

## **CANINE DNA TESTING**

### **Instructions for Sampling & Testing at the University of Missouri**

While DNA testing through OFA is not available due to a manufacturer backorder of the kits, dogs may be tested at the University of Missouri using a blood sample as the DNA source. Please read and follow the instructions below.

**Blood Sample** – Whole blood, not clotted – minimum sample is 2mls, ideal sample is 5-7mls in EDTA (purple-top) tube or tubes. DO NOT spin or extract serum – send whole, unclotted blood. *Samples less than 2mls and clotted samples will not be processed!* Refrigerate if the sample is being held for any time before shipping. Please do not hold samples more than 1 week before shipping, because the sample may not yield usable DNA if it is delayed longer.

**Label sample** with the following;

call name - owner's last name

(If samples from several dogs are sent together, number samples and forms)

Complete the **Canine DNA Test Request form** on the next page, and include either a pedigree copy or registration certificate copy for the dog.

**Include payment of \$65 per test.** Payment must be check or money order, payable to "University of Missouri". We cannot accept credit card payment, unfortunately. Payment must accompany sample!!

Place the paperwork and payment in a ziplock bag, separate from the blood sample.

BE CERTAIN TO INCLUDE A LEGIBLE EMAIL ADDRESS ON THE FORM!

**Shipping** - Ideally the sample should be shipped immediately. If samples are held for a day or over a weekend, blood must be refrigerated. Ship via overnight or 2<sup>nd</sup> day delivery (US Mail, UPS, or FedEx) for arrival only Monday thru Friday. **Do not send on a Friday** - there will not be anyone to accept the delivery on a weekend, and the sample could be unusable by Monday. Pack in a small crush-proof (preferably insulated) container with one or more cool packs - it is important that blood samples be kept cool but not frozen. Be sure to protect the blood tubes from being crushed by the frozen cool pack – pad the tube(s) and fill empty space in the box with crushed newspaper, bubble wrap, or packing peanuts.

**The delivery address is:**

Dr. Gary Johnson – DNA Testing  
320 Connaway Hall  
University of Missouri  
Columbia, MO 65211

(this IS a valid address, though some UPS shippers do not recognize it – if the UPS shipper cannot override the "error" message, use 201 Connaway Hall – we will get it!)

**If you need clarification**, or have any questions about any of these procedures, please contact Liz Hansen by email ([HansenL@missouri.edu](mailto:HansenL@missouri.edu)), phone (573-884-3712), or regular mail (321 Connaway Hall, University of Missouri, Columbia, MO 65211).

**Thank you !**

# **CANINE DNA TEST REQUEST**

## **Individual Dog Information**

Sample: Whole blood in EDTA tube: minimum 2mls – ideal is 5 to 7mls

Breed \_\_\_\_\_

Variety \_\_\_\_\_

Registered Name \_\_\_\_\_

Call name \_\_\_\_\_

Reg# \_\_\_\_\_ Birth Date \_\_\_\_\_

Male / Female - - Intact / Neutered

Sample Submission Date: \_\_\_\_\_

Color \_\_\_\_\_

Test Being Requested (please circle)

DM – Degenerative Myelopathy (any breed)

Fanconi Syndrome (Basenjis)

NCL – Neuronal Ceroid Lipofuscinosis (Am Bulldog, Dachshund)

NEwS – Neonatal Encephalopathy with Seizures (Std Poodle)

PLL – Primary Lens Luxation (any breed)

Owner: name \_\_\_\_\_ Veterinarian \_\_\_\_\_

address \_\_\_\_\_

city-st-zip \_\_\_\_\_

phone \_\_\_\_\_

e-mail \_\_\_\_\_

**\*\*\*\*Results are reported via email – please provide complete, legible email address!\*\*\*\***

Report test results to (please circle):    Owner    Veterinarian    Both

Has this dog been diagnosed as likely to be affected with the disease being tested for?    Yes    No

Does this dog exhibit any symptoms of the disease being tested for?    Yes    No

If Yes, please list observed symptoms \_\_\_\_\_

\_\_\_\_\_

Have any relatives of this dog been diagnosed as AFFECTED with this disease?    Yes    No    Don't Know

If Yes, what relative(s)?    Sire    Dam    Sibling    Grandparent    other \_\_\_\_\_

Have any relatives of this dog been DNA-tested as a CARRIER for the disease?    Yes    No    Don't Know

If Yes, what relative(s)?    Sire    Dam    Sibling    Grandparent    other \_\_\_\_\_

Has this dog been diagnosed with, or does it show symptoms of any other disease, abnormality, or temperament issue? (Please list)

\_\_\_\_\_

Other Comments / Questions / Concerns?

I am the owner or authorized agent of this dog and I submit this sample and pedigree for the purpose of DNA testing; I understand that DNA left over following the test may be stored for potential future research; I understand that the results of this test will be reported only to the owner listed on this form and to the veterinarian (if requested) listed here; and I have supplied complete and accurate information, to the best of my knowledge.

Signed: \_\_\_\_\_

date \_\_\_\_\_