

Examina and degrees:

2003: Habilitation, La Rochelle University (LRU), France

1990: PhD in Biochemistry, Department of Biochemical and Food Industry Engineering, INSA Toulouse, France, Title: Influence of microenvironnement on kinetics and thermal stability of *Aspergillus oryzae* alpha-amylase, supervisor prof. Gilbert DURAND

1986: Engineer in Agronomy ENSA Montpellier (France)

Professional career:

2009-, Professor in Biochemistry, Department of Biotechnology, UMR CNRS 7266 LIENSs (Littoral, Environnement et Sociétés) LRU, France

2000-2008, Assistant professor, Department of Biotechnology, LRU, France

1990-1999, Assistant professor, Department of Biochemical and Food Industry Engineering, INSA Toulouse, France

Other commissions:

2019- Scientific expert for plan Ecophyto II (French ministry of ecological transition)

2017-Member of RFMF (French Group for Metabolomics and Fluxomics)

2015-, Vice-director of the faculty of sciences and technology, LRU, head of international relations

2014-2020, Vice –director of the laboratory UMR CNRS 7266 LIENSs, La Rochelle, France

2013-2014, Scientific co-director of the laboratory UMR CNRS 7266 LIENSs, La Rochelle, France

2013-2015, Head of international relations for the faculty of sciences and technology, LRU

2011-2013, Research team responsible “Molecular approaches: environment-health” of UMR CNRS 7266

2008-2011, Research team responsible “Environmental biotechnology” of UMR CNRS 7266

2009-2013, International relations responsible for the Department of Biotechnology, LRU

2004-2009, Responsible for the Master programme in Biochemistry, LRU

2001-2004, Responsible for the Master programme in Project Management, LRU

Project leadership:

2015-2018 INCREASE (International Consortium on Eco-conception and renewable resources) (45 K€) funding of the operating costs of a PhD student working about the development of normalized tools and guidelines for the evaluation of chronic chemical contamination of the coastal environment

2008-2013 ANR project «Expenantio» (632 K€), programme «Chimie durable- Industries-Innovation»

2011-2013 FEDER project «High resolution platform for biomolecules» (300 K€)

2011-2013 PRES Limousin Poitou-Charentes project « REDOXE » (30 K€)

Supervision: 3 post-doc, 8 PhD students, 13 Master students, 9 students engineers

Research interests:

Understanding and analysis of the impact of chronic chemical pollution on living organisms, especially from the marine environment, by using metabolomics tools.

Understanding formation of microbial biofilms, study of surface properties of microorganisms and solids and elucidation of the mechanisms of early adhesion.

Scientific production and four most important publications:

49 publications in international papers, 49 poster communications (33 international), 26 oral communications (15 international, 3 invited), 2 book chapters

1 international patent (first author), exploited since 1989, groupe Solabia BioEurope.

1. Ory P, Bonnet A, Mondeguer F, Breitwieser M, Graber M (2019) Metabolomics Based on UHPLC-QToF- and APGC-ToF-MS reveals metabolic pathways reprogramming in response to tidal cycles in the sub-littoral species *Mymachlamys varia* exposed to aerial emergence, Comparative Biochemistry and Physiology - Part D: Genomics and Proteomics, 29: 74-85.
2. Breitwieser M, Vigneau E, Viricel A, Becquet V, Lacroix C, Erb M, Huet V, Churlaud C, Le Floch S, Guillot B, Graber M, Thomas H, 2018. What is the relationship between the bioaccumulation of chemical contaminants in the variegated scallop *Mimachlamys varia* and its health status? A study carried out on the French Atlantic coast using the Path ComDim model. Science of the Total Environment 640–641: 662–670.
3. Breitwieser M, Viricel-Pante A, Graber M, Murillo L, Becquet V, Churlaud C, Fruitier-Arnaudin I, Huet V, Lacroix C, Pante E, Le Floch S, Thomas H, 2016. Short-term and long-term biological effects of chronic chemical contamination on natural populations of a marine bivalve. PlosOne, 11,e0150184. DOI: 0.1371/journal.pone.0150184.
4. Klein GL, Pierre G, Bellon-Fontaine MN, Graber M, 2015. Inverse Gas Chromatography with Film Cell unit: an attractive alternative method to characterize surface properties of thin solid films. J Chromatographic Science 53: 1233-1238.