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CAREER HISTORY

1992-1996: Researcher in different companies (Sanofi, Lur Berri, Imagene).
1996-1998: **University Claude Bernard Lyon 1**, Assistant Professor, Faculty of Pharmacy
1998-2005: **University René Descartes Paris 5**, Assistant Professor, Faculty of Pharmacy
2005 - : **University of Bordeaux**, Professor, Faculty of Pharmacy

EDUCATION AND QUALIFICATIONS

1992 : Ph.D in Genetics and Molecular Biology, University of Bordeaux
1998 : Graduated of the Medical Mycology training course, Pasteur Institute, Paris
2004 : Research Supervisor Qualification (HDR), University René Descartes Paris 5
2005 : Eligible to the functions of Professor in the Faculties of Pharmacy (CNU 87)

RESEARCH TOPICS

Molecular characterization of the membrane transport of antifungals (fluoropyrimidines, azoles) in *Candida* yeasts :

- Determination of the kinetic parameters of the membrane transport using radiolabelled fluoropyrimidine and azole antifungals
 - Molecular characterization of transporters of the NCS1 family and of their interactions with xenobiotics
- Finding new biochemical target in the fungal metabolism during *Candida*-phagocyte interaction :
- Development of an in vitro cellular model for the multiparametric characterization of the interactions between yeasts and phagocytes.
 - Demonstration of the existence of new mitochondrial and peroxisomal pathways of fatty acid catabolism in the yeast *Candida lusitanae*, and of their possible role in the virulence of the yeast during macrophage phagocytosis

Key words : *Candida*, antifungals, morphogenesis, lipid and steroid metabolism, virulence

TRAINING AND TEACHING RESPONSABILITIES

- Responsibility of the master degree Microbiology-Immunology, research training program
- Creation and responsibility of the Master degree Microbiology-Immunology, professional training program (opening september 2014).
- Head of the Master Biology-Health of the University of Bordeaux
- Transversal teaching in Life Science, Pharmacy and Medicine : parasitology, mycology, molecular biology, genetics of the pathogenic microorganisms and of host-pathogen interaction
- Courses and practical work intended to the continuing education of professional biologists

PUBLICATIONS IN THE FIELD (FROM 2010)

Navarro-Arias MJ, et al (2016). *Front Microbiol* 7:1951, PMID: 2799458
Couzigou et al (2014). *Med Mycol Case Rep* 5, 12–15, PMID: 24936404
Gabriel et al (2014). *Antimicrob Agents Chemother* 58(8) : 4476-4485, PMID: 24867971
Sabra et al (2014). *Infect Immun* 82(1) : 413-22 PMID: 24191303
Gabriel et al (2013). *Med Mycol Case Rep* 2 : 44-7 PMID: 24432214

Houard et al (2013). J Antibiot, 66(10) : 617-20 PMID: 23756685
Dementhon et al (2012). PLoS ONE, 7(3) : e32621 PMID: 22479332
Gabriel et al (2012). Medical Mycology 50: 310-4 PMID: 21671831.
El-Kirat-Chatel et al (2011). Yeast 28 : 321-330. PMID: 21456057
Millerioux et al (2011a). FEMS Yeast Res 11 : 457-63. PMID 21489135
Millerioux et al (2011b). J Microbiol Methods 84 : 355-358. PMID 21182877
Ness et al (2010). Fungal Genet Biol 47 : 1001-1011. PMID: 20637818
Vandeputte et al (2010). Mycopathologia 171 : 11-21. PMID: 20617462
Chapeland-Leclerc et al (2010). Antimicrob Agents Chemother 54 : 1360-1362. PMID: 20038613
Gabriel et al (2010). Medical Mycology 49 : 306-310. PMID: 20950223

- *Patent*

Gabriel et al (2011). European Patent EP11159920.5, Université de Bordeaux, CNRS, CHU

Other Academic/Administrative Responsibilities - Consulting

- Member of the council of the Research Department Health and Life Science of Bordeaux
- Member of the administrative council of the faculty of Pharmacy (2009-2014)
- Member of the committee Research and perspective of the faculty of Pharmacy
- Organization and responsibility of recruitment committees at the University of Bordeaux

Academic reputation

- Invited conferences in **national medical and scientific society** (SFM, SFMM, etc ...)
- Full organisation of the first colloque of the Microbiology-Immunology axis of the Transbiomed SFR, Bombannes, 15-16 october 2012
- Full organization of the SFP and SFMM (French society of Parasitology, and of Medical Mycology), Bordeaux May 2015

Transfer of technology

- **FUI (Fonds unique interministériel)**. Multicentric partnership: Vitamfero, CEVA Santé-animale, Direction Générale des Entreprises (DGE). Elaboration of a new range of vaccines managed against the veterinary apicomplexa (2009-2012).
- **Edelris Keymistry (Lyon, Rhône-Alpes)**. Exclusive partnership: Study of the antifungal activity of a new chemical class of molecules (2010-2012).
- **Safisis (Soustons, Lesaffre Group)**: Exclusive partnership for the development of a claim of the patent EP11159920.5 (2012-2013).