



**Dr Ana Reis**

Post-doc, Dpt Chemistry (Universidade de Aveiro)

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## Education

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

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

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

## Professional and Research Experience

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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*: 20)

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##### Relevant publications:

**A. Reis** “Oxidative Phospholipidomics in health and disease: achievements, challenges and hopes” (2017), Free Rad. Biol. Med., *Special Issue*, in press (10.1016/j.freeradbiomed.2017.01.014).

**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

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**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.

**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

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

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

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

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

**2016:** Teaching member in the practical course “From Basics to LC-MS data: acquisition and interpretation”, editions of February 2016, May 2016 (University of Aveiro).

### Complementary training skills

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

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

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

### Languages

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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).

11<sup>th</sup> January, 2017