

Marie-Virginie SALVIA

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Born_03/27/1986, Sainte-Foy-Lès-Lyon (FRANCE)



RESEARCH INTERESTS

Environmental chemistry: development of analytical procedures for the detection of contaminants in environmental matrices (water, soil, sediment,...), metabolomics studies (statistical studies using R software)

Analytical chemistry: Nuclear Magnetic Resonance (NMR) spectroscopy, High Performance Liquid Chromatography (HPLC), Electrospray Ionisation for Mass Spectrometry (ESI-MS and ESI-MS/MS), Isothermal Titration Calorimetry (ITC), Scanning Electron Microscopy (SEM), Transmission Electron Microscopy (TEM), UV-Visible Absorption, Fluorescence, X-ray crystallography, Pressurized Liquid Extraction (PLE), Quick, Easy, Cheap, Effective, Rugged, Safe Extraction (QuEChERS), Solid Phase Extraction (SPE)

PROFESSIONAL EXPERIENCE

14 publications in International Journals

Involved in 1 patent (in progress)

25 communications in Conferences (13 International and 12 National, France, UK, Italy)

Since September 2015

Associate professor at the University of Perpignan Via Domitia (UPVD), CRIOBE laboratory (Centre de Recherches Insulaires et Observatoire de l'Environnement), FRANCE.

Research: Development of metabolomics approaches to study the environmental impact of contaminants using LC-MS and NMR.

Teaching: 192 h/year in chemistry: the basis of chemistry, organic chemistry, analytical chemistry, electrochemistry (in charge of the course for Bachelor 3), environmental chemistry (Master 1 and in charge of the course for Bachelor 2).

Supervised 2 students: Master 2 (6 months), IUT (3 months). She is supervising 1 postdoc student for 6 months.

- Since September 2016: Treasurer in PO2N association
- 21 - 23 September 2016: Member of the Scientific committee of the "Natural products & Biocontrol 2016" congress (Perpignan) - <http://www.biocontrol2016.com/>
- May 2016: Took part in a selection commission of an associate professor (University of Montpellier)

2014 - 2015

University of Padova, Department of chemistry, ITALY - Postdoc position.

Development of innovative NMR methodologies for the study of the monolayer-protected nanoparticles as well as their interaction with small organic molecules.

Supervised Bachelor and Master students from the University of Padova.

2012 - 2013

Ecole Centrale de Lyon, Lyon, Institut des Nanotechnologies de Lyon (INL), « Chimie et Nanobiotechnologies » team, France - ATER position (12 months, research and teaching).

Research: Synthesis of hybrid nanoparticles (Au/SiO₂/SiC) with enhanced fluorescence using the plasmon effect for biomedical applications (cellular imaging) and nanoparticles (Au/SiO₂/Alexa) / Characterization was carried out using *SEM, TEM, UV-Visible Absorption and Fluorescence*.

Teaching: practical works and tutorials in chemistry (96 hours).

2009 - 2012

Teacher and research assistant during Ph.D. (see details of Ph.D. below in “Education” Section): practical works in general chemistry, analytical chemistry, thermodynamics (*CPE Lyon, University of Lyon and INSA Lyon*) - Supervised Master students from CPE Lyon.

2008

Jet Metal Technologies, Lyon, France- Metallization of different surfaces by the Jet Metal technique.

EDUCATION

2009 - 2012

Service Central d'Analyses (SCA), Institut des Sciences Analytiques (CNRS). Villeurbanne, FRANCE.

Ph.D. in Analytical Chemistry. “Development of methodological and analytical tools for the analysis and monitoring of veterinary antibiotics and steroid hormones at trace levels in water and soil” (LC-MS/MS, QuEChERS, PLE, SPE, X-ray crystallography). BDI CNRS grant - *Oral congratulations of the Jury*.

2008 - 2009

University of Strathclyde, Glasgow, UNITED KINGDOM.

M.Phil. in Forensic and Analytical Chemistry. Erasmus and Explo'ra Sup fellowships.

Research work in the NMR lab: “Investigation of Self-Assembly and Interaction Behaviour of Small Organic Molecules in a DNA Binding Context” using NMR and ITC

Qualified with a double diploma: Chemical Engineering Diploma from CPE Lyon and M.Phil. from the University of Strathclyde.

2006 - 2008

CPE Lyon (Lyon Engineering School of Chemistry, Physics and Electronics), Lyon, FRANCE.

Third and fourth year of higher education

Qualified with BSc in June 2007 (Chemistry).

OTHER

Distinctions

2008 - Awarded with GlaxoSmithKline (GSK) organic chemistry Prize.

Languages

French - Mother tongue.

English - Good skills, both written and oral. Obtained FCE (First Certificate in English) in 2009.

Italian - Good working knowledge (level B1: 89/100).

Computing skills

Office Software Applications - Word, Power Point, Excel.

Data Analysis and Programming - Origin, Statistical R and SPSS softwares, C++.

Computer Tools for Chemistry.