

## BIOGRAPHICAL SKETCH, november 2007

### NAME

**PANCINO Gianfranco**

### POSITION TITLE

**MD, PhD, Research Director INSERM  
Leader of the "Factors of natural resistance to HIV-1 infection"  
team in the "Regulation of Retroviral Infections" Unit, Virology  
department, Institut Pasteur, France**



### EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
High school, Venice, Italy	Baccalaureate	1965	
University of Padua, Padua, Italy	M.D.	1971	Medicine
University of Padua, Padua, Italy	Diploma of Environmental Medicine	1975	Medicine
University Paris XI, Paris, France	Certificate of General Epidemiology	1984	Epidemiology
University of Technology de Compiègne, Compiègne, France	Ph.D.	1989	Enzymology and Microbiology
Laboratory of Virus Genetics, Cochin Institute of Molecular Genetics (ICGM) Paris, France	Postdoc	1990-1994	Retrovirology

### A. POSITIONS AND HONORS

#### Positions and Employment

1972-1983	Medical doctor, Italy
1984-1986	Research fellowship, Leukemia Virology Unit, St. Louis Hospital, Paris, France
1986-1990	Research fellowship, Laboratory of Applied Immunology, University of Compiègne, France
1995-1999	Research Director INSERM (National Institute of Health and Medical Research), Laboratory of Virus Genetics, CNRS, Cochin Institute of Molecular Genetics (ICGM) Paris, France
1999 to present	Research Director INSERM, Regulation of Retroviral infections Unit (past "Retrovirus Biology"), Institut Pasteur, Paris, France.

#### Other Experience and Professional Memberships

1988-1990	Teaching: Lectures for graduate students and Ph.D. students, University of Compiègne, France
1994-1995	Teaching: In charge of the "Formation Continue d'Immunologie", University Paris VII, Paris, France
1991 to present	Teaching: Lectures and conferences in Virology and Immunology for post-graduate students at Paris VII University, Broussé Hospital, Pasteur Institute etc.
1998-2003,	
2006 to present	Member of Scientific Committees of the French Agency for AIDS Research (ANRS)
1998-2003	Member of the New York Academy of Science
2001-2002	Member of the European Cytokine Society
2003 to present	Member of the American Society of Microbiology (ASM)
2007	Member of the American Association of Immunologists (AAI)

Honors and Awards

2007 Gold Medal of the « Société d'Encouragement au Progrès », France

2008 Medical Research Foundation (FRM) prize « Line Renaud »

**SUMMARY OF SCIENTIFIC ACHIEVEMENTS (1984-2007)**

Between 1984 and 1990 Gianfranco Pancino contributed to the research on cancer with original findings about phenotypic changes in cancer cells, including breast cancer. He showed that most of these modifications are associated to surface glycoprotein alterations during malignant transformation. Between 1991 and 1999, he developed studies on lentiviral infections, mainly on envelope glycoprotein structure/function and vaccine research using FIV/cat and CAEV/goat models. From 1999 to present G. Pancino research is focused on the mechanisms of natural protection against HIV infection and disease studying HIV-exposed individuals who remain uninfected (exposed uninfected) and rare HIV-infected patients who control infection without any retroviral treatment (HIV-controllers). G. Pancino is author of more than 60 original articles and several reviews.

He has been and currently is PI of Research programs funded by public and private Institutions including the National Agency of Research for AIDS and Viral Hepatitis (ANRS), and Sidaction, France.

**B. FIVE SELECTED PEER-REVIEWED PUBLICATIONS**

*(SELECTED AMONG 74 PEER-REVIEWED PUBLICATIONS)*

1. Scott-Algara D, Truong LX, Versmisse P, David A, Luong TT, Nguyen NV, Theodorou I, Barré-Sinoussi F, and Pancino G. Cutting Edge: Increased NK Cell Activity in HIV-1-Exposed but Uninfected Vietnamese Intravascular Drug Users. **J Immunol. Cutting Edge** **2003**; **171:5663-5667**.
2. David, A, Sáez-Cirión, A, Versmisse, P, Malbec, O, Iannascoli, B, Herschke, F, Lucas, M, Barré-Sinoussi, F, Mouscadet, J-F, Daëron M, and G. Pancino. The Engagement of Activating Fc $\gamma$  Receptors Inhibits Primate Lentivirus Replication in Human Macrophages. **J. Immunol.**, **2006**, **177:6291-300**.
3. Sáez-Cirión A., Lacabaratz Ch, Lambotte O., Versmisse P., Urrutia A., Boufassa F., Barré-Sinoussi F., Delfraissy J-F., Sinet M., Pancino G., Venet A. for the ANRS EP36 HIV Controller Study Group. HIV controllers exhibit potent CD8 T cell capacity to suppress HIV infection ex vivo and peculiar cytotoxic T lymphocyte activation phenotype. **Proc Natl Acad Sci USA**, **2007**, 104:6776-81.
4. Scott-Algara D, Arnold V, Didier C, Kattan T, Pirozzi G, Barré-Sinoussi F, Pancino G. The CD85j+ NK cell subset potently controls HIV-1 replication in autologous dendritic cells. **PLoS ONE**. **2008** Apr 9;3(4):e1975
5. Bergamaschi A, Ayinde D, David A, Le Rouzic E, Morel M, Collin G, Descamps D, Damond F, Brun-Vezinet F, Nisole S, Margottin-Goguet F, Pancino G\* and Transy C\*. The HIV-2 Vpx protein usurps the CUL4A-DDB1<sup>DCAF1</sup> ubiquitin ligase to overcome a post-entry block in macrophage infection. **J Virol**, **2009**, 83: 4854-4860