

Curriculum Vitae:

Name: Maria Amparo Álvarez Ferrero

Date and place of birth: 1957, Asturias. Spain

Present position:

- 2005- present. Laboratory Technician on the Immunopathology platform. National Centre of Microbiology. Instituto de Salud Carlos III. Madrid, Spain.

Tertiary Education

- Laboratory Technician studies specialty Anatomy Pathology. 1994-1996, Asturias -Spain.
- Assistant Nursery Technician studies. 1992-1993, Gijón-Asturias-Spain
- Laboratory Technician studies specialty Clinical Chemistry. 1974-1977, Amersfoort-The Netherlands
- High School degree. 1969-1974, The Schothorst Institute- Amersfoort-The Netherlands

Positions and employment

- 2005- present. Laboratory Technician on the Immunopathology platform. National Centre of Microbiology. Instituto de Salud Carlos III. Madrid, Spain
- 1997-2005. Investigation Technician on the laboratory of Molecular Biology. Hospital Carlos III. Madrid, Spain
- 1990-1996. Laboratory Technician on the laboratory of Anatomy Pathology. Hospital de Jove. Gijón, Spain
- 1980-1985. Investigation Technician on the laboratory of Endocrinology. Academical Hospital- University of Utrecht (AZU). The Netherlands.
- 1976-1979. Laboratory Technician (Biochemistry and Haematology). Hospital De Lichtenberg. Amersfoort, The Netherlands.

Participation in Research Projects:

- 01/09/200–18/02/2007. Development of a technological platform for screening and characterization of compounds with antiviral activity. National Centre of Microbiology- ISCIII-Madrid
- 20/08/2007–30/06/2009. Role of the production of the chemokine CXCL12/SDF-1 by dendritic cells as a mechanism of viral immune response in HIV infection. National Centre of Microbiology ISCIII-Madrid
- 01/02/2010-09/01/2011. Genotypic and phenotypic evolution of HIV in patients treated with antagonists of CCR5. National Centre of Microbiology-ISCIII-Madrid
- 10/01/2011-19/03/2013 Molecular study of the polymerase and the envelope of the HIV as factors of virulence in patients naive and with antiviral treatment. National Centre of Microbiology-ISCIII.

Virus-host interaction: Interaction of new targets for antiviral action (VIRHOST)-S2006/SAL-0185-C.A.M. National Centre of Microbiology-ISCIII-Madrid

Development of a vaccine against HIV: isolation and characterization of neutralizing antibodies of wide spectrum. Design of immunogens able to generate these antibodies. FIS PS09/01459. FIS. National Centre of Microbiology-ISCIII-Madrid

Publications

1. García F, Bernaldo de Quirós JC, Gómez CE, Perdiguero B, Nájera JL, Jiménez V, García-Arriaza J, Guardo AC, Pérez I, Díaz-Brito V, Conde MS, González N, Alvarez A, Alcamí J, Jiménez JL, Pich J, Arnaiz JA, Maleno MJ, León A, Muñoz Fernández MA, Liljeström P, Weber J, Pantaleo G, Gatell JM, Plana M, Esteban M **Safety and immunogenicity of a modified pox vector-based HIV/AIDS vaccine candidate expressing Env, Gag, Pol and Nef proteins of HIV-1 subtype B (MVA-B) in healthy HIV-1-uninfected volunteers: A phase I clinical trial (RISVAC02).** Vaccine. **2011** Sep 9. PMID: 21907749
2. Medina-Ramírez M, Sánchez-Merino V, Sánchez-Palomino S, Merino-Mansilla A, Ferreira CB, Pérez I, González N, Alvarez A, Alcocer-González JM, García F, Gatell JM, Alcamí J, Yuste E **Broadly Cross-Neutralizing Antibodies in HIV-1 Patients with Undetectable Viremia** J Virol. **2011** Apr 6. PMID: 21471239
3. González N, Pérez-Olmeda M, Mateos E, Cascajero A, Álvarez A, Spijkers S, García-Pérez J, Sanchez-Palomino S, Ruiz-Mateos E, Leal M, Alcamí J. **A sensitive phenotypic assay for the determination of human immunodeficiency virus type 1 tropism.** J Antimicrob Chemother. **2010** Dec;65(12):2493-501. Epub 2010 Oct 14. PMID: 20947622

4. Gonzalez N, Alvarez A, Alcamí J. **Broadly Neutralizing Antibodies and their Significance for HIV-1 Vaccines.** *Curr HIV Res.* **2010** Nov 5 PMID: 21054253
5. Bedoya LM, Márquez N, Martínez N, Gutiérrez-Eisman S, Alvarez A, Calzado MA, Rojas JM, Appendino G, Muñoz E, Alcamí J. **SJ23B, a jatrophone diterpene activates classical PKCs and displays strong activity against HIV in vitro.** *Biochem Pharmacol.* **2009** Mar 15;77(6):965-78. Epub 2008 Dec 3 PMID: 19100719
6. Bedoya LM, Alvarez A, Bermejo M, González N, Beltrán M, Sánchez-Palomino S, Cruz SM, Gaitán I, del Olmo E, Escarcena R, García PA, Cáceres A, San Feliciano A, Alcamí J. **Guatemalan plants extracts as virucides against HIV-1 infection.** *Phytomedicine.* **2008** Jun;15(6-7):520-4. Epub 2008 Feb 20. PMID: 18068962
7. Holguín A, Álvarez A, Soriano V. **Variability in the P6gag domains of HIV-1 involved in viral budding.** *AIDS,* **2006** Feb 28;20(4):624-7. PMID: 16470130.
8. Holguín A, Álvarez A, Soriano V. **Differences in the length of Gag proteins among different HIV-1 Subtypes.** *AIDS Res Hum Retroviruses.* **2005** Oct; 21(10):886-93. PMID: 16225417
9. Lospitao E, Álvarez A, Soriano V, Holguín A. **HIV-1 subtypes in Spain: a retrospective analysis from 1995 to 2003.** *HIV Med.* **2005** Sep;6(5):313-20. PMID: 16156878
10. Holguín A, Álvarez A, Soriano V. **Heterogeneous nature of HIV-1 recombinants spreading in Spain.** *J Med Virol.* **2005** Mar; 75(3):374-80 PMID: 15648070.
11. Gutiérrez M, Tajada P, Álvarez A, De Julián R, Baquero M, Soriano V, Holguín A. **Prevalence of HIV-1 non-B subtypes, syphilis, HTLV and hepatitis B and C viruses among immigrant sex workers in Madrid, Spain.** *J. Med Virol.* **2004** Dec; 74(4):521-7 PMID:15484270.
12. Holguín A, Alvarez A, Pena MJ, Artiles F, Molina L, Soriano V. **HIV-positive immigrants in the Canary Islands, Spain: implications for public health in Europe.** *HIV Clin Trials.* **2003** May-june;4(3):194-92. PMID: 12815558
13. Holguín A, Álvarez A, Soriano V. **HIV-1 Subtype J recombinant Viruses in Spain.** *AIDS Res Hum Retroviruses.* **2002** May 1;18(7):523-9. PMID: 12015907.
14. Holguín A, Álvarez A, Soriano V. **High Prevalence of HIV -1 subtype G and natural polymorphisms at the protease gene among HIV infected immigrants in Madrid.** *AIDS* **2002** May 24; 16(8):1163-70. PMID: 12004275.
15. Holguín A, Álvarez A, Soriano V. **Impact of HIV –1 non- B subtypes in Madrid, Spain.** *The Infectious Disease Review (IDR)* **2001**, Vol. 3, 149.

Participation in congresses

- Poster **Measurement of HIV-1 neutralisation in PBMCs using a recombinant virus system carrying luciferase gene as reporter.** EUROPRISE Network Annual Conference Budapest. Nov.15-18 **2009**
- Poster **Evaluation of HIV-1 tropism using a new and sensitive system based on recombinant viruses.** XVII International HIV Drug Resistance Workshop Sitges, Spain. June 10-1 **2008**
- Poster TuPe4.3B05 **Evaluation of the TRUGENE HIV-1 env genotyping assay to determine resistance to Enfuvirtide in district HIV-1 subtypes.** 3th IAS Conference on HIV Pathogenesis and Treatment. Rio de Janeiro, Brasil. **2005.**
- Poster WePeC6197 **High rate of non-B subtypes and syphilis but low rate of HTLV and hepatitis B and C viruses among immigrant sexworkers in Madrid, Spain.** XV International AIDS Conference Bangkok, Tailandia **2004.**
- Poster TuPeA4375 **Variability of protease cleavage sites and gag proteins among different HIV-1 subtypes in drug naive and antiretroviral-experienced patients.** XV International AIDS Conference Bangkok, Tailandia **2004.**
- Poster **Increasing prevalence and heterogeneous nature of HIV-1 subtype G recombinants spreading in Southern Europe.** 9 th Conference of Retroviruses and Opportunistic Infections, Seattle. (EEUU) **2002.**
- Poster **Identification of non B subtypes of HIV –1 in Las Palmas of Gran Canaria** (Abstract 247) SEIMC-Seville. **2002.**
- Poster **Spectrum of natural polymorphism at the protease gene in naive patients infected with HIV –1 non B subtypes.** 3 th European Symposium on the clinical implications of HIV Drug Resistance. Frankfurt (Germany). **2001.**
- Poster **High prevalence of HIV –1 subtype G and spectrum of natural polymorphism at the protease gen among HIV infected immigrants attended in Madrid.** 1 th IAS Conference of HIV Pathogenesis and treatment. Buenos Aires (Argentina). **2001.**
- Paper **Prevalence of non B subtypes of HIV –1 between foreigners living in Madrid, Spain.** National Congress AETEL (Spanish Association of Laboratory Technicians) Zaragoza (Spain). **2001.**
- Paper **Protease gene analysis of non B subtypes of HIV-1 in Spain.** National Congress AETEL (Spanish Association of Laboratory Technicians) Zaragoza (Spain). **2001.**