

Alain DUFOUR

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CNU section: 65

ACADEMIC QUALIFICATION:

1991: PhD in Biological Sciences: Université de Rennes I (supervisor: Pr Le Pennec, Laboratoire de Génétique Moléculaire, Université de Rennes I, France). 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. 03/23/2001, Université de Bretagne-Sud. Study of a lantibiotic and of bacterial signal transduction systems.

POST-DOCTORAL EXPERIENCES:

1993–1995: The University of Texas Health Science Center at San Antonio, Texas, USA (Pr. W. G. Haldenwang). Activation mechanisms of transcription factor σ^B in response to general stress in *Bacillus subtilis*.

1995–1996: University of Cambridge, UK (Pr. C. Hughes). Cell differentiation of *Proteus mirabilis*.

UNIVERSITY CAREER:

Since 1996: researcher and teacher at the Université de Bretagne-Sud, France.

1996–2006: Maître de Conférences (Assistant Professor)

Since 2006: Professeur des Universités (Professor)

2006-2011: Assistant Director of the Laboratoire de Biotechnologie et Chimie Marines (LBCM)

2011-2016: Director of the LBCM

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

Co-supervisor of 11 PhD theses

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, bacterial pathogenesis, host-pathogen interactions.

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

Main current pedagogic and administrative duty: responsible for the “Biotechnology” Master.

PUBLICATIONS: 56 articles published in international scientific journals (h-index: 31), 19 invited conferences, 36 and 67 communications (oral presentations or posters) in national and international congresses, respectively.

Selected publications:

- 1 **A. Dufour** and W.G. Haldenwang. 1994. Interactions between a *Bacillus subtilis* anti- σ factor (RsbW) and its antagonist (RsbV). *Journal of Bacteriology* **176**, 1813-1820.
- 2 **A. Dufour**, R.B. Furness and C. Hughes. 1998. Novel genes that upregulate the *Proteus* *flhDC* flagella master operon controlling flagella biosynthesis and swarming. *Molecular Microbiology* **29**, 741-751.
- 3 S.M. Madsen, T. Hindré, J.-P. Le Pennec, H. Israelsen and **A. Dufour**. 2005. Two acid inducible promoters from *Lactococcus lactis* require the cis-acting ACiD box and the transcription regulator RcfB. *Molecular Microbiology* **56**, 735-746.



Couverture de Molecular Microbiology 56, no 3: Madsen S.M., T. Hindré, J.-P. Le Pennec, H. Israelsen and **A. Dufour**. 2005. Acid-induced promoter and predicted 3D structure of the transcription regulator RcfB from *Lactococcus lactis*.

- 4 **A. Dufour**, T. Hindré, D. Haras and J.-P. Le Pennec. 2007. The biology of lantibiotics from the lactacin 481 group is coming of age. *FEMS Microbiology Reviews* **31**, 134-167.
- 5 A. Bazire, K. Shioya, E. Soum-Soutéra, E. Bouffartigues, C. Ryder, L. Guentas-Dombrowsky, G. Hémerly, I. Linossier, S. Chevalier, D.J. Wozniak, O. Lesouhaitier and **A. Dufour**. 2010. The sigma factor AlgU plays a key role in formation of robust biofilms by nonmucoid *Pseudomonas aeruginosa*. *Journal of Bacteriology* **192**, 3001-3010.
- 6 Chevalier S., E. Bouffartigues, J. Bodilis, O. Maillot, O. Lesouhaitier, M.G.J. Feuilloley, N. Orange, **A. Dufour** and P. Cornelis. 2017. Structure, function and regulation of *Pseudomonas aeruginosa* porins. *FEMS Microbiology Reviews* **41**, 698-722.
- 7 S. Chevalier, E. Bouffartigues, A. Bazire, A. Tahrioui, R. Duchesne, D. Tortuel, O. Maillot, T. Clamens, N. Orange, M.G.J. Feuilloley, O. Lesouhaitier, **A. Dufour** and P. Cornelis. 2019. Extracytoplasmic function sigma factors in *Pseudomonas aeruginosa*. *Biochimica et Biophysica Acta (BBA) - Gene Regulatory Mechanisms* **1862**, 706-721.
- 8 A. Jouault, A. Gobet, M. Simon, E. Portier, M. Perennou, E. Corre, F. Gaillard, D. Vallenet, G. Michel, Y. Fleury, A. Bazire and **A. Dufour**. 2020. Alterocin, an antibiofilm protein secreted by *Pseudoalteromonas* sp. strain 3J6. *Applied and Environmental Microbiology* **86**, e00893-20.