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Emma SIERECKI

Personal information

Age : 25 , born 11/16/1979, Nationality : French, Status : Single

Academic formation

2005-2002 :

Ph.D. Thesis at University René Descartes, Paris V. supervisor: Dr Thierry MARTENS.

2002 :

Master degree (Université René Descartes, Paris V), Mention : BIEN
« *Chimie et Physicochimie des composés d'intérêt biologique* », (Dr Jacques ROYER, UMR8638)

Magistère Interuniversitaire de Chimie, Ecole Normale Supérieure (Ulm):
(Pr Jean-Noël VERPEAUX, Ecole Normale Supérieure.)

2000 :

-Bachelor degree (Magistère Interuniversitaire de Chimie, Ecole Normale Supérieure, University Paris VI)

Laboratory experiences

2002-2005 : **Ph.D. thesis** (« Synthesis and Characterization of Bioactive Compounds »UMR 8638, director : J. ROYER), supervisor: Dr T. MARTENS

July- August 2003 : **peptide synthesis** (P.E.N.C.E, University of Alberta, AL, Canada)
Marc GENEST, Pr. Robert HODGES.

2002-2001 : **Master training period** (« Synthesis and Characterization of Bioactive Compounds »UMR 8638, director : J. ROYER), supervisor: Dr T. MARTENS

2001 : **consulting** for **Fluidigm** (1month) (biotechnology and microfluidic company)
San Francisco, CA, USA

2001 : **Training period** (6 months) (« Synthesis, Characterization, and Study of novel inorganic molecules and materials », California Institute of Technology, Pasadena, CA, USA).
Jonas C. PETERS.

2000 : **Training period** (1 month) (« Bioorganic Chemistry, Vectorisation »UMR 176 CNRS/IC, Institut Curie, Paris), M. Azoulay, C. Monneret

2000 : **Training period** (15 days) (« Organic et Organometallic Synthesis », UMR 7611, University Paris VI) B. Andrioletti, E. Rose

2000 : **Training period** (15 days) (« Macromolecular Synthesis », UMR 7610, University Paris VI) T. Lalot, E. Maréchal, J.P. Vairon

1999 : **Training period** (15 days) (« Selective Processes in Organic and Bioinorganic Chemistry », URA 1686, Ecole Normale Supérieure, Paris) R. Chevalier, P. Sinay

Supervising and teaching experiences

Teaching experience: during 3 years, I got to teach analytical chemistry to second-year pharmacy students through practical classes.

Student supervising :

I had the opportunity to coach four students during my Ph.D. I supervised their experimental work as well as their writing of reports.

- Student (1st year in **Master degree**) (3 months)
- 3 students (1st year in **BTS, technician degree**) (3 months each)

Publications

Anodic oxidation of chiral sulfinylamines : a new route to highly diastereoselective α - alkylation of piperidine
S. Turcaud, T. Martens, E. Sierecki, J. Perard-Viret, J. Royer
Tetrahedon Letters, 46 (2005) 5131-5134

Reactivity of phosphoryliminiums_Part I_ Variation of the chiral inductor
E. Sierecki, T. Martens, J. Royer, to be submitted

Reactivity of phosphoryliminiums_Part II_ Variation of amine, nucleophile and second oxidation
E. Sierecki, T. Martens, J. Royer, in preparation

Electrochemical behaviour of phosphorylamines.
E. Sierecki, T. Martens, J. Royer, in preparation

Strength of anchorage of transmembrane peptides
Y. Gambin, E. Sierecki, R.S. Hodges, F. Pincet, W. Urbach, to be submitted

Consequences of hydrophobic mismatch
Y. Gambin, E. Sierecki, R.S. Hodges, F. Pincet, W. Urbach, to be submitted

Technical knowledge

- ✚ Analysis: NMR (proton, carbon, phosphorus), analytical HPLC, standard analysis procedures (GC, UV, IR...), electrochemical tools (cyclic voltametry)...
- ✚ Synthesis: glove box, Schlenk techniques, solid-phase peptide synthesis...
- ✚ Computer: Word, Power Point, Chem Draws, online databases (SciFinder, Belstein, editor's websites...)
- ✚ Languages: French, English (fluent), German (scholar).