# University of Missouri - Pomeranian Alopecia Survey

Registered name _____ Reg#_____
Call name _____ Birth date _____ Color _____
Male – Female Intact - Spayed/Neutered Age when altered _____
DNA sample sent to University of Missouri study? Yes No not yet

Owner name _____
Address_____
City_____ State _____ Zip_____
Phone_____ Email _____

**Please circle the best answer or answers, or fill in the blanks.**

Describe the *puppy* coat:

Amount: profuse normal sparse can't remember

Makeup: topcoat only topcoat & undercoat undercoat only

Texture: cottony harsh normal thin dry & bristly

Did this dog shed it's puppy coat? Yes No

If yes, at what age did it drop the puppy coat and grow adult coat?

_____ months can't remember.

Describe the *adult* coat:

Amount of top coat: profuse normal sparse none

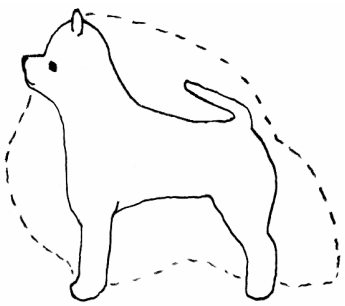
Quality of top coat: harsh soft mixed dry & bristly

Amount of undercoat: profuse normal sparse none

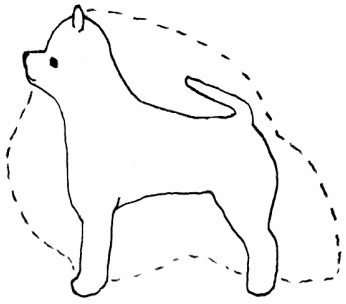
Quality of undercoat: soft too cottony too harsh

Is this dog normally coated today? Yes No

If no, please indicate areas of missing coat on drawings below.



**Initial coat loss**



**Maximum coat loss**

Did the dog lose enough coat to expose skin? Yes No

Age when coat loss began _____ Age at maximum hair loss _____

Was there a coat color change prior to or during hair loss? Yes No

Following the initial loss, has the lost coat ever regrown? Yes No

If yes, is the new hair normal texture harsher softer

What was the extent of the regrowth? complete partial

Was the regrowth of hair associated with any of the following events?

spay/neuter other surgery illness medication

breeding whelping weaning pups other _____

Is the regrown coat still present? Yes No
If yes, how long? _____ If no, how long until it was lost? _____

Diagnostic tests:

Thyroid: normal hypothyroid hyperthyroid not tested
CBC: normal abnormal not tested
General chemistry panel: normal abnormal not tested
Allergy panel: normal abnormal not tested
Skin parasites: normal abnormal not tested
Other _____: normal abnormal

Have any treatments been tried to make hair regrow?

Diet change: improvement no improvement not tried
Diet supplements: improvement no improvement not tried
Topical ointment or cream: improvement no improvement not tried
Shampoos: improvement no improvement not tried
other _____: improvement no improvement not tried

Information on relatives:

Is this dog's mother normally coated? Yes No Don't know
Is this dog's father normally coated? Yes No Don't know
Are male siblings normally coated? Yes No Don't know
Are female siblings normally coated? Yes No Don't know

Has this dog produced offspring? Yes No

If yes, how many litters? _____ Total # Males _____ Females_____

Do the offspring have normal coats?
Normal Males_____Males with hair loss _____
Normal Females _____ Females with hair loss _____
Coat status unknown for _____males, _____females

Additional comments (use back of page or attach additional sheets as needed).

# CANINE DNA RESEARCH

## Individual Dog Information

**Blood – Tissue – other** _____

Breed _____

Litter ID code:_____

Registered Name _____ Call name _____

AKC# _____ Birth Date _____ Male / Female - - Intact / Neutered

Sample Submission Date: _____ Color _____

Sample submitted for which research project? _____

Owner: name _____ Alternate _____

address _____ Contact _____

_____ _____

phone (day) _____ _____

phone (eve) _____ _____

fax _____ _____

e-mail _____ _____

Does this dog exhibit any of the following conditions? (*Please attach history for any Yes answer*)

| | | | |
|---|---|---|---|
| Y - N | Allergies | Y - N | Digestive difficulties |
| Y - N | Arthritis | Y - N | Heart Problems |
| Y - N | Autoimmune Disorders | Y - N | Hernia (where? _____ ) |
| Y - N | Bite or Tooth Abnormalities | Y - N | Reproductive Problems |
| Y - N | Cancer / Tumors | Y - N | Seizures |
| Y - N | Cataracts / Vision Problems | Y - N | Skin / Coat Problems |
| Y - N | Deafness / Hearing Impaired | Y - N | Skeletal Abnormalities (Hip Dysplasia, etc.) |
| other (please list): | | Y - N | Temperament Problems (shy, aggressive, etc.) |

Testing done on this dog:

| | | | | |
|---|---|---|---|---|
| OFA/PennHip | Y - N | age at test: _____ | result:_____ | #_____ |
| CERF | Y - N | age last tested:_____ | result:_____ | #_____ |
| Thyroid | Y - N | age last tested:_____ | result:_____ | |

other (please list):

Other Comments / Questions / Concerns?

Please circle your response to the following;

- I am / am not willing to provide additional blood samples if needed for research.
- I will / will not consider donation of a tissue sample (spleen, kidney, or liver) upon the death of this dog, and will discuss this decision with my veterinarian so that a notation is placed in my file.

I submit this sample and pedigree for the purpose of DNA research; I understand that the identity of dogs and owners participating in the research will not be revealed; and I have supplied complete and accurate information, to the best of my knowledge.

Signed: _____ date _____

# SAMPLE HANDLING

## For Canine DNA Research at the University of Missouri

***Blood Sample*** - The ideal sample for DNA extraction is 5-10cc's of whole blood, in purple-topped (EDTA) tubes. For very small dogs or puppies, 3ccs should be sufficient. The blood sample needs only to be put in 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.

***Frozen Semen*** - If there is frozen semen stored from sires or affected dogs, DNA can be extracted from it. Please send 2 straws. They do not need to be shipped frozen, but do pack them in a crush-proof container.

***Tissue Sample*** - Tissue removed as a result of surgery, or an organ sample upon death of the dog will provide a large amount of DNA for research. Please discuss this with your vet ahead of time if you intend to do this. (If the dog is to be euthanized, have a blood sample pulled first, if possible, and send both samples.) First choice is spleen, second choice kidney, and third choice is liver (a piece about the size of your thumb is all that is needed - not the entire organ). One tissue sample is sufficient. Have the organ removed as soon as possible following death, place into a labeled freezer bag, put that into a second bag, freeze, and ship.

***Label sample*** with the following;
call name - owner's last name
(If samples from several dogs are sent together, number samples and forms)

An ***Individual Dog Information form*** should be completed, and a ***pedigree copy*** must be included with the sample to tie it in with the correct family. If the dog is not affected but is a relative of an affected, please indicate the relationship.

***Shipping*** - Ideally the sample should be shipped immediately (with a tissue sample make certain it is completely frozen first). If samples are held for a day or over a weekend, blood must be refrigerated, and tissue samples 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 weekend, and the sample could be unusable by Monday. Pack 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 tissue samples be kept as frozen as possible.

**The delivery address is**;

Dr. Gary Johnson - (Breed of Dog) DNA Research
320 Connaway Hall
University of Missouri
Columbia, MO 65211

**If you need clarification**, or have any questions about any of these procedures, please contact Liz Hansen by phone (573-884-3712), email (HansenL@missouri.edu), or regular mail (321 Connaway Hall, University of Missouri, Columbia, MO 65211). Liz is Dr. Johnson's Project & Information Coordinator, and can help with any questions you may have.

***Thank you*** for your cooperation and participation!