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EDUCATION

PhD Thesis, Organic Chemistry, Université Catholique de Louvain (Louvain-la-Neuve, Belgium).

"Synthesis and reactivity of 3-trifluoroacetylactams"

(Rhône-Poulenc Scholar, Supervisor : Pr. H.G. Viehe).

"D.E.A." (Master) in Environmental Science, Université Catholique de Louvain (Belgium).

"Licence" (diploma similar to a Honors BSc), Université Catholique de Louvain (Belgium).

"Synthesis of trifluoropropionic derivatives and of their vinyl analogs".

RESEARCH ACTIVITIES

From September 2004: **Professor in Organic Chemistry**, Rouen University, France.

March 2002: « **Habilitation à Diriger des Recherches** », Université de Reims Champagne Ardenne, France.

1996-2004: **CNRS researcher in Organic Chemistry**

UMR 6519: Réaction Sélectives et Applications, Université de Reims Champagne-Ardenne, France, Laboratory: Pr. C. Portella.

Topics: Synthesis and reactivity of bis(acylsilanes),

Mixed Fluorine and Silicon, Mixed Fluorine and Sulfur Chemistry:
synthesis of new fluorinated carbocycles and heterocycles.

1995-1996: **Postdoctoral position**, LEDSS III - Chimie recherche, Université Joseph Fourier, France, Laboratory: Dr. A. Greene.

"Total synthesis of Camptothecin".

1994-1995: **Postdoctoral position**, Institut de Chimie des Substances Naturelles, CNRS, France
Laboratory: Pr. P. Potier, Dr. J. Zhu.

"Total synthesis of new antibiotics of Vancomycine family"

CURRENT MAIN RESEARCH TOPICS

- Development of fluorinated building blocks (perfluoroketene dithioacetals, γ -ketothioesters and dithioesters) and new methodologies in Organofluorine Chemistry (Diels-Alder reactions for the synthesis of aromatic sulfides, Hetero-Diels-Alder reactions for the synthesis of dihydrothiopyrans, introduction of SF₅ substituent into nitrogen containing heterocycles, Hydrosilylation of fluorinated alkenes).

- Synthesis of fluorinated heterocycles and their applications in Medicinal Chemistry:

- *Synthesis of mixed aminoquinolines γ -lactams and their evaluation as antimalarial agents* (collaboration: Dr. M. Médebielle, Pr. S. Picot, Lyon). Results: PCT WO n° 0132, 02/01/2011, ANR-11-EMMA-04-QUINOLAC.
- *Synthesis of pyridazino[3,4-c]quinolines and -isoquinolines as ligands of 5-HT₄ serotonergic receptors for the treatment of Alzheimer disease* (collaboration: Pr. F. Fabis, Caen).
- *Synthesis de CF₃-pyridazin-3-ones as phosphodiesterase PDE₄ inhibitors for Asthma treatment* (collaboration: Dr. S. Gérard, Reims).

INTERNATINOAL COLLABORATION

- Institute of Organic Chemistry, Kiev, Ukraine: Synthesis of fluorinated «building blocks» and their applications.
Results: joint thesis (S. Mykaylychenko, 2005-2008), invited professor (Pr. Y. Shermolovich), more than 12 common publications, 2 international research agreements.
Financial support : Rouen University, French Embassy.
- Masaryk University, Brno, Czech Republic: Synthesis of three fusionned five-membered rings via criss cross cycloaddition reactions of fluorinated allenyl azines.
Results: 5 common publications, 2 Erasmus agreements.
- Hangzhou Normal University, China (Prof. L.W. Xu): Catalytic enantioselective synthesis of highly functionalized pentafluorosulfanylated pyrrolidines. 1 PhD thesis between the 2 Laboratories (Jun-Han MA, 2021-2024). Result: 1 publication, PHC Discovery of China 2017, Program Cai Yuanpei Tremplin 2023.
- Erasmus agreements (Europe) with Sweden (2016), Belgium (2012, 2016), Czech Republic (2 universities: 2013, 2015).

PhD AND POSTDOC SUPERVISION

PhD supervision: 15 thesis, 2 currently in progress (financial supports: Labex SYNORG, CRUNCH)

Posdoc supervision: 3 at Reims University, 6 at Rouen University
(Master student supervision are not included).

SCIENTIFIC PRODUCTION

3 patents, 1 chapter of book, 2 teaching books, 139 publications

EXTRACURRICULAR EXPERIENCE

- President of the Regional Board (Normandie Region) of the French Chemical Society.
- Member of « Grand Réseau de Recherche » (GRR Haute Normandie : Chimie Biologie Santé) et LABEX SYNORG, Rouen University.
- Member of Academic Council and Research Council of Rouen University.
- Sports: volley-ball and trail or ultra-trail (competition).