**DUFAU Chrystèle**

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**CNU :** 32

**Current position:** lecturer-researcher

Laboratoire de biotechnologie et Chimie Marines (LBCM)-*Laboratory of Marine Biotechnology and Chemistry* - Université de Bretagne-Sud (UBS)- BP 92116-56321 Lorient Cedex – France

**Education, work experience and current position**:

1990: PhD in Fine Chemistry, Université de Bretagne Occidentale (UBO), France

Synthesis of 3,4-diaminobutylidène-1,1-diphosphonic acid and study on the formation of its complex N,N'-(3,4-diaminobutylidène-1,1-diphosphonic acid)dichloroplatine (II)

(objective: obtaining a molecule against bone cancer). Supervisor: Pr G. STURTZ, Laboratoire de Chimie Hétéro-organique, UBO, France

*Academic career:* 1990 -1992 : non-permanent lecturer-researcher (ATER), Laboratoire de Chimie Hétéro-organique, Department of Chemistry, UBO, France.1992-1996 : lecturer-researcher, UFR Santé, Médecine et Biologie Humaine, Université Paris 13, France.

Since 1996: lecturer-researcher, Université de Bretagne-Sud (UBS).

**Summary of research activities and skills :**

Synthesis of natural molecules and analogs, synthesis of other molecules having biological activity.

Chromatographic purification, NMR and IR spectrometric identification of those natural molecules, analogs and of molecules having biological activity.

**Summary of teaching activities:**

Teaching in years 1 to 5 of University: organic chemistry (structure and reactivity) - Spectrometry (NMR, IR)

In Master of Biotechnology : chemical modification of natural molecules - structure-biological activity relationship (SAR) – NMR applied to biology.

Management of trainees at the laboratory.

**Pedagogic and administrative duties**

Since 2005 : Studies director of Master 2 Biotechnology : Biomolecules, Microorganisms, Bioprocess.

Since 2001: member of the Health, Safety and Working Condition Committee (CHSCT) of the University of South Brittany.

**Publications**

- “A simple and efficient procedure for the synthesis of an alendronate – oligonucléotide conjugate via a carbamate linker” . M. LECOUVEY**, C. DUFAU**, D. EL MANOUNI, LEROUX Y. *Nucleosides & Nucléotides,* (1999),18(9), 2109-2120.

- “Determination of glyphosate herbicide and aminomethylphosphonic acid in natural waters by liquid chromatography using pre-column fluorogenic labelling”. Part I : direct determination at the 0.1 g/L level using FMOC”. LE FUR E., COLIN R., CHARRÊTEUR C., **DUFAU C**., PERON J.-J., *Analusis*, (2000), 28, 813-818.

- “On-line high-performance liquid chromatography-mass spectrometric detection and quantification of N-acylhomoserinelactones, quorum sensing signal molecules, in the presence of biological matrices”. MORIN D., GRASLAND B., VALLEE – REHEL K., **DUFAU C**., HARAS D., *Journal of Chromatography A*, (2003), 1002, 79-92

- “Peintures antifouling de nouvelle génération”.F. FAY, I. LINOSSIER, **C. DUFAU**, N. BOURGOUGNON, K. VALLEE-REHEL, *Techniques de l’Ingénieur*, (2008), RE106LAB.

- “Monohalogenated maléimides as potential agents for the inhibition of *Pseudomonas aeruginosa* biofilm”. D. Carteau, E. SOUM-SOUTERA, F. FAY, C. **DUFAU**, S. CERANTOLA, K. VALLEE-REHEL, *Biofouling,* (2010), 26 (3), 379-385.

“Mycosporine like Amino Acids isolated from seaweeds. Seaweeds Around the World: State of Art and Perspectives”.Bedoux G**.,** Pliego-Cortés H., Hardouin K., **Dufau C.,** Boulho R., Taupin L**.,** Audo G., Freile-Pelegrín Y., Robledo D., Bourgougnon N.. Advances Botanical research, (2020) Volume 95, chapter 7. ISBN: 978-0-08-102710-3.