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EDUCATION

2001-2005 : **Molecular & Cellular Biology PhD** (defense date: Nov. 3rd 2005) :

Louis Pasteur University, Strasbourg, France. Research training in Dr. Bohdan WASYLYK's laboratory (**IGBMC**, Illkirch).

2000-2001 : **Master's Degree ; Molecular & Cellular Biology :**

Louis Pasteur University, Strasbourg, France (ranked 1st out of 47 candidates in a competitive examination for the awarding of PhD grants). Research training in Dr. Bohdan WASYLYK's laboratory (**IGBMC**, Illkirch).

1996-2000 : **Bachelor's Degree and Associate's Degree ; Cellular Biology and Biochemistry :**

Sciences and Techniques Faculty of Besançon, France ("mention bien" obtained each year = pass with 70 to 80%).

PUBLICATIONS

Research articles

- (1) Buchwalter G, Gross C, Wasylyk B. (2005) Net is implicated in cell migration through Plasminogen Activator Inhibitor 1 regulation. **Mol Cell Biol.** 25(24): 10853-62
- (2) Van Riggelen J, Buchwalter G, Soto U, De-Castro Arce J, Zur Hausen H, Wasylyk B, Rösl F. (2005) Loss of Net leads via MAPK-independent SRE-activity to constitutive *c-fos* expression in cervical carcinoma cell lines. **JBC.** 280(5):3286–3294.
↳ **Collaboration** with DKFZ (German Cancer Research Center, Heidelberg ; Dr. F. RÖSL's laboratory)
- (3) Fiucci G, Beaucourt S, Duflaut D, Lespagnol A, Stumptner-Cuvelette P, Geant A, Buchwalter G, Tuynder M, Susini L, Lassalle JM, Wasylyk C, Wasylyk B, Oren M, Amson R, Telerman A. (2004) Siah-1b is a direct transcriptional target of p53: Identification of the functional p53 responsive element in the siah-1b promoter. **Proc Natl Acad Sci U S A.** 101(10):3510-5.
↳ **Collaboration** with Molecular Engines (Paris, France ; private biotech company founded by Drs A.TELERMAN and R.AMSON)
- (4) Nakade K, Zheng H, Ganguli G, Buchwalter G, Gross C, Wasylyk B.(2004) The tumor suppressor p53 inhibits Net, an effector of Ras/extracellular signal-regulated kinase signaling. **Mol Cell Biol.** 24(3):1132-42.

- (5) Ayadi A, Zheng H, Sobieszczuk P, Buchwalter G, Moerman P, Alitalo K, Wasylyk B. (2001) Net-targeted mutant mice develop a vascular phenotype and up-regulate *egr-1*. **EMBO J.** 20(18):5139-52.
- (6) Gross C, Buchwalter G, Cler E, Zheng H, Wasylyk B. The ternary complex factor Net is regulated by hypoxia and is involved in hypoxic response *in vivo*. **In preparation.**
- (7) Hacke K, Buchwalter G, Rösl F, Siehler S, Wasylyk B, Wiesmüller L, Finzer P. The role of p53 for the induction of monocyte-chemoattractant protein-1 by TNF-alpha. **In preparation.**

Refereed review

- (8) Buchwalter G, Gross C, Wasylyk B.(2004) Ets ternary complex transcription factors. **Gene.** 324:1-14

RESEARCH TRAINING

July 2006-200X : **Postdoctoral Fellow / Molecular Oncology, Dana-Farber Cancer Institute, Myles Brown Laboratory, Boston, USA.**

Nov. 2005- Apr.2006 : **Short-term post-doctoral fellow (6 months): Institut de Génétique et de Biologie Moléculaire et Cellulaire (IGBMC, UMR7104 CNRS, U596 INSERM, Director : Pr. J.L. MANDEL), Illkirch, France. Molecular pathology department, Molecular and Cellular Biology of Cancer Laboratory. Lab head : Dr. B. WASYLYK :**

AICR founded project (Association for International Cancer Research): «The Net transcription factor and prostate cancer.»

2000-2005: **Thesis/Master: Institut de Génétique et de Biologie Moléculaire et Cellulaire (IGBMC). Lab head : Dr. B. WASYLYK :**

- 2001-2005 : Thesis subject : «Roles of Net transcription factor in cell migration and tumorigenesis *via* PAI-1 and *c-Fos* genes regulation.»

- 2000-2001: Master subject : «Identification of genes regulated by Net transcription factor.»

1999 : **Training period: Laboratoire de Cancérogenèse Moléculaire (UMR217 CEA/CNRS). CEA de Fontenay-aux-Roses (Paris), France. Lab head : Dr. E. MAY., Subject : « Study of p53 binding to its consensus DNA sequence ; effect of point mutations in this sequence. »**

FELLOWSHIPS

2001-2004: Bourse Ministère de la Recherche et des Technologies (PhD grant)

2004-2005: Bourse Ligue Nationale contre le Cancer (PhD grant)

2006-2007 : Bourse Association pour la Recherche contre le Cancer (Post-doc grant)

TECHNICAL SKILLS

Basic techniques:

PCR, RT-PCR, RT-Q-PCR, molecular cloning, mutagenesis, luciferase/CAT assays, northern and western blotting, cell culture, stable/transient transfections, FACS analysis, fluorescent microscopy.

In addition:

Chromatin immunoprecipitation, RNA interference, EMSA, establishment of primary cultures (MEFs), cDNA macroarrays, migration/adhesion assays, lentivirus infections, mice colony management.

GENERAL SKILLS

Languages : French (native language), English (written, spoken and read fluently), German (basic)

Informatics (MS Office, EndNote, Photoshop, Illustrator, biological sequences analysis)

Supervisor of trainees' students (undergraduate, master)

Scientific communication for the general public: participation in scientific exhibition about cancer, science promotion events, school debate about genetic diseases...

SCIENTIFIC COMMUNICATION :

September 2004 :

Journées scientifiques IFR Gilbert Laustriat / IGBMC ; Faculté de pharmacie, Illkirch, France ; **Transcription factor Net is implicated in cell migration through regulation of Plasminogen Activator Inhibitor 1** ; Buchwalter G., Gross C. and Wasylyk B. Poster presentation.

March 2005 / 2006 :

Annual RNA interference technical trainings for research engineers and technicians ; ESBS, Illkirch, France ; **Use of RNAi to study Net transcription factor : Validation of target genes** ; Buchwalter G. Oral communications.

July 2005 :

International evaluation of the DKFZ/CGE joint program in Applied Tumor Virology ; German cancer research Center (DKFZ), Heidelberg, Germany ; **Novel potential markers in cervical cancer and targets for tumour therapy : The Net-c-Fos regulatory circuitry** ; Buchwalter G., Van Riggelen J., Wasylyk B. and Rösl F. Poster presentation.

Boston, July 2006,

