



Dr Ana Reis

Post-doc, Dpt Chemistry (Universidade de Aveiro)

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Education

2006: PhD in Biochemistry (Universidade de Aveiro, Portugal)

2002: Master in Food Chemistry and Natural Products (Universidade de Aveiro, Portugal)

1997: Degree in Analytical Chemistry (Universidade de Aveiro, Portugal)

Professional and Research Experience

Jul, 2015 – present: Post-Doctoral Fellow at Mass Spectrometry group, Chemistry Department, Universidade de Aveiro (Portugal). Project title: Sphingolipidomics of leukocytes as an exploratory platform for the identification of antigens for chip-based technology in the diagnosis of autoimmune diseases (SFRH/BPD/101916/2014)

Dec, 2013 – Jun, 2015: Post-doctoral Research Fellow at CICECO (UA) – QREN/NMC/34169.

Dec, 2012 – Mar, 2013: Post-doctoral Research Fellow at School of Life and Health Sciences (LHS) Aston University (Birmingham, UK)

May, 2011 – Oct, 2012: Marie Curie Research Fellow at School of Life and Health Sciences (LHS) Aston University (Birmingham, UK). Project title: Identification of phospholipid-ApoB adducts in atherosclerosis by a mass spectrometry approach.

Nov, 2010 – April, 2011: Marie Curie Research Fellow at Strathclyde Institute of Pharmacy and Biomedical Sciences (SIPBS), University of Strathclyde (Glasgow, UK). Project title: Identification of phospholipid-ApoB adducts in atherosclerosis by a mass spectrometry approach.

Oct, 2010: Research Associate at Strathclyde Institute of Pharmacy and Biomedical Sciences (SIPBS), University of Strathclyde (Glasgow, UK).

Jan, 2010 – Sept, 2010: Post-Doctoral Fellow at Mass Spectrometry group, Chemistry Department, Universidade de Aveiro (Portugal). Project title: Identification of phospholipid-ApoB adducts in LDL particles: a mass spectrometry. Implications for atherosclerosis (SFRH/BPD/64719/2009).

Oct, 2006 – Sept, 2009: Post-Doctoral Fellow at Mass Spectrometry group, Chemistry Department, Universidade de Aveiro (Portugal). Project title: Development of methodologies for the characterization of protein free radicals by mass spectrometry (SFRH/BPD/24890/2005).

Oct, 1997 – Dec, 2000: Laboratory technician at Biochemistry and Food Chemistry group, Chemistry Department, Universidade de Aveiro (Portugal)

List of publications (2001- present, 50, *h-index* 18)

Relevant publications:

A. Reis, A. Rudnitskaya, G.R. Blackburn, N. Moud-Fauzi, A.R. Pitt, C.M. Spickett “A comparison of five solvent systems in the extraction of lipids of human LDL” (2013) J. Lipid Res., 54, 1812-1824.

A. Reis, A. Rudnitskaya, P. Chariyavilaskul, N. Dhaun, V. Melville, J. Goddard, D.J. Webb, A.R. Pitt, C.M. Spickett “Top-down lipidomics of low density lipoprotein reveal altered lipid profiles in advanced chronic kidney disease” (2015) J. Lipid Res., 56, 413-422.

A. Reis, P. Domingues, M.R.M. Domingues “Structural motifs in oxidised palmitoyl-arachidonoyl-phosphatidylcholine by LC-MS/MS” (2013) J Mass Spectrom., 48, 1207-1216

CM Spickett, **A Reis**, AR Pitt “The use of narrow mass-window, high resolution extracted product ion chromatograms for the sensitive and selective identification of protein modifications” (2013), Anal. Chem. 85, 4621.

A. Reis, Corinne M Spickett, “Chemistry of oxidized phospholipids” Invited Review, Biochim. Biophys. Acta, (2012) 1818, 2374-2387.

Career Achievements, Prizes and Awards

2010: SIPBS travel grant to attend the Free Radical and Oxidants Meeting (Aston University, Birmingham, UK).

2012: Hermann Esterbauer Award for outstanding work in the lipid peroxidation area (HNE Club, Imperial College).

2012: Young Investigator award by the Oxygen Club of California, with work on the detection of oxidised phospholipids in Malaria infected RBC, Alba (Italy).

2013: Studies on the optimum solvent systems for the extraction of lipids from plasma received “A comparison of five solvent systems in the extraction of lipids of human LDL” highlighted in cyberlipids website (<http://www.cyberlipid.org/extract/extr0005.htm>) and allowed to broaden the lipidome of LDL particles to more than 350 molecular lipids from 15 lipid classes.

2013: Development of mass spectrometry-based method designed for the detection of oxidative modifications by oxidised phospholipids in ApoB-100 protein and published in Analytical Chemistry.

2015: Best showcase Award at Jornadas do CICECO with the “Functionalization of nanocellulose and soluble xylans – development of new cellulosic materials from *E. globulus* kraft pulp” (ex-aqueo).

Teaching and Outreach activities

2015: Organizing member of the 3rd Workshop in Immunology (Dpto Quimica, UA).

2015: Module of “Molecular and Macromolecular characterization techniques” within the doctoral program in Sustainable Chemistry.

2007-2008: Tutor in practical component in “Quimica I” and “Quimica II”.

2004-2009: Demonstrator in Research day and Open University day.

Complementary training skills

Feb, 2012: Basic Phlebotomy Training skills (15 hours), Birmingham certified by the Open College Network

Jan, 2012: Human Act Training course, Aston University, Birmingham

Oct, 2010: EMBO Laboratory Management course “The art of leadership – fewer conflicts, more results” (22 hours), Heidelberg, Germany

Languages

Portuguese (native language), English (written and spoken), French (written and spoken), basic knowledge of German (written and spoken), basic knowledge of Italian (written and spoken).

13th October, 2015