

Anne WALBURGER

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French

Née le 11/10/1974

EXPERIENCE PROFESSIONNELLE

WORKING EXPERIENCE

From april 2005: Post-doctoral position in Jean-Pierre Gorvel's laboratory, Centre d'Immunologie de Marseille et de Luminy, University of Aix-Marseille II, France

2002-2004: Post-doctoral position in Jean Pieters' laboratory, departement of Biochemistry, Biozentrum, University of Basel, Switzerland.

EDUCATION

University of Sciences Aix-Marseille II, Marseille, France:

1998-2002: Ph D in Cellular Biology, Structural Biology and Microbiology directed by Dr. C. Lazdunski (Laboratory of Engeenering of Macromolecular systems, CNRS, Marseille).

Title: "Macromolecular structure of the Tol/Pal complex of *Escherichia coli* and mechanisms of colicin A import"

1997-1998 : Doctoral level study in Cellular Biology, Structural Biology and Microbiology, 1998

Title: "Biological containement of a bacteria that degrades phenol"

1996-1997 : Master's degree in Cellular Biology, option Immunology, 1996.

GRANTS

2002-2004 FEBS post-doctoral Fellowship

1998-2002 Teaching assistant position from the University of Sciences Aix-Marseille II

1998-2001 Doctoral Fellowship from the French Minister of Research

TEACHING EXPERIENCE

1998-2002 Teaching assistant in a Cellular Biology practical course for second and third year University students in University of Sciences Aix-Marseille II, Marseille, France.

MAJOR FIELDS OF RESEARCH EXPERIENCE

Molecular Biology

Biochemistry

Protein/protein interaction

Cellular Biology

Microbiology (*Escherichia coli*, *Mycobacterium smegmatis*, *Mycobacterium bovis* BCG)

COMMUNICATIONS AT SCIENTIFIC MEETINGS

July 2000 Gordon Research Conference: "Bacterial cell surfaces" Colby-Sawyer, Massachusetts, USA.

Poster: "Complete network of interactions between the Tol/Pal proteins and between the Tol/Pal proteins and colicin A using the two-hybrid system"

February 2001 Vième Journée de Sécrétion de l'Institut Pasteur, Paris, France

Oral communication: " Réseau complet d'interactions parmi les protéines Tol/Pal et entre les protéines Tol/Pal et la colicine A"

June 2001 Molecular Dynamics of Membrane Biogenesis, Cargese, Corsica, France

Oral communication: The Tol/Pal system function requires an interaction between the C-terminal domain of TolA and the N-terminal domain of TolB.

Octobre 2003 Meeting of the Swiss National Science Foundation for the antibiotic resistance program, Lausanne, Suisse

Oral communication: "Identification of a mycobacterial gene involved in intracellular survival of *Mycobacterium bovis* BCG in macrophages"

PUBLICATIONS

Walburger A*, Koul A*, Ferrari G*, Nguyen L*, Prescianotto-Baschong C, Huygen K, Klebl B, Thompson C, Bacher G, Pieters J. Protein Kinase G from Pathogenic Mycobacteria Promotes Survival Within Macrophages. *Science* 2004 May 20

*: These authors equally contributed to the work.

Walburger A., Lazdunski C., Corda Y. The Tol/Pal system function requires an interaction between the C-terminal domain of TolA and the N-terminal domain of TolB. *Mol Microbiol.* 2002 May;44(3):695-708.

-Collaborations :

Abergel C., **Walburger A.**, Chenivresse S., Lazdunski C. Crystallization and preliminary crystallographic study of the peptidoglycan-associated lipoprotein from *Escherichia coli*. *Acta Crystallogr D Biol Crystallogr.* 2001 Feb;57(Pt 2):317-9.

Opi S., Peloponese J.M., Esquieu D., Campbell G., de Mareuil J., **Walburger A.**, Solomiac M., Gregoire G., Bouveret E., Yirrell D. L., Loret E.P. Tat HIV-1 primary and tertiary structures critical to immune response against non-homologous variants. *J Biol Chem.* 2002 Sep 27;277(39):35915-9.

-Reviews:

(3) Bouveret E., Journet L., **Walburger A.**, Cascales E., Bénédicti H., Lloubès R. Analysis of the *Escherichia coli* Tol-Pal and TonB systems by periplasmic production of Tol, TonB, colicin, or phage capsid soluble domains. *Biochimie.* 2002 May-Jun;84(5-6):413-21.

(4) Lloubès R., Cascales E., **Walburger A.**, Bouveret E., Lazdunski C., Bernadac A., Journet L. The Tol-Pal proteins of the *Escherichia coli* cell envelope: an energized system required for outer membrane integrity? *Res Microbiol.* 2001 Jul-Aug;152(6):523-9.