

Sample Collection & Shipping Instructions

Sending samples: At this time funding for the Cancer Registry at the University of Missouri is limited and participation is restricted to select breeds. If you own a dog of one of these breeds and your veterinarian suspects cancer please follow these guidelines when submitting the sample to the Cancer Registry. **Each submission must include these:** (1) Registry Form, (2) Pedigree copy, (3) blood sample, (4) formalin-fixed cancer sample, and (5) frozen cancer sample. A diagnosis for the cancer will be provided to the veterinarian within 24 to 72 hours of receiving the samples. The DNA will be banked for future studies.

1. **Blood:** the ideal sample for collection of DNA is 5cc of whole blood in a purple-topped (EDTA) tube. For very small dogs, 3cc will be sufficient. The blood sample needs only to be put into the tubes and rocked gently a few times to distribute the anticoagulant--do not spin, extract serum or anything further. Refrigerate if the sample is being held for any time before shipping.
2. **Cancer sample, frozen:** a *cube* of the cancer (one half inch square *cube* is sufficient) should be frozen. This sample should be entirely cancer tissue and should not include any normal tissue. This sample will be used for extraction of cancer DNA.
3. **Cancer sample, formalin-fixed:** a thin *slice* of the cancer should be put into formalin fixative. This slice should include the junction of normal tissue and cancer so malignancy can be determined. This tissue will be used for histological diagnosis and classification of the cancer.
4. **Shipping:** ideally, the samples should be shipped immediately (with the tissue sample for DNA extraction be sure it is completely frozen prior to shipping). If samples are held for a day or over a weekend, blood must be refrigerated, and one tissue sample must be kept frozen. Ship via overnight delivery (US Mail, UPS or FedEx). **DO NOT SEND ON A FRIDAY**--there will not be anyone to accept the delivery on a Saturday, and the samples could be unusable by Monday. Pack the samples in a small insulated container (most vets have these for shipping samples to labs), with one or more cool packs. It is important that blood samples be kept cool but not frozen and one tissue sample be kept as frozen as possible. The formalin-fixed sample will not be affected by temperature and can be put into the same package as the other two samples.
5. **Delivery address:**
Dr Larry Thornburg, Cancer Registry
209A Connaway Hall
1600 East Rollins
University of Missouri
Columbia, MO 65211
6. **If you have any questions you can contact either Dr. Larry Thornburg, (phone 573-882-7038 or e-mail ThornburgL@missouri.edu), or Ms. Liz Hansen (phone 573-884-3712 or e-mail at HansenL@missouri.edu.)**

Cancer Registry Submission Form
College of Veterinary Medicine - University of Missouri

Date of Submission: _____ DOG ALIVE/DEAD

Breed of Dog: _____ Birth Date: _____

Reg. Name: _____ Call Name: _____

AKC # _____ Male/Female - intact/neutered Pedigree attached? Y/N

Owner: Name: _____ **Veterinarian:** Name: _____

Address: _____ Address: _____

City/State/Zip: _____ City/State/Zip: _____

Phone: _____ Phone: _____

e-mail: _____ FAX #: _____

HISTORY (USE BACK IF NECESSARY)

Size of Cancer:

Location(s) of the Cancer:

How long has the cancer been present?

Has this cancer been previously removed with surgery? NO YES

If yes please list the date(s) of the previous surgery:

Has this dog had other cancers? NO/YES (if yes see next)

- a. Location of previous cancer(s):
- b. Type of cancer (diagnosis by laboratory):
- c. Age when other cancer(s) found:

Have any relatives been diagnosed with cancer? YES/NO/UNKNOWN (if YES continue)

Relation to this dog:

Location of cancer:

Diagnosis:

Age when cancer was found:

Any other health problems in this dog or close relatives? Please list (use back if necessary).