

## **2006 Dr. Antonio H. Campos, Brazil**

**Antônio Hugo José Fróes Marques Campos, M.D.**

Report of activities of Gordon Signy Foreign Fellowship 2007  
WASPALM (World Association of Societies of Pathology and Laboratory Medicine)  
WPF (The World Pathology Foundations)

### **Institution:**

Centro Nacional de Investigaciones Oncologicas (CNIO)  
Programa de Patologia Molecular (Molecular Pathology Program)

### **Supervisor:**

Miguel Angel Piris, M.D.  
Director of the Molecular Pathology Program

**Duration:** from July 2, 2007 to September 21, 2007.

**Nature of training:** Internship.

### **Activities Report:**

I arrived at CNIO on July 2<sup>nd</sup>, being welcomed by Dr. Piris and Dr. Santiago Moreno. The Molecular Pathology Program is located at the 3<sup>rd</sup> floor of the CNIO building, being composed of many laboratories where cancer diagnosis and research takes place. I stayed with Dr. Santiago Moreno and other trainees at the "Grupo de Linfomas" (Lymphoma group) seeing the cases of lymphoma for diagnosis or consultation that arrive from all over Spain and from places in Portugal. The cases were first evaluated by me, Dr. Moreno and the other trainees, so we could ask for the appropriate immunohistochemistry panel for each case, PCR for clonality, and when indicated, FISH exams for translocation detection. Each Tuesday and Fridays we saw the cases with Dr. Miguel Piris and other collaborators at the CNIO (such as Dr. Juan F. Garcia and Dr. Manuela Mollejo), in a multi-head microscope. Since CNIO is primarily a research institute, each case was evaluated not only for the appropriate diagnosis, but also for the investigation of new markers that are being developed and evaluated at the CNIO.

I also had the opportunity of learning the PCR technique that is currently in use at CNIO, which was one of the institutions involved in the BIOMED Concerted Action for improving lymphoma diagnosis via PCR-based clonality testing.

Apart from the diagnosis internship, I also had the opportunity to collaborate in the research activities that we currently being done CNIO, mainly evaluating the expression of antibodies in lymphoma tissue microarrays. I also started the

selection of cases of Lymphocyte rich classical Hodgkin lymphoma to study the its similarities and differences with Nodular Lymphocyte Predominant Hodgkin Lymphoma. This work was later conducted by another trainee (Dr. Maria Teresa Salcedo), since a health problem prevented me from finishing it appropriately before the end of the internship.

I also had the opportunity to attend the meetings that take place every week to discuss the researches that are currently being developed at the Molecular Pathology Program, and the meetings and seminars that take place every week at the CNIO auditorium, with the presence of researchers from other institutions. At the end of my internship, I had the opportunity to attend the CNIO Retreat 2007, a seminar in which each Research Program of the Institution presents the investigations that are currently being undertaken to the knowledge and collaboration of the staff from the whole institution.

### **Personal acknowledgments:**

This internship gave me the opportunity to get in touch with the activities of a top research institution in Europe, in lymphoma diagnosis and research. I also had the opportunity to learn a new language (Spanish), since I had decided to speak English only when necessary (although CNIO is an institution that receives students and investigators from all over the world, so English is commonly spoken there). An orthopedic/rheumatologic problem that started in the middle of the internship prevented me from learning the FISH techniques that are used at CNIO, and also from finishing the research works in Hodgkin lymphoma, but I believe I was able to accomplish the most part of my goals when I applied for the Gordon Signy Fellowship 2007. To do that, I had the support of Dr. Miguel Piris, Dr. Santiago Moreno, the trainees and all the staff at the CNIO.

Sincerely yours,

Antonio Hugo Jose Froes Marques Campos, M.D.  
Dated: December 11, 2007.