

Dr. Mireia RODRIGUEZ-ZUBIRI (CNRS Researcher – HDR)

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FORMATION

1999-2002: **PhD Thesis**, Chemistry School, Purdie Building, University of St Andrews (Scotland). Supervisors: Prof David J. Cole-Hamilton, Prof J. Derek Woollins, Prof Alexandra M. Z. Slawin.

1999: **Master Bio-Inorganic Chemistry**, Faculty of Mathematics and Natural Sciences, University of Leiden (Netherlands). Supervisors: Prof Jan Reedijk, Dr Jan-Maarten Teuben.

1993-1999: **University studies in Chemistry**, University of València (Spain). University degree Master 2 Chemistry.

RESEARCH ACTIVITIES

2012-now: **CNRS Researcher**, Laboratory CEISAM, Nantes

Topic: « [Continuous Flow Synthesis](#) ».

Topic: « [Transition metals catalysed C-C and C-X coupling reactions: towards a heterogeneous version](#) »

2005-2012: **CNRS Researcher**, Laboratory LCC, Toulouse.

Topic: « [Intermolecular Hydroamination of \$\alpha\$ -Olefins](#) ». Design of new platinum and rhodium-based catalytic systems for the intermolecular hydroamination reaction in the presence of molten salts, their kinetic and theoretical studies.

2004-2005: **Assistant Professor** (12 months), Laboratoire de Synthèse Organométallique et Réactivité (UMR 7565), University of Lorraine. Scientific Advisor: Prof Yves Fort.

Topics: « [Synthesis of new polyheteroaromatic phosphorus ligands](#) » and « [Carbon Nanotubes Functionalisation](#) ». Synthesis of phosphorous multisite ligands from deficient heteroaromatic compounds in the presence of Li-superbases. Functionalisation of carbon nanotubes using the classical organic strategy and their covalent incorporation in a polymeric matrix for the transfer of promising mechanical properties.

2003-2004: **Post-doctoral fellow « poste rouge CNRS »** Associated Researcher (12 months), Laboratoire LCC, Strasbourg (University of Strasbourg, UMR 7513). Scientific Advisor: Dr Pierre Braunstein.

Topic: « [Synthesis of new clusters containing diphosphino- and/or alkyne functionalised ligands as magnetic and electronic nanoparticles precursors](#) ». Synthesis and characterisation of P-S ligands, their cobalt metallic clusters, their assembling dendrimers containing 12-14 cobalt atoms and their grafting into inorganic matrix.

Funding: C.N.R.S and the European Postgraduate School (C.N.R.S-Graduierntenkolleg 532)

1999-2002: **PhD Thesis in Organometallic Chemistry** (3 years). Supervisors: Prof David J. Cole-Hamilton, Prof J. Derek Woollins, Prof Alexandra M. Z. Slawin, University of St Andrews, Scotland.

Title: « [Design, Synthesis and Catalysis with P-N Ligands](#) ». Synthesis of new P-N ligands, their coordination chemistry and their catalytic performance in the hydroformylation of olefins and the allylic alkylation reaction. Modelling studies on the structural properties of the new bis(aminophosphines) ligands.

Funding: EPSRC and University of St. Andrews.

1999: **Master Project** (7 months), Faculty of Mathematics and Natural Sciences, University of Leiden, The Netherlands. Supervisors: Prof Jan Reedijk, Dr Jan-Maarten Teuben.

Title: « [Platinum Antitumoral Chemistry](#) ». Kinetic studies of the interaction process between platinum complexes (cisplatin models) and model proteins and peptides in order to find out their role in the platinum metabolism (ADN platination).