

BIOGRAPHICAL SKETCH, February 2010

NAME

MENU Elisabeth

Date of birth: February 2, 1963 (Cambrai, France)



POSITION TITLE

PhD, Assistant professor, team leader in the "Regulation of Retroviral infections" Unit,

Virology Department, Institut Pasteur, Paris, France

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EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Paris Academy, France	Baccalaureate	1981	Sciences
University of Paris 6, France	Master degree	1986	Biology
Institut Pasteur, Paris, France	Certificate	1988	Immunology
University of Paris 6, France	Ph.D.	1990	Reproductive Immunology
University of Paris 6, France	Post-Ph.D. degree (HDR)	1998	Virology

A. POSITIONS AND HONORS

Positions and Employment

1987-1990:	Ph.D Student, INSERM U162, Paris France
1990:	Scientific visitor at the National Institute of Immunology, New Dehli, India.
1991-1993:	Post-doctoral fellow at the Dana Farber Cancer Institute/Harvard Medical School, Pediatric Oncology Department, Boston, USA.
1994-1998:	Post-doctoral fellow at the INSERM U131, Hôpital A. Bécclère, Clamart, France and at the Biology of Retrovirus Unit, Institut Pasteur, Paris, France.
1998-2004:	Assistant Professor class I-INSERM- INSERM U131, Clamart, France and Institut Pasteur, Retrovirus Biology Unit, Paris, France.
2004 until now:	Assistant Professor class I-INSERM- Institut Pasteur, Regulation of Retroviral Infections Unit (ex Retrovirus Biology Unit), Paris, France

Other Experience and Professional Memberships

1994-1999:	Member of the European network on the " study of <i>in utero</i> transmission of HIV-1 "
1996-1998:	Contribution at the French Agency on the AIDS Research (ANRS) Concerted Action n°11 : "HIV-1 variability survey"
1996-1998:	Contribution at the Pasteur Institute Concerted Action (ACIP) on the " study of preferential transmission of HIV-1 subtypes in Central Africa and South-East Asia "
1999 until now:	Referee for International Journals
2000 until now:	Member of the ALPS ADRIA Society for Immunology of Reproduction
2002-2006:	Member of the ANRS working group "Alternative technics in Virology"
2002 until now:	Member of the ANRS working group « Determinants of HIV-1 mother-to-child transmission by breastfeeding »
2002-2003:	Co-organizer of the first international workshop on the prevention of mother-to-child transmission of HIV, Kasane, Botswana
2003-2005:	Co-coordinator of an International Network of Integrated Research on the Prevention of Mother-to-Child Transmission (PMTCT) of HIV-1 (supported by EC and ANRS in 2003)
2004-2006:	Co-organizer of the annual Virology department meeting, Institut Pasteur, Paris
2004-2006:	Correspondent for the Virology department to the International Affair direction, Institut Pasteur, Paris
2004-2008:	Member of the editorial board of the American Journal for Reproductive Immunology

2005 until now: Member of the ANRS CSS6 "Research in Developing countries".
 2006 until now: Member of the ANRS AC31 "Innate immune responses"
 2006 until now: Member of the Local Organizing Committee of the Dominique Dormont International Conference
 2007: Chair of the Dominique Dormont International Conference 2007
 2007 until now: Member of the ANRS working group "Mother and Child-North/South" (AC12)
 2007 until now: Member of the Jury "HIV/AIDS Medical Research" of the Fondation de France
 2007 until now: Member of the Clinical Research Committee, Institut Pasteur
 2010-2013: Substitute Member of the Evaluation Committee of the scientific activities of the institute staff, Institut Pasteur

Research management and supervision

1999 until now: Thesis director or co-director of 5 PhD students, scientific supervisor or co-supervisor of 5 post-doctorant fellows, 1 engineer and 1 technician
 2000 until now: Teamleader in the Regulation of Retroviral infections Unit, Institut Pasteur, Paris
 2001-2003: Principal investigator of the project: *Establishment of an in vitro histoculture system to study the control of in utero mother-to-child transmission by the placental environment* (Sidaction)
 2002-2006: Principal investigator of the project: *Effect of antiretroviral therapies for HIV-1 mother-to-child transmission prevention on the placental environment* (ANRS 1267)
 2004-2006: Principal investigator of the project: *Futures strategies for the prevention of mother-to-child transmission : Evaluation of HIV-1 fusion and entry inhibitors by using in vitro placental models* (Sidaction)
 2005-until now: Co-investigator of the project: *Mechanisms of HIV-1 replication restriction in human cells* (ANRS)
 2006-until now: Principal investigator of the project: *Role of maternal innate immunity in the control of in utero mother-to-child transmission: Pilot study* (Sidaction)
 2008-until now: Principal investigator of the project: *Role of NK cells at the materno-fetal interface in the HIV-1 infection* (ANRS)
 2009: Principal investigator of the project: *TNF- α in response to a Plasmodium falciparum antigen: its role in the HIV-1 replication in placental cells* (Sidaction)
 2010-2012: Principal investigator of the project: *Key players of the innate immunity in the control of HIV-1 infection within the human decidua: bidirectional crosstalk between dAPCs and dNK cells* (Sidaction + ANRS)

Teaching and training activities

1988 until now: Contributions to instruction and training of more than 30 students, researchers and technicians
 1996: Molecular Biology Course - Hô Chi Minh City – Vietnam
 1996: Tropical Microbiology Course - Institut Pasteur – Paris
 1999: Fondamental Virology Course - Institut Pasteur – Paris

B.SCIENTIFIC PRODUCTION

1988 until now: - 51 scientific papers published in peer-review International Journals
 - 57 articles published in Scientific Books
 - More than 165 abstracts presented in International Scientific Meetings
 1999 until now: More than 30 oral presentations as invited speaker to international conferences or seminars

FIVE SELECTED PEER-REVIEWED PUBLICATIONS

-Menu E., M'bopi Kéou F.X., Lagaye S., Pissard S., Mauclère P., Scarlatti G., Martin J., Goossens M., Chauat G., Barré-Sinoussi F and the European Network for *in utero* transmission of HIV-1. Selection of maternal HIV-1 variants in human placenta. **J Infect Dis.** 1999;179:44-51
 -Dolcini G., Derrien M., Chauat G., Barré-Sinoussi F., Menu E. Cell-free HIV-1 infection is restricted in the human trophoblast choriocarcinoma BeWo cell line, even with expression of CD4, CXCR4 and CCR5. **AIDS Res Hum Retrov.** 2003, 19(10):857-64.
 -M. Derrien, A. Faye, G. Dolcini, G. Chauat, F. Barré-Sinoussi, E. Menu. Impact of the placental cytokine-chemokine balance on the regulation of cell-cell contact-induced HIV-1 translocation across a trophoblastic barrier *in vitro*. **J Virol.** 2005; 79:12304-12310

-A. Ayouba, C. Cannou, M-T. Nugeyre, F. Barré-Sinoussi, and E. Menu. Distinct efficacy of HIV-1 entry inhibitors to prevent cell-to-cell transfer of R5 and X4 viruses across a human placental trophoblast barrier in a reconstitution model *in vitro*. **Retrovirology**. 2008; 5:31.

-R. Marlin, M-T. Nugeyre, C. de Truchis, N. Berkane, A. Gervaise, F. Barré-Sinoussi, E. Menu. Antigen-Presenting Cells represent targets for R5 HIV-1 infection in the first trimester pregnancy uterine mucosa. **PLoSOne**, 2009, 4(6):e5971.