pharmacol.* 167:1353-61.
- 2012 Conde SV, Monteiro EC, Rigual R, Obeso A, Gonzalez C.. Hypoxic intensity: a determinant for the contribution of ATP and adenosine to the genesis of carotid body chemosensory activity. *J Appl Physiol.* 112:2002-10
- 2012 Conde SV, Nunes da Silva T, Carmo MM, Monteiro EC and Guarino MP. Chronic caffeine intake decreases circulating catecholamines and prevents diet-induced insulin resistance and hypertension in rats. *Br J Nutr.* 107:86-95 (IF 3,013).
- 2011 Charneira C, Godinho AL, Oliveira MC, Pereira SA, Monteiro EC, Marques MM, Antunes AM. Reactive aldehyde metabolites from the anti-HIV drug abacavir: amino acid-adducts as possible factors in abacavir toxicity. *Chem Res Toxicol.* 24:2129-41.
- 2011 Monteiro TC, Batuca JR, Obeso A, Gonzalez C and Monteiro EC. Carotid Body Function in Aged Rats: responses to Hypoxia Ischemia, Dopamine and Adenosine. *Age,* 33:337-50 (IF 6,28).
- 2010 Nunes AR, Batuca JR, Monteiro EC. Acute hypoxia modifies cAMP levels induced by inhibitors of phosphodiesterase-4 in rat carotid bodies, carotid arteries and superior cervical ganglia *Br J Pharmacol.* 159, 353–361. (IF 4,409)
- 2009 Pereira SA, Batuca JR, Caixas U, Branco T, Delgado-Alves J, Germano I, Lampreia F, Monteiro EC. Effect of efavirenz on high-density lipoprotein antioxidant properties in HIV-infected patients. *Br J Clin Pharmacol.*; 68:891-7.
- 2009 Conde SV, Monteiro EC, Obeso A, Gonzalez C. Adenosine in peripheral chemoreception: new insights into a historically overlooked molecule. In: *The Arterial Chemoreceptors.* C González, C Nurse and C Peers (ed.). Springer, New York. *Adv Exp Med Biol.* 648:145-59
- 2009 Nunes AR, Monteiro, EC, Johnson SM and Gauda EB. Bicarbonate-Regulated Soluble Adenylyl Cyclase (sAC) mRNA Expression and Activity in Peripheral Chemoreceptors. In: *The Arterial Chemoreceptors.* C González, C Nurse and C Peers (ed.). Springer, New York. *Adv Exp Med Biol.* 648:235-41
- 2009 Monteiro TC, Obeso A, González C and Monteiro EC. Does Ageing Modify Ventilatory Responses to Dopamine in Anaesthetised Rats Breathing Spontaneously? In: *The Arterial Chemoreceptors.* C González, C Nurse and C Peers (ed.). Springer, New York. *Adv Exp Med Biol.* 648:265-71
- 2009 Conde SV, Obeso A, Monteiro EC and González C. The A2B-D2 receptor interaction that controls carotid body catecholamines release locates between the last two steps of hypoxic transduction cascade. In: *The Arterial Chemoreceptors.* C González, C Nurse and C Peers (ed.). Springer, New York. *Adv Exp Med Biol.* 648:161-8
- 2009 Nunes AR, Batuca JR, and Monteiro EC. Functional characterization of phosphodiesterases 4 in the rat carotid body: effect of oxygen concentrations. In: *The Arterial Chemoreceptors.* C González, C Nurse and C Peers (ed.). Springer, New York. *Adv Exp Med Biol.* pp.129-136 648:113-9

Other publications

2013 **Monteiro EC.** Academic clinical trials in surgery. Revista Portuguesa de Cirurgia (in press)

2011 **Monteiro EC.** Avaliação de tecnologias em saúde no contexto do sistema de saúde. Em: Cadernos Saúde e Sociedade, Avaliação de Tecnologias em Saúde, pp 21-29. Adalberto Campos Fernandes (ed.), Diário de Bordo, Loures.

2011-2013 Santos I, Pinto D, Heleno P, Caetano P and **Monteiro EC.** National Therapeutic Guidelines - Normas da Direção Geral de Saúde www.dgs.pt.

Supressão Ácida: Utilização dos Inibidores da Bomba de Protões e das suas Alternativas Terapêuticas (nº036/2011)

Antibioterapia na Pneumonia Adquirida na Comunidade em Adultos Imunocompetentes (nº45/2011)

Anti-inflamatórios não esteróides sistémicos em adultos: orientações para a utilização de inibidores da COX-2 (nº13/2011)

Utilização e seleção de anti-agregantes plaquetários (nº014/2011)