

Tiphaine Clément

CEBB, Chemin des Sohettes, Route de Bazancourt
51110 Pomacle, France

☎ +33 (0)3 26 36 43 69

✉ tiphaine.clement@agroparistech.fr

Research Engineer, Ph.D.
Head of Microbiology Department

DOB: August, 7th 1980 (France)

Research Topics

- Lignocellulosic biomass valorization using fermentation processes
- Optimization of fermentation processes
- Microbial physiology

Present & previous positions

- Jan. 2013 - Present **Research Engineer at Chaire Agro-Biotechnologies Industrielles (ABI)**, *AgroParis-Tech*, Reims, France.
- June 2009 - Sep. 2012 **phD student/ Teaching assistant**, (*with Dr Sablayrolles and Dr Camarasa*), SPO-INRA/Supagro, Montpellier, France.
- Multidisciplinary european project CAFE (Computer Aided Food Processes for Control Engineering)- FP7 KBBE
 - Use of a multistage continuous fermentation system for the study of the nitrogen metabolism of *Saccharomyces cerevisiae* in enological conditions
- March 2008 - April 2009 **Studies Engineer**, (*with Dr. Salmon*), SPO - INRA, Montpellier, France.
- Multidisciplinary project led by the *French Institute of Cider Industry (IFPC)*
 - Study of feasibility for the cultivation and drying of *Hanseniaspora valbiensis*
- Sept. 2007 - Jan. 2008 **Quality assistant**, *Vignerons du Pays d'Ensérune*, Carcassone, France.
- Sept. 2006 - April 2007 **Project Engineer**, *Creation of a training center for pastry bakers*, CFSE, Niamey, Niger.
- May 2005 - Sept. 2006 **Internship (M.Sc.)**, *CTCPA, Technical Center for Agricultural Products Conservation*, Avignon, France.

Education

- 2009-2012 **Ph.D.**, Supagro, Montpellier, France.
- Jan.2011 **Advanced Courses in Fermentation and Microbial Physiology**, U.Delft, Delft, Netherlands.
- 2003-2006 **M.Sc. in Food Process Engineering**, Polytech'Montpellier, Montpellier, France.
- 2000-2003 **B.Sc. in Biochemistry**, U. Claude Bernard, Lyon, France.

Undergraduate and (post-)graduate students supervision (B.Sc. and M.Sc. internships, graduate students, post-doctoral fellows)

- 1 Ph.D. student in Microbiology
- 1 M.Sc. student in Microbiology
- 1 B.Sc. student in Pharmacology
- 2 B.Sc. students in Analytical Biology

Scientific production

Publications in peer-reviewed journals

- [1] T. Clement, M. Perez, J.R. Mouret, J.M. Sablayrolles, and C. Camarasa. Use of a continuous multistage bioreactor to mimic winemaking fermentation. *International Journal of Food Microbiology*, 150(1):42 – 49, 2011.
- [2] T. Clement, M. Perez, J.R. Mouret, I. Sanchez, J.M. Sablayrolles, and C. Camarasa. Metabolic responses of *Saccharomyces cerevisiae* to valine and ammonium pulses during four-stage continuous wine fermentations. *Appl. Environ. Microbiol.*, 79:2749–2758, 2013.

Publications in preparation and to be submitted

1. Reano, A F.; Chérubin, J.; Wang, Q.; Clément, T.; Domenek, S. and Allais, F., *Synthetic design and antimicrobial properties of bio-based macrobisphenols derived from ferulic acid*.

Posters

- 2015 **Growth medium development based on wheat and sugar beetroot extraction by-products for the cultivation of *Lactobacillus reuteri*. Optimization for the bioconversion of glycerol**, *International Symposium on Green Chemistry*, La Rochelle (France). Clement, T., Teixeira, A. & Couvreur, J.
- 2012 **Use of a multi-stage continuous bioreactor for the study of microbial physiology in enological conditions**, *10e rencontre Levure Modèles & Outils*, Toulouse (France). Clement, T., Perez, M., Mouret, J. R., Sablayrolles, J.M., & Camarasa, C.

Other contributions

- 2014 **Chemo-enzymatic synthesis and properties evaluation of new bio-based macrobisphenols**, *2nd International Conference on Bioinspired and Biobased Chemistry & Materials*, 15th-17th October, Nice (France).
Reano, A. F.; Chérubin, J.; Wang, Q.; Pion, F.; Clément, T.; Maillard, M.-N.; Ducrot, P.-H.; Domenek, S.; Allais*, F.
- 2014 **Chemo-enzymatic synthesis and properties evaluation of new bio-based macrobisphenols derived from ferulic acid**, *248th ACS National Meeting*, 10th-14th August, San Francisco (USA).
Reano, A. F.; Chérubin, J.; Wang, Q.; Pion, F.; Clément, T.; Maillard, M.-N.; Ducrot, P.-H.; Domenek, S.; Allais*, F.
- 2014 **Synthesis, characterization, biological properties and polymerizations of new bio-based macrobisphenols derived from ferulic acid**, *XVth Florida Heterocyclic and Synthetic Chemistry Symposium*, 2nd - 5th March, Gainesville (USA).
Pion, F.; Reano, A. F.; Wang, Q.; Clément, T.; Maillard, M.-N.; Domenek, S.; Ducrot, S.; Allais, F.



Languages

French **Native Language**
English **Fluent**
Spanish **Intermediate**
German **Beginner**