

## **Diagnostic information:**

### **Tests to do:**

Electronmicroscopy and Mucociliary clearance study

### **Facilities that do mucociliary clearance study:**

Tufts University and the University of Pennsylvania

## **Biopsy Samples**

### **Why send biopsy samples?**

The cilia in the nasal passages are the same as in the lungs and are therefore representative of what's going on in the lungs. The sample will be examined under the microscope to look at the cilia "in action". This allows us to determine if the cilia are moving in a coordinated fashion or if there is abnormal movement. After observation under the microscope, we send the biopsy out for electronmicroscopy to examine the fine structure of the cilia.

### **What do we need you to send?**

Nasal biopsies (2-4 mm in diameter); placed in transport media obtained from our lab (call 215-898-0029 to obtain media). Upon request, we will send you some transport media in which the biopsy sample is to be placed.

### **What information do we need to accompany the biopsy samples?**

Please include basic pedigree information (both registered and call (pet) names, gender, parents, and date of birth) and available health records.

### **Where to send all of the above?**

Dr. Margret L Casal  
Section of Medical Genetics  
VHUP Room 4015  
3900 Delancey Street  
Philadelphia, PA 19104-6010  
Ph: 215-898-8894  
FAX: 215-573-2162

or

Dr Iris Reichler  
Department of Small Animal Reproduction  
Winterthurerstrasse 260  
CH-8057 Zuerich  
Switzerland

## **Blood Samples**

### **Why do we need blood samples?**

We are requesting blood samples to determine the gene(s) and the mutation responsible for PCD in the Irish Wolfhound. We extract DNA and then examine a variety of genes. These type of investigations usually take a very

long time (sometimes years!) but they are essential for the development of a DNA-based test to determine carriers and to fine-tune your breeding program.

**How much blood do we need and in what type of tube?**

We are requesting blood samples from normal and affected dogs to extract DNA. Five - 10 ml of EDTA blood (purple top tube) should be sufficient.

**What information do you need to send?**

Please include basic pedigree information (both registered and call (pet) names, gender, parents, and date of birth), available health records and remit the signed consent form (available on the left side of this page).

**How do you need to send the blood?**

The blood may be sent on ice packs or at room temperature, but NOT frozen.

**Where to send all of the above?**

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If you will be shipping internationally, please see either the Federal Express instructions at left or go to the USPS Form [4000](http://www.usps.com/forms/_pdf/ps4000.pdf) online ([http://www.usps.com/forms/\\_pdf/ps4000.pdf](http://www.usps.com/forms/_pdf/ps4000.pdf)).