

## Curriculum Vitae

### Personal data:

Name: M<sup>a</sup> del Mar Tristany Soler

Date of birth: 2<sup>nd</sup> January 1979

Affiliation: *Laboratoire de Chimie de Coordination du CNRS-Toulouse*

Position: Post-doctoral researcher

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### Studies:

2002-2005: Ph.D. student at Universitat Autònoma de Barcelona (Spain), Organic Chemistry Department, under the supervision of Prof. Marcial Moreno-Mañas. Degree thesis on polyfluorinated compounds in the stabilization of metal nanoparticles (palladium(0), gold(0), ruthenium(0) and platinum(0)).

1997-2001: First class degree with full marks in Chemistry at Autònoma de Barcelona (Spain).

1993-1997: Scientific High School Degree with full marks in Barcelona (Spain).

### Past scientific job experiences:

2004: *Laboratoire de Chimie de Coordination du CNRS*, Toulouse (France), Spanish fellowship for a 3 months collaboration with the group of Prof. Bruno Chaudret to work in the preparation and characterization of fluorinated ligand-stabilized ruthenium(0) and platinum(0) nanoparticles.

2003-2004: *Universitat Autònoma de Barcelona* (Spain), part-time assistant in teaching laboratories of Organic Chemistry undergraduate courses and Structural Determination in Organic Chemistry undergraduate courses.

Summer 2001: *Cognis Iberica S.L.* (surfactants industry), Barcelona (Spain), student in practices in the Analysis Department and Quality Control Department, developing and testing new methods of analysis.

### **Language knowledge:**

English – correct spoken, written and understood

French and Italian – basic, better spoken and understanding than written.

Spanish and Catalan – native languages

### **Computer knowledge:**

Good knowledge of the Microsoft Office pack (Word, PowerPoint, Excel) and of the Internet typical software (Explorer, Netscape Navigator). Experience with chemical software (Chemdraw, Metamorph, Gatan DigitalMicrograph, WINNMR, Image Analysis).

### **Publications:**

1. “Palladium, nanoparticles obtained from palladium salts and tributylamine in molten tetrabutylammonium bromide: their use for hydrogenation of olefins” – Jean Le Bras, Deb Kumar Mukjerjee, Sara Gonzalez, [Mar Tristany](#), Marcial Moreno-Mañas, Roser Pleixats, Françoise Hénin, Jacques Muzart. *New Journal of Chemistry*. **2004**, 28, 1550 - 1553.
2. “Gold nanoparticles entrapped in heavily fluorinated compounds” – Marcial Moreno-Mañas, Roser Pleixats, [Mar Tristany](#). *Journal of Fluorine Chemistry*. **2005**, 126, 1435-38.
3. “Palladium nanoparticles entrapped in heavily fluorinated compounds” – [Mar Tristany](#), James Courmarcel, Philippe Dieudonné, Marcial Moreno-Mañas, Roser Pleixats, Albert Rimola, Mariona Sodupe, Silvia Villarroya. *Chemistry of Materials*. **2006**, submitted.

### **Conference presentations and posters:**

1. September 2005, *Working group meeting of COST D24/0013/02* Paris, France. “
2. Palladium and gold nanoparticles stabilized by heavily fluorinated compounds“. Marcial Moreno-Mañas, Roser Pleixats and [Mar Tristany](#). Oral Communication.

2. June 2005, *Nanoparticules Métalliques en Catalyse (3rd NANOMETCAT)*. Tarragona, Spain. "Preparation and characterization of fluorinated ligand-stabilized ruthenium(0) and platinum(0) nanoparticles". Mar Tristany. Oral Communication.
3. October 2004, *Nanoparticules Métalliques en Catalyse (2nd NANOMETCAT)*. Toulouse, France. "Polyfluorinated compounds as gold (0) nanoparticles stabilizers". Mar Tristany. Oral Communication.
4. October 2004, *Green Solvents for Synthesis*, Bruchsal, Germany. "Pd-catalysed reactions of alcohols in a molten salt and a new path to pd-nanoparticles". [B. Ganchegui](#), D. Khumar Mukherjee, [M. Del Mar Tristany Soler](#), S. Bouquillon, J. Le Bras, R. Pleixats, F. Hénin, M. Moreno-Mañas, J. Muzart. Poster.
5. September 2003, *Trends in Nanotechnology*. Salamanca, Spain, "Perfluorofunctionalization of carbon nanotubes". [G.Gabriel](#), J.Casabo, [M.Tristany](#), M.Moreno-Mañas, M.T.Martinez, C.Miravilles. Poster.

### **Other knowledge:**

Participation in practical courses of Transmission Electron Microscopy, Quantitative and Statistical Analysis in Morphological comparative Studies and interdisciplinary courses in Nanoscience and nanotechnology.