

PROFESSIONAL EXPERIENCES

Chargé de Recherche

Faculty of Pharmacy of
Strasbourg
Alain Wagner's team
Jan. 2017-present

- Development of new tools for the bioconjugation of tyrosine residues
- Application of multicomponent reactions to the site-specific bioconjugation of native proteins
- Late-stage functionalisation of bioactive molecules for metabolomic studies

Achievements: ranked first in the 2016 CNRS competitive examination, section 16.

PDRA

University of Oxford
E. A. Anderson group
Feb. 2014-Jan. 2017

- Studies towards the total syntheses of Rubriflorldilactones A and B
- Ligands synthesis for rhodium-catalysed [5+2] cycloisomerisation of ynamide-vinylcyclopropanes
- Synthesis of small heteroaromatic rings using palladium catalysis

Key points: stereoselective total synthesis using palladium or cobalt-catalysed cyclisation; chiral phosphoramidites synthesis and subsequent ligand screening; development of new, cheap and efficient palladium-catalysed syntheses of furans, pyrroles, thiophenes and isoxazoles.

Grants: SCG Chemicals for the ligand synthesis project; European Research Council/Marie Skłodowska-Curie Actions for the palladium-catalysed synthesis of heteroaromatics project.

PhD

Université Montpellier II
J. Martinez group
Oct. 2010-Dec. 2013

- New ring-contraction reactions: tools for the construction of organised edifices

Key points: stereoselective synthesis of spiro lactams and analyses of their folding properties, diketopiperazines to hydantoins ring contraction, Lewis acid catalysed fused to spiro rearrangement.

Grants and awards: grant from the Ministry of Higher Education and Research, French Chemical Society prize for the **best PhD thesis** in chemistry of the Languedoc-Roussillon region, second inter-regional prize.

Master's degree

Université Montpellier
J. Martinez group
Feb. 2010-Jun. 2010

- Synthesis of a new family of aminothiazoles with anti-tuberculosis aim (J. Martinez group / Feb. 2010-Jun. 2010)
- Synthesis of (\pm)-1',4'-dimethyladenosine as new nucleoside analogue (C. Périgaud group / Apr. 2009-Jun. 2009)

Key points: aza-Friedel-Crafts reaction, Hantzsch cyclisation, Baeyer-Villiger oxidation, Vorbrüggen coupling, methodological work, protecting group chemistry.

EDUCATION

Master's degree

Université Montpellier II
2008-2010

- Biomolecular Chemistry and Biomolecules Engineering

Main classes: synthesis and reactivity of amino acids, carbohydrates, lipids and nucleic acids; NMR; mass spectrometry; organometallic chemistry.

Awards: *bourse au mérite* - merit-based fellowship from the Ministry of Higher Education and Research.

Bachelor's degree

Université d'Avignon
2005-2008

- Organic Chemistry and Life Sciences

Main classes: Organic and Medicinal Chemistry, Biochemistry.

SKILLS

Organic synthesis: stereoselective synthesis and tandem reactions; total synthesis; micro-wave assisted organic synthesis; peptide synthesis; transition metal catalysis.

Analysis: analytic, chiral and preparative HPLC; MS; 1D and 2D NMR of ^1H , ^{13}C , ^{11}B , ^{19}F , ^{29}Si ; X-ray crystallography; circular dichroism; scanning electron microscopy.

Languages: French: mother tongue • English: fluent • German: intermediate.

PUBLICATIONS

- **"Total Synthesis of (+)-Rubriflordilactone A"** S. S. Goh, G. Chaubet, B. Gockel, M.-C. A. Cordonnier, H. Baars, A. W. Phillips, and E. A. Anderson, *Angew. Chem. Int. Ed.*, 2015, **54**, 12618.
- **"Microwave-Assisted Hydantoins Synthesis on Solid Support"** G. Chaubet and I. Parrot, *Comprehensive Organic Chemistry Experiments for the Laboratory Classroom*, Royal Society of Chemistry, *in press*.
- **"Enantioselective Synthesis of the Predominant AB Ring System of the Schisandra Nortriterpenoid Natural Products"** B. Gockel, S. S. Goh, E. Puttock, H. Baars, G. Chaubet, and E. A. Anderson, *Org. Lett.*, 2014, **16**, 4480.
- **"From diketopiperazines to hydantoins: an unprecedented rearrangement"** G. Chaubet, G. Cazals, A. Lebrun, J. Martinez, and I. Parrot, *Synlett*, 2014, **25**, 0574.
- **"Stereoselective synthesis of original spiro lactams displaying promising folded structures"** G. Chaubet, T. Coursindel, X. Morelli, S. Betzi, P. Roche, Y. Guari, A. Lebrun, L. Toupet, Y. Collette, I. Parrot, and J. Martinez, *Org. Biomol. Chem.* 2013, **11**, 4719. **Highlighted** on ChemInform, 2013, **44**, DOI: 10.1002/chin.201346103.
- **"A tandem aza-Friedel-Crafts reaction/Hantzsch cyclization: a simple procedure to access polysubstituted 2-amino-1,3-thiazoles"** G. Chaubet, L. T. Maillard, J. Martinez, and N. Masurier, *Tetrahedron* 2011, **67**, 4897.
- **"Synthetic Studies towards New Nucleoside Analogues: Preparation of (\pm)-1',4'-Dimethyladenosine"** G. Chaubet, D. Bourgeois, and C. Périgaud, *Eur. J. Org. Chem.* 2011, 319.