

Alain DUFOUR, Prof. Dr.

Email: alain.dufour@univ-ubs.fr

CNU section: 65

ACADEMIC QUALIFICATIONS:

1988 - 1991: PhD IN BIOLOGICAL SCIENCES: Laboratory of Molecular Genetics, University of Rennes I, France.

Research work: Isolation of a gene encoding a bacteriocin produced by a *Lactococcus lactis* strain.

2001: HABILITATION À DIRIGER DES RECHERCHES (HDR: Approval as a Research Supervisor) in Biological Sciences.

Title of the manuscript: Study of a lantibiotic and of bacterial signal transduction systems.

POST-DOCTORAL EXPERIENCES:

1993 - 1995: Department of Microbiology, The University of Texas Health Science Center at San Antonio, Texas, USA.

Topic: Activation mechanisms of transcription factor σ^B in response to general stress in *Bacillus subtilis*.

1995 - 1996: Department of Pathology, University of Cambridge, England.

Topic: Cell differentiation of *Proteus mirabilis*.

UNIVERSITY CAREER:

Since 1996: Laboratory of Marine Biotechnology and Chemistry (LBCM), University of South Brittany (UBS), Lorient, France.

1996 - 2006: Maître de Conférences (Assistant Professor)

Since 2006: Professor

2006 - 2011: Assistant director of the Laboratory of Marine Biotechnology and Chemistry

2011 - 2016: Director of the Laboratory of Marine Biotechnology and Chemistry

2014: Organizer of the 4th International Symposium on Antimicrobial Peptides (AMP 2014),
Lorient, 4-6/06/2014

Member of the **Editorial Boards** of **Journal of Bacteriology** (since 2010) and **Applied and Environmental Microbiology** (since 2014)

Research topics: bacterial biofilm, antibiofilm molecules, bacterial adaptation to environment.

Teaching activities: microbiology and molecular biology in Licence (2nd and 3rd year) and Master.

Current pedagogic and administrative duties: responsible for the “Biotechnology” Master project.

SELECTED PUBLICATIONS

- 1 A. Bazire, and **A. Dufour**. 2014. The *Pseudomonas aeruginosa* *rhlG* and *rhlAB* genes are inversely regulated and RhlG is not required for rhamnolipid synthesis. ***BMC Microbiology* 14**, 160. (IF 3.10)
- 2 Bouffartigues E., J.A. Moscoso, R. Duchesne, T. Rosay, L. Fito-Boncompagni, G. Gicquel, O. Maillot, M. Bénard, A. Bazire, G. Brenner-Weiss, O. Lesouhaitier, P. Lerouge, **A. Dufour**, N. Orange, M.G.J. Feuilloley, J. Overhage, A. Filloux, and S. Chevalier. 2015. The absence of the *Pseudomonas aeruginosa* OprF protein leads to increased biofilm formation through variation in c-di-GMP level. ***Frontiers in Microbiology* 6**, 630. (IF 4.0)
- 3 Rosay T., A. Bazire, S. Diaz, T. Clamens, A.S. Blier, L. Mijouin, B. Hoffmann, J.A. Sergent, E. Bouffartigues, W. Boireau, J. Vieillard, C. Hulen, **A. Dufour**, N.J. Harmer, M.G.J. Feuilloley M.G.J., O. Lesouhaitier. 2015. *Pseudomonas aeruginosa* expresses a functional human natriuretic peptide receptor ortholog: involvement in biofilm formation. ***mBio* 6**, e01033-15. (IF 6.786)
- 4 Rodrigues S., C. Paillard, G. Le Pennec, **A. Dufour**, A. Bazire. 2015. *Vibrio tapetis*, the causative agent of Brown Ring Disease, forms biofilms with spherical components. ***Frontiers in Microbiology* 6**, 1384. (IF 4.0)
- 5 Doghri I., J. Lavaud, **A. Dufour**, A. Bazire, I. Lanneluc, S. Sablé. 2017. Cell-bound exopolysaccharides from an axenic culture of the intertidal mudflat *Navicula phyllepta* diatom affect biofilm formation by benthic bacteria. ***Journal of Applied Phycology* 29**, 165-177. (IF 2.616)
- 6 Clamens T., T. Rosay, A. Crépin, T. Grandjean, T. Kentache, J. Hardouin, P. Bortolotti, A. Neidig, M. Mooij, M. Hillion, J. Vieillard, P. Cosette, J. Overhage, F. O’Gara, E. Bouffartigues, **A. Dufour**, S. Chevalier, B. Guery, P. Cornelis, M.G.J. Feuilloley, O. Lesouhaitier. 2017. The aliphatic amidase AmiE is involved in regulation of *Pseudomonas aeruginosa* virulence. ***Scientific Reports* 7**, 41178. (IF 5.228)
- 7 Chevalier S., E. Bouffartigues, J. Bodilis, O. Maillot, O. Lesouhaitier, M.G.J. Feuilloley, N. Orange, **A. Dufour**, P. Cornelis. 2017. Structure, function and regulation of *Pseudomonas aeruginosa* porins. ***FEMS Microbiology Reviews* 41**, 698-722. (IF 12.198)