

Present & previous positions

Sep. 2017 – Present **Post-doctoral fellow** at Chaire AgroBiotechnologies Industrielles (ABI) AgroParisTech, Pomacle, France.

Project: - Levoglucosenone valorization through whole cell approach.

Aug. 2013 – Aug. 2017 **Graduate student -Teaching/Research assistant** (Prof. Stewart) U. Florida, Gainesville, USA.

Project: - Development of a new chemoenzymatic synthesis of Coenzyme A and its disulfide.

- Development of regeneration system of Acyl-Coenzyme A compounds using acyl-CoA synthetases.

- The enzymatic synthesis of high value synthons from Levoglucosenone.

Jan. 2012 – Jun. 2012 **Trainee** (Prof. F. Allais) at INRA, Versailles, France

Project: - Creation of a library of phenolic compounds and their coupling to proteins.

Apr. 2010 – Jul. 2011 **Trainee** (Prof. F. Allais) at INRA, Versailles, France

Project: - Synthetic approach of a trimer of ferulic acid.

Education

2013 - 2017 **Ph.D. in Biochemistry**, U. Florida - Gainesville, FL USA.

2010 - 2012 **M.SC. in Chemistry**, U. Pierre et Marie Curie - Paris, France.

2007 - 2010 **B.SC. in Chemistry**, U. Cergy-Pontoise - Neuville sur Oise, France.

Research topics

- Chemistry of phenolic compounds
- Syntheses of natural products
- Peptide synthesis
- Enzyme-catalyzed reactions
- Molecular Biology
- Process intensification
- Protein purification
- Structural identification

Scientific Production

Summary :

- 1 patent
- 2 publications in peer-reviewed journals
- 2 oral communications and 1 poster

Patent:

[1] **Materials and Methods for Alkene Reduction of Levoglucosenone by an Alkene Reductase** Mouterde L. M. M. Allais, F. ; Stewart J. D., Dépôt March 2017

Publications in peer-reviewed journals:

[1] **An Efficient Chemoenzymatic Synthesis of Coenzyme A and its Disulfide** Mouterde L. M. M.; Stewart, J. D.* Org. Process. Res. Dev. 2016. 20 (5) 954-959

[2] **Chemoenzymatic Total Synthesis of the Naturally Occurring (5-5)/(8-O-4) Dehydrotrimer of Ferulic Acid** Mouterde, L. M. M.; Flourat, A. L.; Cannet, M. M. M.; Ducrot, P.-H. and Allais,* F. Eur. J. Org. Chem. 2013, 1, 173-179

Oral communications:

[1] **An Efficient Chemoenzymatic Synthesis of Coenzyme A and its Disulfide** Mouterde L.; Stewart, J. 252nd ACS National meeting, Philadelphia, PA (USA), August 21-25-2016.

[2] **Design and synthesis of proteins bearing dimers/trimer of ferulic acid: creation of antibodies and immunohistochemistry in plant cells** Mouterde, Louis L. L.; Flourat, Amandine L.; Ducrot, Paul-Henri; Allais,* Florent 244th ACS National Meeting, Philadelphia, PA (USA), August 19-23-2012

Poster:

[1] **Synthèse de dimères d'acide férulique et leur couplage sur protéine, production d'anticorps correspondants pour l'immunohistochimie des parois végétales** Mouterde, Louis; Flourat, Amandine; Ducrot, Paul-Henri; Allais, Florent Journées jeunes chercheurs de la Société de Chimie Thérapeutiques, Romainville, 2-3 février 2012

Languages

French : Native language

English : Fluent