

## **Curriculum Vitae:**

**Name:** Sara Rodríguez Mora

**Date and place of birth:** 1983, Madrid, Spain

### **Present position:**

- 2014-present. Sara Borrell Postdoctoral researcher in AIDS Immunopathogenesis Unit. Molecular Pathology Service, National Centre of Microbiology. Instituto de Salud Carlos III. Madrid, Spain.

### **Tertiary Education**

- 2001-2007. Biology studies. Universidad Autónoma, Madrid, Spain.
- 2006-2007. Final Degree Project entitled “Study of sperm DNA integrity in infertile patients and its relationship with pregnancy rates after assisted reproduction treatment”. Department of Andrology. Instituto Valenciano de Infertilidad (IVI), Madrid, Spain.
- 2007. Biology degree. Universidad Autónoma, Madrid, Spain.
- 2012. PhD in cell biology. Thesis entitled “Impact of dopamine agonist in molecules involved in the development of endometriosis”. Universidad Rey Juan Carlos, Madrid, Spain.

### **Positions and employment**

- 2007-2008. Research assistant in department of Andrology. Instituto Valenciano de Infertilidad (IVI), Madrid, Spain.
- 2008-2012. Pre-doctoral fellow. Universidad Rey Juan Carlos, Madrid, Spain.
- 2012-2013. Researcher associated with the project entitled “Analysis of selective inhibitors of the protein kinase C (PKC) for locking theta HIV replication during primary infection” Instituto de Salud Carlos III. Madrid, Spain.
- 2013-2014. Researcher associated with the project entitled “MRV Prep, p24 determinations and rectal biopsies”. Instituto de Salud Carlos III. Madrid, Spain.

### **Areas of research interest:**

- Study of latency and reactivation of HIV-1; analysis of transactivation mechanisms responsible for active viral replication in CD4+ T cells; study of NF- $\kappa$ B/Tat synergy for the identification of new therapeutic targets; analysis of changes of expression and posttranslational modifications in the proteome and genome of T cells expressing intracellular Tat and its impact on the structure of the cellular cytoskeleton; analysis of the mechanisms of degradation of p65/RelA (NF- $\kappa$ B) and its importance in HIV-1 infection; study of changes in RNA metabolism induced by the intracellular expression of Tat.
- Discovery of new potential strategies to reduce the size of the reservoir during HIV-1 infection: analysis of PKC theta, PKC delta and Lck as potential targets to reduce HIV-1 replication in T lymphocytes during acute infection.
- Study of the involvement of Transportin-3 protein (TNPO-3) in the replication of HIV.

### **Participation in research projects**

- 2006-2007. Study of sperm DNA integrity in infertile patients and its relationship with pregnancy rates after assisted reproduction treatment. Instituto Valenciano de Infertilidad (IVI).
- 2007-2008. Strategies testosterone stimulation: FSHr labels. IVI Foundation for the study of human reproduction.
- 2008-2012. Antiangiogenic action of dopamine agonists in endometriotic lesions. Ministry of Science and Innovation. Personal Training Sub-Investigator (PSI).
- 2012-2013. Analysis of selective inhibitors of the protein kinase C (PKC) for locking theta HIV replication during primary infection. Ministry of Health, Social Services and Equality.
- 2013-2014. MRV Prep, p24 determinations and rectal biopsies. Hospital CLINIC, Barcelona, Spain.
- 2013-2016. AIDS Research Network in Spain (RIS). Immunopathogenesis of HIV and vaccine development program: Immunopathogenesis of HIV infection, immunotherapy and development of vaccine. Instituto de Salud Carlos III. Madrid, Spain.

## **Publications**

- M. Cerrillo, **S. Rodríguez**, M. Mayoral, A. Pacheco, J. Martínez-Salazar and J. A. García Velasco. Differential regulation of VEGF after final oocyte maturation with GnRH agonist versus hCG: a rationale for OHSS reduction. *Fertility and Sterility*. 2009; 91(4 Suppl):1526-8.
- J.A. García-Velasco, L. Motta, **S. Rodríguez**, M. Toribio, J. Martínez-Salazar, A. Pacheco. Decreased concentrations of AMH in follicular fluid of women with endometriosis: A hypothetical new marker of oocyte quality. *Journal of Endometriosis*. 2009; 1 (1): 52-56.
- Cerrillo M, Pacheco A, **Rodríguez S**, Gómez R, Delgado F, Pellicer A, García-Velasco J.A. Effect of GnRH agonist and hCG treatment on VEGF, angiopoietin-2, and VE-cadherin: trying to explain the link to ovarian hyperstimulation syndrome. *Fertility and Sterility*. 2011; 95(8): 2517-9.
- **Sara Rodríguez Mora**, Juan Antonio García-Velasco. Chapter 6: Apoptosis in endometriosis. *New Developments in Endometriosis*. 2011; 163-179.
- García-Velasco JA, **Rodríguez S**, Agudo D, Pacheco A, Schneider J, Pellicer A. FSH receptor in vitro modulation by testosterone and hCG in human luteinized granulosa cells. *European Journal of Obstetrics & Gynecology and Reproductive Biology*. 2012; 165 (2): 259-264.
- López-Huertas MR, Mateos E, Sánchez Del Cojo M, Gómez-Esquer F, Díaz-Gil G, **Rodríguez-Mora S**, López JA, Calvo E, López-Campos G, Alcamí J, Coiras M. The presence of HIV-1 Tat Second Exon Delays Fas-Mediated Apoptosis in CD4+ T lymphocytes: a Potential Mechanism for Persistent Viral Production. *J Biol Chem*. 2013; 288 (11):7626-7644.

## **Participation in scientific meetings**

- Throughout my career I have participated in many international and national meetings including Conference on Retrovirus and Opportunistic Infections (CROI), European Society of Human Reproduction and Embryology (ESHRE), Spanish society of fertility (SEF), Society for Gynecologic Investigation (SGI) and American Society for Reproductive Medicine (ASRM).

## **Participation in scientific courses**

- I have made numerous specialized courses including Analytical Flow Cytometry and Data Analysis, Laboratory PCR: optimization and application, Statistical Analysis with Computer Application (SPSS), Microarrays Course and Accreditation for the use of experimental animals: category B.