

# The Dog Genome Project



## HELP US CURE DOG DISEASES!



*We are Searching for Genes for Bone Cancer and Other Diseases  
Why? Carrier Testing and Improved Treatment in Dogs and Humans*

### **Blood samples or cheek swabs from ALL breeds are needed!**

#### **What are we doing?**

The world of dog geneticists, oncologists, veterinarians and dog owners is about to change! The Canine Genome Sequencing Project, based here in Boston at the Broad Institute at Harvard and MIT, finished sequencing the dog genome this summer. Now, we are using this important new resource to find genes for canine diseases such as cancer, diabetes and epilepsy.

With the support of the AKC Canine Health Foundation, we are first investigating the genetics of osteosarcoma (bone cancer). We are searching for regions of the genome that differ between healthy dogs and dogs with osteosarcoma to allow carrier testing. Ultimately, we will identify the defective genes causing this disease, improving treatment in dogs and in people with bone cancer.

#### **What can you do?**

- If you have a healthy dog (especially a dog 8 years or older), we would really appreciate a blood sample and the AKC number or pedigree information.
- If your dog has osteosarcoma, please ask your veterinarian to draw a blood sample and send it to us together with the clinical information.

#### **It is NOT necessary to shave the dog!**

#### **Information for Veterinarians:**

Please collect 5 ml of blood in an EDTA tube and ship to the address at the bottom of this page along with the signed consent form on the reverse side of this flyer. Please let us know to expect the sample.

Unfortunately, we are unable to reimburse for the cost of shipping or veterinary expenses, and we greatly appreciate your assistance with our research.

More details on blood collection and cheek swabs: [http://www.broad.mit.edu/mammals/dog/vet\\_info.html](http://www.broad.mit.edu/mammals/dog/vet_info.html)

#### **If you have questions please contact us at:**

Dog Genome Project

Fax: 617-252-1902

Broad Institute

Email: [dog-info@broad.mit.edu](mailto:dog-info@broad.mit.edu)

One Kendall Square, Bldg 300

Website: <http://www.broad.mit.edu/mammals/dog/>

Cambridge, MA 02139

#### **We need your help!**

We are collecting DNA from **all dog breeds** so we can search for genes for many different dog diseases.

For our bone cancer study, we need to collect blood samples or cheek swabs from:

**Rottweilers**

**Labrador Retrievers**

**Greyhounds**

**Irish Wolfhounds**

**Leonbergers**

**Rhodesian Ridgebacks**

**Great Danes**

**Golden Retrievers**

**Saint Bernards**

**Newfoundlands**

**Mastiffs**

**Scottish Deerhounds**

**Bullmastiffs**

We need samples from both dogs that are sick with osteosarcoma and dogs that are healthy.

**All personal information and contact information will be kept confidential.**

## Blood Sample Release Form

### **Research Statement:**

We would like to obtain a blood sample from your dog. The sample will help us to explore canine genetic issues including patterns of genetic diversity between and within breeds, and in disease states.

*What are the risks Involved with a blood sample?*

A blood draw may cause a slight momentary discomfort to your dog as the needle is inserted. There is a small possibility that some bruising might be seen around the draw site. This should cause your dog only marginal, short-term discomfort and not have any major consequences. If your dog becomes aggressive and/or bites during the blood sampling process, the Canine Genome Project and the Broad Institute are not liable in any way for any resultant physical harm or property damage. Compensation is not available in the unlikely event of physical harm to your dog resulting from the blood draw procedure.

*Who will have Access to the Information and Specimen?*

Only the "Osteosarcoma mapping project" research staff will see research information and specimens that can identify your dog. Any studies utilizing your dog's oral/blood tissue sample will occur with the understanding that none of your dog's unique identifiers (name, AKC number, etc.) will be distributed or published.

### **Dog Owner's Statement:**

I have read the information provided above and have had an opportunity to ask questions regarding the procedures involved. I am the owner or the agent for the owner of the dog described below and I have the authority to execute this release. My signature below indicates I voluntarily agree to give my dog's oral tissue or blood specimen for this study.

Owner's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Owner's Name (printed): \_\_\_\_\_

Email Address: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Dog's Name: \_\_\_\_\_

Dog Breed: \_\_\_\_\_ Registration number: \_\_\_\_\_

Variety/Coat Color: \_\_\_\_\_ Dog Gender:  Male  Female

Pedigree enclosed:  yes  no Birth Year: \_\_\_\_\_

Any known diseases in this dog or related dogs:

### Please send sample to:

Dog Genome Project  
Broad Institute  
One Kendall Square, Bldg 300  
Cambridge, MA 02139

Fax: 617-252-1902 (let us know to expect the sample)  
Email: [dog-info@broad.mit.edu](mailto:dog-info@broad.mit.edu)  
Website: <http://www.broad.mit.edu/mammals/dog/>

***All personal information and contact information will be kept confidential.***