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Dear Doctor,

Your client has brought this information to you because he or she supports our research and believes that you may have an interest in helping us obtain blood and tissue samples from dogs diagnosed with lymphoma, hemangiosarcoma and osteosarcoma.

We have prepared a three-page document to describe what we need and how to submit the samples. We would be most grateful if you would kindly review this document with your colleagues and staff and let us know if you are interested in participating, and if you have any questions. We will then send you some tissue transport media in 50ml tubes with instructions on how to store and use these for submitting tumor tissues. If you need us to send you EDTA (lilac top) tubes also, please let us know and we can add these to the parcel we send. Please let us know approximately how many cases you think you would be likely to be able to obtain samples from in the next six months so that we can send you an appropriate number of collection tubes.

Thank you for your consideration of this request. We are confident that this project will continue to provide valuable data that will make a difference for the benefit of dogs (and maybe people) and we would be delighted if you would be willing to be a part of this.

Kind regards,

Matthew Breen *Jaime Modiano*
Matthew Breen, PhD and Jaime Modiano, VMD, PhD

Please reply to: info@breenlab.org



NC STATE UNIVERSITY BREEN-LAB



UNIVERSITY OF MINNESOTA MODIANO-LAB

SAMPLES NEEDED FOR ONGOING CANINE CANCER STUDIES

As part of ongoing research into the genomics and comparative aspects of canine cancer, the Breen Lab at North Carolina State University and the Modiano Lab at the University of Minnesota have been recruiting several cancer specimens for a specific range of dog breeds for over five years.

These studies have advanced significantly and we are beginning to report on these in the scientific literature and at scientific meetings. We are at stage now where we need to recruit blood and tumor samples from additional breeds of dog as per the attached list.

Key areas of research in both labs continue to focus on lymphoma, osteosarcoma and hemangiosarcoma. It is vital that we continue to recruit:

- 1) blood samples from cancer free 'seniors' of each breed listed
- 2) blood and tumor samples from cancer bearing dogs of each breed listed
- 3) blood samples from relatives of cancer bearing dogs of each breed listed

Progress is being made and with your help we can work to see the data we have already move in the direction of helping our pet dogs and maybe even humans.

Thank you for your help.

We appreciate the samples greatly.

Matthew Breen and *Jaime Modiano*

BREEN & MODIANO LAB CANINE CANCER STUDY

PLEASE SEND SAMPLES FROM THE FOLLOWING BREEDS:

Australian Shepherd
Bernese Mountain Dog
Border collie
Boxer
Briard
Bullmastiff
Cocker Spaniel
Flat-coated retriever
Golden retriever

Greyhound
Irish Setter
Labrador retriever
Mastiff
Old English Sheepdog
Poodle (all varieties)
Portuguese Water Dog
Rottweiler
Saluki
Viszla

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 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) 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 tops) kept cold in the 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 an empty sterile tube if no medium is available). 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 well sealed to prevent leakage →

Please ensure that each sample tube is labeled with the dog's first and last name, 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 →