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PhD in Organic Chemistry & Cell Biology

My dual training program in both organic chemistry and biochemistry gave me the opportunity to easily comprehend biological problems through a chemist's eye. It has also given me the chance to better myself and my scientific skills while allowing me to occupy a turn point position in a medicinal chemistry laboratory; on the verge of both exciting sciences.

While actively participating in modern research projects for the past five years, I have also developed a passion for reading, writing and reviewing scientific publications. The daily usage of computers has granted me multiple computer skills. My very rich teaching experience has given me a new point of view in science. As a matter of fact, being able to teach chemistry (both organic and inorganic) is no easy task. It requires dynamism and a very strong communicational aptitude.

I strongly believe that my intensive scientific training and my love of scientific specialties such as organic chemistry, biochemistry and biology, along with my general enthusiasm, perfectionism, organizational and communication skills, will be the keys to my integration in your group.

I am currently looking for a position in research & development in both industry or academia.

Work experience

Since June 2008	Research associate Mission: Organic syntheses of radio-labelled fatty acids Means: * Organic chemistry * Purification methods * Radio-chemistry
March 2008 May 2008	Research associate Mission: Organic syntheses of novel dipyrindiny-piridazine ligands. Means: * Organic synthesis * organometallic and macromolecular synthesis
September 2006 August 2007	Assistant professor University of Orléans, France Mission: Research : Organic synthesis of modified nucleosides as new potent antiviral therapies. Teaching : Organic chemistry at all levels (bachelor's and master's).
November 2005 July 2006	Postdoctoral fellow University of Maryland, College Park, USA Mission: Organic syntheses of Iodotyrosine Deiodinase inhibitors. This enzyme is essential to the recycling of iodine within the tyroïd. Two different compounds have been synthesized : a difluoromethyl and an oxaspiro derivative of tyrosine. Means: Organic synthesis Analytical methods

September 2002
October 2005

Doctoral fellow

University Louis Pasteur - Strasbourg, France

Mission: Five series of hybrid compounds bearing a long chain fatty alcohol and a quinol ring (Quinol Fatty Alcohols) were synthesized. C-alkylated QFAs were obtained by a Sonogashira cross-coupling reaction between various arylbromides and terminal alkynes. N- or O-alkylated homologues were obtained by SN2 type reactions.

These different compounds have very good antioxidant activities in their demethylated form sometimes reaching a hundred-fold increase relative to Trolox®, a known antioxidant. On the other hand, the QFAs, and especially QFA15, bearing 15 carbon atoms on the side chain, have the capacity to promote axonal growth. QFA15 allows proper axonal extension at nanomolar concentration, on both normal and inhibitory substrates.

Means: * Organic syntheses

* Solid support synthesis

* Analytical methods

* Bibliographic tools

* Computer skills

* Cell biology & Neuroscience

Appraisal: * 5 scientific publications

* 2 patents

Diplomas and education

September 2002
October 2005

University Louis Pasteur - Strasbourg, France

PhD in Organic Chemistry and Cell Biology

Organic synthesis of Quinol Fatty Alcohols and evaluation of their biological activity

Area of specialisation: Organic Chemistry - Cell Biology

September 2000
June 2002

University Louis Pasteur - Strasbourg, France

Master's degree in Biochemistry and Organic Chemistry

1st year : Structural biochemistry

2nd year : Organic chemistry

September 1997
June 2000

University Louis Pasteur - Strasbourg, France

Bachelor's degree in Biology and Biochemistry

Computing skills

Software

Microsoft Office

ChemDraw

IsisDraw

MestreC

NMR Notebook

KyPlot

Beilstein

MDL Isis-Base

SciFinder

Adobe Acrobat

Language skills

English

Speaking competence: Fluent, **Written competence:** Fluent

Italian

Speaking competence: Intermediate, **Written competence:** Intermediate

Spanish

Speaking competence: Basic level, **Written competence:** Basic level

Various

Reading

Police novels
Historic novels

Cinema

Every kind of film

Music

Classic
Country
Rock
French & English varieties

Roller Blades

Amateur