

**BREEN & MODIANO LAB CANINE CANCER STUDY**  
**Procedures for Enrollment**

**SAMPLES ARE NEEDED FROM THE FOLLOWING BREEDS:**

Australian Shepherd Bernese Mountain Dog Border collie Boxer Briard Bullmastiff Cocker Spaniel Dachshund Flat-coated retriever Golden retriever
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Greyhound Irish Setter Labrador retriever Mastiff Old English Sheepdog Poodle (all types) Portuguese Water Dog Rottweiler Saluki Viszla
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Types of samples required:

**1) Cancer free seniors – blood samples**

Please send 5ml of EDTA (lilac-top) blood from dogs considered 'seniors' for each breed and which have no cancer history.

**2) Tumor bearing dogs – blood samples and tumor samples**

Samples are requested from the following cancer types:

Non-Hodgkins Lymphoma  
Hemangiosarcoma  
Osteosarcoma

Please follow the attached guidelines for sample submission.

Please let us know by e-mail to [info@breenlab.org](mailto:info@breenlab.org) as soon as the samples are ready for sending so that we can make sure we are ready to receive them.

If the sample collection happens on a Friday, please keep the samples refrigerated over the weekend and send them to us on the following Monday.

Please send packages to: **BREEN LAB,**  
Room 330A CVM Research Building,  
NCSU College of Veterinary Medicine,  
4700 Hillsborough Street,  
Raleigh, NC27606.

**PHONE: 919-513-1466**

**Sample Submission Instructions**

Please call (919-513-1466) or e-mail ([info@breenlab.org](mailto:info@breenlab.org)) if you need further clarification with these instructions.

• **Biological specimens required (for all tumor types)**

Check  
list

5-10mls of blood in EDTA tubes (lilac top) - keep cold in a refrigerator then ship overnight with a cold-pack in a well-padded container →

Clean, representative, blueberry-size tumor biopsy sample (or at least 2 tru-cuts, 14 gauge) in the supplied transport medium, or in a sterile empty tube. Please keep tissue samples and blood cool in the refrigerator and then ship cold (not frozen) overnight. →

Clean, representative, blueberry-size tumor biopsy sample (or at least 2 tru-cuts, 14 gauge) in 10% formalin →

Please ensure these samples are all collected in the correct clinical specimen collection container and each is sealed well to prevent leakage →

Please ensure that each sample tube is labeled with the dog's first and last name, breed, the date of collection and the tissue type →

For safety, please ensure that the shipment packaging complies with the regulations of the carrier used →

• **Paperwork required**

A copy of the pedigree and AKC number - please tell us also the call name and last name of the dog on the consent form →

A copy of any relevant diagnostic pathology report →

A copy of relevant recent (last three months) clinical history and treatment protocols →

A copy of any planned cancer treatment protocols to be administered to the patient →

A signed copy of the study consent form that can be downloaded from [www.BreenLab.org](http://www.BreenLab.org) →