

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Blancafort, Pilar		POSITION TITLE Assistant Professor of Pharmacology	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Universitat de Barcelona	B.Sc.	1988-1993	Molecular Biology
Université de Montréal	M.Sc.	1994-1995	Biochemistry
Université de Montréal	Ph.D.	1995-1999	Biochemistry
The Scripps Research Institute	Res. Assoc	1999-2004	Biochemistry
The Scripps Research Institute	Senior Res. Assoc.	2004	Biochemistry
The University of North Carolina, Chapel Hill	Asst. Prof.	2005	Pharmacology

NOTE: The Biographical Sketch may not exceed four pages. Items A and B (together) may not exceed two of the four-page limit. Follow the formats and instructions on the attached sample.

A. Positions and Honors**Positions and Employment**

- 1988-1993 B.Sc., Molecular Biology and Biochemistry, Universitat de Barcelona (Spain)
Personal Project and last year of B.Sc (1992-1993)
Universite Libre de Bruxelles (Belgium) with Dr. Alain Ghysen
- 1994-1995 M.Sc. Program, Biochemistry, Université de Montréal (Canada)
- 1995-1999 Ph.D. Program, Biochemistry, Université de Montréal with Robert Cedergren
- 1999-2004 Research Associate in Dr. Carlos Barbas, III, laboratory, Department of Molecular Biology,
The Scripps Research Institute
- 2005 Assistant Professor, University of North Carolina at Chapel Hill, Department of Pharmacology
Member, Lineberger Comprehensive Cancer Center

Teaching Experience

- 1994-1997 Teaching assistant, biochemistry undergraduate laboratory, Faculté des Arts et des Sciences,
Université de Montréal
- 2002 Supervised summer High school teacher Paul Messier, The Scripps Research Institute
- 2003 Supervised College student Leanna Lagpacan, The Scripps Research Institute
- 2004 Supervised Ph.D student Sharon Bergquist, The Scripps Research Institute

Scholarships and awards

- 1992-1993 EEC ERASMUS fellowship to finish last year of B.Sc. in ULB (Université libre de Bruxelles), Belgium

- Fellowship from Fondation Jean Branchet (ULB, Université Libre de Bruxelles) to support foreign students at the ULB
- 1998 Winner, Simon-Pierre Noel Price Department of Biochemistry, University of Montreal.
- 1994-1999 FES (Faculté des Études Supérieures) fellowship to support foreign students in the University of Montreal
- 1999-2004 Research supported by Novartis Pharma fellowship (Oncology)

Patents: Blancafort, P. and Barbas III, C.F. "Zinc finger libraries". International Patent Application Serial No PCT/US03/03705 (2001).

B. Peer Reviewed Publications

Blancafort, P., Ferbeyre, G., Sariol, C., and Cedergren, R. Pol I-driven integrative expression vectors for yeast. *Journal of Biotechnology* 1997;56:41-7

Blancafort, P., Klinck, R., Steinberg, S., Scott, J.K. and Cedergren, R. The recognition of a non-canonical base pair by a zinc finger protein. *Chem Biol.* 1999; 6:585-97.

Segal, D.J., Beerli R.R, Blancafort, P., Dreider, B., Effertz, K., Huber, A., Kokschi, B., Magnenat, L., Valente, D., and Barbas III., C.F. (2003). Evaluation of a modular strategy for the construction of novel polydactyl zinc finger DNA-binding proteins. *Biochemistry.* 2003; 42:2137-48.

Blancafort, P., Magnenat, L. and Barbas III, C.F. Scanning the human genome with combinatorial transcription factor libraries. *Nat Biotechnol.* 2003; 21:269-74.

Lund, C.V, Blancafort, P., Popkov, M. and Barbas III, C.F. Promoter-targeted Phage Display Selections with Preassembled Synthetic Zinc Finger Libraries for Endogenous Gene Regulation. *J.Mol. Biol.* 2004; 340:599-613.

Blancafort, P., Segal, D.J., and Barbas III, C.F. (2004). Designing transcription factor architectures for drug design. *Mol Pharmacol.* 2004; 66:1361-71.

Magnenat, L., Blancafort, P. and Barbas III, C.F. (2004). *In vivo* library selection and designed affinity maturation of polydactyl zinc finger transcription factors for ICAM-1 gene regulation. *J. Mol. Biol.* Aug 13;341:635-49.

Blancafort, P., Chen, E, Gonzalez, B, Bergquist, S., Zijlstra, A., Brakenhoff, R., Edrmann, D., and Barbas III, C.F. Genetic reprogramming of tumor cells by artificial transcription factors. Manuscript in review (*Proc. Natl. Acad. Sci. USA*).

Blancafort, P., Tschan, M.P., Edrmann, D., Barbas III, C.F. *In vivo* selection of artificial transcription factors inducing drug resistance in human cancer cell lines. Submitted Manuscript.

Published abstracts:

Ferbeyre, G., Bratty, J., Blancafort, P., and Cedergren, R. (1995).Yeast as a model for hammerhead ribozyme action. *Yeast*, 11:15-48A.