

Please find below CV of two directors.

Dr. CLAIRE CEBALLOS (PHD)

Assistant Professor
Ecole Supérieure de Chimie Organique et Minérale
1 Allée du réseau Jean-Marie Buckmaster
60200 Compiègne, France
Tel: (33) 3 44 23 88 01
Email: c.ceballos@escom.fr

CURRENT STATUS

September 2011 – Present : Assistant Professor at the Higher School of Organic and Mineral Chemistry, Compiègne, France

Research on synthesis of new compounds derived from biomass. Evaluation of their biological properties.

Courses : analytical chemistry, practical work in organic chemistry

APPOINTMENTS

October 2010-July 2011: ATER (Temporary teaching and research associate), Cnam (Conservatoire Nationale des Arts et Métiers) (Supervisor: Pr. Clotilde Ferroux).

January 2010-August 2010 : ATER (Temporary teaching and research associate) at the IUT (**University Institute of Technology**) in chemistry of Créteil-Vitry, Paris, Teaching in first and second years of IUT

Courses : analytical chemistry, organic chemistry (practical work and remedial)

EDUCATION

October 2009

PhD in Organic Chemistry (with honours)
Interdisciplinary Center of Nanosciences of Marseille, Laboratory of Molecular Engineering, University of Aix Marseille II, France

Subject : Synthesis of new compounds (nucleolipids) with therapeutic activities : application to the gene therapy

Advisor : Dr Michel Camplo

2006

M.S., Organic Chemistry, University of Paris-Sud, France

Subject : Synthesis of Si-compounds

2004-2005

B. E. and Master I in Chemistry, University of Paris-Sud, France

EXPERTISE

- **Organic Chemistry** : Exposure to synthetic tasks involving development of new methodologies and synthesis of biologically active organic molecules from biomass, purification of organic molecules, chemistry of phenol compounds, nucleosides, lipids, thiophenes, organometallic chemistry, polymers
- **Electrochemistry**
- **Analytical chemistry (NMR, mass spectrometry, IR, HPLC, GC-MS, LC-MS)**
- **Research project management**, oral & posters communications, bibliographic research
- **Supervision of PhD and undergraduate students' research activities**
- **Computer** : MS Office, Chemdraw, WinNMR, Sci Finder
- **Languages** : French (mother tongue), English (read and written scientific), german (school)
- **Technology awareness**
- **Knowledges in cellular biology and physico-chemical studies**

Publications : 10

Oral communications : 3

Posters : 5

MAGALI DELEU

Permanent as Senior Research Associate FRS-F.N.R.S (Biophysics at interfaces)

Gembloux Agro-Bio Tech – Liege University magali.deleu@ulg.ac.be
(Gx-ABT, Uliege) Phone: +32 (0)81.62.26.38
Laboratory of Molecular Biophysics at
Interfaces (LBMI)
Passage des Déportés, 2 - 5030 Gembloux
Belgium

RESEARCH TOPICS AND EXPERTISE

- **Molecular mechanisms** involved in the perception of structurally different bioactive molecules (peptides, lipopeptides, glycolipids, proteins) by biological membranes.
- **Structure/function** relationships with regard to some agronomical applications like eliciting and allelopathic activities and to human health like antibacterial effect,
- **Molecular level** characterization of the interaction between bioactive molecules and **specific lipids** or lipid domains present in biological membranes
- **Rational design** of new molecules (chemical or enzymatical synthesis) with tailored membrane property in relation with different biological activities (antibiotics, antiviral, antifungal, plant eliciting)
- **Design of tailored biomimetic membranes**
- **Membrane characterization**

Keywords: Surfactants, biological molecular mechanisms, membrane interactions, lipid specificity, biophysics

DIPLOMA

1993 : Diploma of « Candidat ingénieur en sciences agronomiques », Gx-ABT, Ulg-Distinction

1996 : Diploma of « Ingénieur chimiste et des bio-industries », Gx-ABT, Ulg -The highest distinction

1997 : Diploma of Advanced Studies in Agricultural Sciences and Biological Engineering (D.E.A.), Gx-ABT, Ulg -The highest distinction

2000 : PhD in Agricultural Sciences and Biological Engineering, Gx-ABT, Ulg -The highest distinction

- PhD thesis: Propriétés de la surfactine et de la fengycine A aux interfaces liquide/liquide et dans des émulsions modèles. (2000). Gx-ABT, Ulg, Supervisor : Prof. M. Paquot.

- Additional thesis: Les effets thérapeutiques de la pectine doivent encore être prouvés. (2000). Gx-ABT, Ulg, Supervisor : Prof. M. Paquot.

POSITIONS

Since 01/10/2014

Senior Research Associate from Belgium National Funds for Scientific Research (F.R.S. - F.N.R.S.)

Topic: Roles of membrane lipids into the perception of amphiphile molecules with agronomical or human health applications.

01/10/2003-30/09/2014

Research Associate from Belgium National Funds for Scientific Research (F.R.S. - F.N.R.S.)

Topic: Surfactants from natural resources: their physico-chemical and membrane properties, development of molecules with a specific potential application.

01/10/ 2000 - 30/09/2003

Post-doctoral researcher F.R.S.- F.N.R.S.

Topic: Study of the membrane activity mechanisms of fengycins in relationship with their structure and their conformation

01/05/2003 – 31/07/ 2004

Post-doctoral researcher at Lund University, Department of Physical Chemistry (Prof. T. Nylander), Lund, (Sweden). Grant from a Marie-Curie Individual Fellowship.

Topic: Modelling of fengycin-cell interaction by surface and membrane biophysical chemistry approach

01 /10 /1996 – 30/09/2000

Research fellow F.R.S.-F.N.R.S.

Topic: Study of the relationships between the structure, the fundamental surface properties and the emulsifying properties of homologous and isoform lipopeptides from *Bacillus subtilis*.

SCIENTIFIC ACTIVITIES

ARTICLES (SEE ORBI REPORT)

Authors of - 87 articles in peer-reviewed journals (h-index = 28; 2673 citations, Google Scholar)

- 1 chapter of book

- 1 book

- 1 patent

- 34 oral communications in international congress

- ~115 posters in international congress

RESEARCH PROJECTS

Principal investigator or collaborator of 19 research projects (past and present):

- 3 european projects (FP4, FP6, H2020 Era CoBiotech)

- 5 projects funded by the Walloon Region (991/4234-9914434, 114838, 021/5103, 716 7

projects funded by Belgian F.R.S- FNRS (crédits aux chercheurs 1.5.078.03.F; 1.5.055.06.F, FRFC n°2.4558.98; 2.4.523.09; 2.4.628.1.F; PDR T.1003.14; CDR J.0086.18)

- 3 projects funded by Gx-ABT, including 2 Concerted Research Action (ARC "Superzym" 08-13/01; ARC "FIELD")

- 1 project funded by "University Commission for Development» (PIC)

- 1 project funded by French CNRS (Ingecotech)

- 1 project funded by WBI (Persalce)
- 1 FWV INTERREG V (VALBRAN) 757)

STUDENT SUPERVISING OR TUTORING (PAST AND PRESENT)

- Scientific tutor of - 16 bachelor in Sciences or equivalent
- 12 masters in Chemistry and Bio-industries or equivalent
- 11 PhD in Sciences (8 under progress)
- Censor for PhD thesis (5)
- Member of PhD thesis jury (16)
- Member of Master final work jury (29)