

Thomas Marié

Graduate Student

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DOB: December, 10th 1990 (France)

Research Interests

- Enzymatic catalysis
- Bioproduction by plant cell
- Extraction of bioactive compounds
- Green solvents

Present & previous positions

Sept. 2014 - Present **Graduate Student**, Chaire Agro-Biotechnologies Industrielles (ABI) and URCA, Reims, France.

PhD thesis *Extraction of polyphenol (Stilbenoid) from culture of grapevine cell. Enzymatic production of glycosylated derivative of stilbenoid (resveratrol) : surfactant properties*

- Development and optimization of the enzymatic production of glycosides in green solvents
- Extraction of stilbenoid from biomass
- Development of a global process to extract stilbenoid and produce glycosides

Supervisors Prof. Florent Allais (Chaire ABI) and Prof. Jean-Hugues Renault (URCA)

Feb. 2014 - July 2014 **Engineer Placement**, AgroParistech-INRA, Grignon, France.

Project *Evaluation of inhibition mechanisms caused by 3-hydroxypropionaldehyde and 3-hydroxypropionic acid on Lactobacillus reuteri by the combination of cellular and molecular methods*

- Study the bioproduction of 3-hydroxypropionic acid by analytical methods (FTIR and flow cytometry)
- Fermentation and bioproduction in reactor

Supervisors Dr. Saulou-Bérion

June 2013 - Sept. 2013 **Engineer Placement**, LCC, Toulouse, France.

Project *Study the interaction of DNA G-quadruplex and porphyrins for evaluation of drugs against cancer*

- FRET analysis for study the interaction between DNA and porphyrins
- Dynamic Combinatorial Chemistry for produce new porphyrins : controlled by HPLC and LC-MS

Supervisors Dr. Pratviel

July 2012 - **Technician Placement**, University of Bath, Bath, UK.
Aug. 2012

Project *Study the interaction of porphyrin and fullerene by fluorescence spectroscopy and UV/Vis spectroscopy*

- Characterization of the complex by the combination of spectroscopy

Supervisors Dr. Pascu

July 2011 - **Technician Placement**, SYDED du Lot, Cahors, France.
Sept. 2011

Project *Controlled the quality of water in rivers by a quick bacteriological test and informed the holiday-maker by diffusion of the information by a website*

- Study of samples taken on river and analysis by quick bacteriological test
- Determine the quality of the river's water
- Monitoring of physico-chemical parameters of river

Education

2014 - **Graduate student in Chemistry and Process**, (3 years programme), Chaire ABI and Present U. de Reims -Champagne-Ardennes, Reims, France.

2013-2014 **Student of Master's degree in Biotechnology**, UTC, Compiègne, France.

2009-2014 **Student of Engineer School of Chemistry**, ESCOM, Compiègne, France.

Scientific production

Summary:

- 1 publications in preparation
- 3 oral communications

Publications in preparation

1. T. Marié, G. Willig, A. Teixeira, J-H. Renault, F. Allais, *Increasing the bioavailability of resveratrol: efficient and eco-friendly production of resveratrol α -glycosides.*

Oral communications

2015 **Increasing the bioavailability of resveratrol: efficient and eco-friendly production of resveratrol α -glycosides**, *Resveratrol Regional Meeting 2015*, 2nd-3rd November, Dijon (France).

T. Marié, G. Willig, A. Teixeira, J-H. Renault, F. Allais

2016 **Production de dérivés alpha-glycosylés de stilbénoides : augmentation de la solubilité et de la biodisponibilité du resvératrol**, *SFR Condorcet - Journée Jeunes Chercheurs Condorcet*, 19th- 20th January, Reims (France).

T. Marié, G. Willig, A. Teixeira, J-H. Renault, F. Allais

2016 **Enzymatic modification of resveratrol: green strategies for glycosylation**, *CABiomass 2016*, 9th- 11th Mars, Compiègne (France).

T. Marié, G. Willig, A. Teixeira, J-H. Renault, F. Allais