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Aurelien Péru

Engineer Assistant in Organic chemistry DOB: August, 9^{th} 1985 (Arras, 62 - France)

Research Topics

- **Lignocellulosic biomass valorization** using **white biotechnologies**, **green chemistry** and **Chemical/process engineering**: bio-based monomers/oligomers/polymers, synthons, ingredients, surfactants, flavor and fragrances, bioactive (macro)molecules (e.g., antioxidant, antimicrobial) ...
- Total synthesis of biologically relevant phenolics

Present & previous positions

Aug. 2013 – Present **Engineer assistant - organic chemistry**, *Chaire Agro-Biotechnologies Industrielles (ABI) - AgroParisTech*, Reims, France.

Sept. 2008 – Aug. 2013 **Synthetic Chemist**, *AstraZeneca R&D Oncology*, Reims, France.

March 2008 – Sept 2008 **M2 internship (M.Sc.)**, *AstraZeneca R&D Oncology*, Reims, France.

March 2007 – Sept 2007 **M1 internship (M.Sc.)**, *Sanofi-Aventis R&D Central Nervous System*, Bagneux, France.

Education

2004 – 2008 **M.Sc.*in Chemistry M2 (with Honors)***, *U. of Nantes*, France.

2003 – 2004 **Undergraduate courses to prepare nationwide competitive exams in sciences (physic and chemistry)**, Arras, France.

2003 **Baccalauréat with honors**, French secondary school diploma/high-school degree, Arras, France.

Scientific production

Patents

1. Chemo-enzymatic transformation of levoglucosenone into valuable chemical intermediates, *Allais,* F. et al.*, submitted in 2^{nd} May 2014.

Publications in peer-reviewed journals

[1] A. L. Flourat, A. A. M. Peru, A. R. S. Teixeira, F. Brunissen, and F. Allais. Chemo-enzymatic synthesis of key intermediates (s)-γ-hydroxymethyl-α,β-butenolide and (s)-γ-

hydroxymethyl-γ-butyrolactone via lipase-mediated baeyer-villiger oxidation of levoglucosenone. *Green Chem.*, 17:404–412, 2015.

[2] Rémy Morgentin, Bernard Barlaam, Kevin Foote, Lorraine Hassall, Janet Hawkins, Clifford D. Jones, Antoine Le Griffon, Aurelien Peru, and Patrick Plé. Two-directional approach for the rapid synthesis of 2,4-bis-aminoaryl pyridine derivatives. *Synthetic Communications*, 42(1):8–24, 2012.

[3] Lach F. and Peru A. Unprecedented syntheses of 1,5-difluoropentan-3-amine and 4-fluoro-2-(2-fluoroethyl)butan-1-amine. *Tetrahedron Lett*, 53(6):3, February 2012.