

**Bearded Collie Addison's Disease and SLO Study**  
**Canine Genetic Analysis Project (CGAP)**  
Department of Animal Science, University of California, Davis  
Principal Investigators: Dr. A.M. Oberbauer and Dr. T.R. Famula  
Phone: 530-752-1046, FAX: 530-752-0175  
<http://cgap.ucdavis.edu/>

**Dog Information** *(Please include a pedigree)*

Dog's Registered Name: \_\_\_\_\_

Call Name: \_\_\_\_\_ AKC Registration #: \_\_\_\_\_ Date of Birth: \_\_\_\_\_

Coat Color: \_\_\_\_\_ Sex:  F  M Spayed/Neutered:  Yes  No Date of spay/neuter: \_\_\_\_\_

Sire's Name: \_\_\_\_\_ AKC Registration #: \_\_\_\_\_

Dam's Name: \_\_\_\_\_ AKC Registration #: \_\_\_\_\_

Was this dog produced by (check):  Natural breeding/fresh semen  Chilled AI  Frozen AI  Not sure

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**Owner Information**

Owner's Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

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**Health Information:**

Healthy:  YES  NO

General comments regarding your dog's health (allergies, arthritis, infections, surgeries, etc.):

\_\_\_\_\_

Is your dog taking any long term (>6 months) medications or supplements?  YES  NO

If yes, please indicate medications or supplements, dose and reason for taking. For example, Thyro-Tabs®/0.2mg daily/hypothyroidism, Cosequin®/1 tablet daily/arthritis.

\_\_\_\_\_

Has your dog been vaccinated for rabies?  YES  NO

At what interval is the rabies vaccine given?

Every year  Every 3 years  Never  The rabies vaccine is not available where I live

Other (explain): \_\_\_\_\_

**Addison's Disease Information:**

Addison's Disease:  **YES**     **NO** (continue to page 3)

Age at onset: \_\_\_\_\_years\_\_\_\_\_months

Age at diagnosis: \_\_\_\_\_years\_\_\_\_\_months

If your dog is spayed or neutered, was Addison's disease diagnosed (check)  **prior to** or  **after** spay or neuter?

What specific test was used to determine the diagnosis of Addison's disease? (check all that apply) Include copies of medical records pertinent to diagnosis and blood test results at the time of diagnosis. Your veterinarian can fax the information to the Oberbauer Lab, Department of Animal Science 530-752-0175.

- ACTH test**
- Complete blood count (CBC)**
- Electrolytes Na/K Ratio:** \_\_\_\_\_
- Ultrasound**
- Other (describe):** \_\_\_\_\_

Addison's diagnosis:

- Primary (both glucocorticoid and mineralocorticoid deficiencies)**
- Atypical (glucocorticoid deficiency)**
- Secondary (ACTH deficiency – low plasma ACTH detected)**
- Not Sure**

If your dog has Addison's disease, what symptoms prompted you to go to the vet? (check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> <b>Addisonian crisis (required immediate emergency treatment)</b>           | <input type="checkbox"/> <b>Lack of appetite</b>     |
| <input type="checkbox"/> <b>Bloody stool</b>   | <input type="checkbox"/> <b>Lethargy</b>             |
| <input type="checkbox"/> <b>Collapse</b>   | <input type="checkbox"/> <b>Low body temperature</b> |
| <input type="checkbox"/> <b>Depression</b>   | <input type="checkbox"/> <b>Shaking</b>              |
| <input type="checkbox"/> <b>Diarrhea</b>   | <input type="checkbox"/> <b>Weak pulse</b>           |
| <input type="checkbox"/> <b>Dehydration</b>  | <input type="checkbox"/> <b>Weight Loss</b>          |
| <input type="checkbox"/> <b>Hair loss</b>  | <input type="checkbox"/> <b>Vomiting</b>             |
| <input type="checkbox"/> <b>Hyperpigmentation of the skin (darkening and thickening of the skin)</b> |  |
| <input type="checkbox"/> <b>Increased thirst</b>   |  |
| <input type="checkbox"/> <b>Increased urination</b>  |  |
| <input type="checkbox"/> <b>Other (describe):</b> _____  |  |

List any medications your dog currently takes for Addison's disease (check all that apply):

- Dexamethasone**
- DOCP (Percorten-V™)**
- Fludrocortisone (Florinef™)**
- Prednisone/Prednisolone**
- Supplement (type):** \_\_\_\_\_
- Other (describe):** \_\_\_\_\_

Was your dog on any type of steroid treatment prior to diagnosis of Addison's disease?     **YES**     **NO**

Please indicate the type of steroid, the reason for steroid treatment and duration of treatment:

\_\_\_\_\_

**SLO Information:**

Symmetrical lupoid onychodystrophy:  **YES**  **NO** (continue to page 4)

Age at onset: \_\_\_\_\_ years \_\_\_\_\_ months

Age at diagnosis: \_\_\_\_\_ years \_\_\_\_\_ months

If your dog is spayed or neutered, was SLO diagnosed (check)  **prior to** or  **after** spay or neuter?

What were the initial signs of a nail problem? (check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> <b>Abnormal nail growth</b> | <input type="checkbox"/> <b>Offensive nail odor</b>              |
| <input type="checkbox"/> <b>Bleeding nails</b>       | <input type="checkbox"/> <b>Pain</b>                             |
| <input type="checkbox"/> <b>Brittle/soft nails</b>   | <input type="checkbox"/> <b>Persistent licking at feet/nails</b> |
| <input type="checkbox"/> <b>Infected nails</b>       | <input type="checkbox"/> <b>Shedding Nails</b>                   |
| <input type="checkbox"/> <b>Lameness</b>             | <input type="checkbox"/> <b>Split nails</b>                      |
| <input type="checkbox"/> <b>Loose nails</b>          | <input type="checkbox"/> <b>Other (describe):</b> _____          |
| <input type="checkbox"/> <b>Malformed nails</b>      |  |

How was SLO diagnosed? (check all that apply)

- Antinuclear antibody (ANA)**
- Bacterial culture**
- Blood chemistry**
- Biopsy – last digit of a toe or dew claw**
- Biopsy – nail punch**
- Biopsy – skin**
- Complete blood count (CBC)**
- Scrapings for fungal culture**
- Veterinary diagnosis based on clinical signs and treatment**
- None**
- Other (describe):** \_\_\_\_\_

Were there any environmental or stressful events preceding the onset? (check all that apply)

- Chemical exposure (lawn, tree spraying, house cleaners, indoor or outdoor pest control, etc.)**
- Heat (weather)**
- Illness (describe):** \_\_\_\_\_
- In season**
- Pregnancy**
- Rehoming or moving**
- Showing or trialing**
- Other stressors (describe):** \_\_\_\_\_

List any medications your dog has taken for SLO (check all that apply):

- |  |   |
|--|---|
| <input type="checkbox"/> <b>Biotin</b>   | <input type="checkbox"/> <b>Pentoxifylline</b>          |
| <input type="checkbox"/> <b>Doxycycline</b>  | <input type="checkbox"/> <b>Prednisone/Prednisolone</b> |
| <input type="checkbox"/> <b>EFAs (essential fatty acids or omega 3 and 6 oils)</b> | <input type="checkbox"/> <b>Tetracycline</b>            |
| <input type="checkbox"/> <b>Niacinamide (Vitamin B3)</b>                           |   |
| <input type="checkbox"/> <b>Vitamin E</b>  |   |
| <input type="checkbox"/> <b>Other (describe):</b> _____                            |   |

**Other Conditions:**

Has your dog been diagnosed with any other conditions listed below? (check all that apply)

- AIHA (autoimmune hemolytic anemia)
- Atopy
- Bacterial infection
- Bullous pemphigoid
- Cancer (type): \_\_\_\_\_
- Epilepsy
- Other (describe): \_\_\_\_\_
- None
- Fungal infection
- Hypothyroidism
- IBD (inflammatory bowel disease)
- ITP (idiopathic thrombocytopenia)
- Pemphigus vulgaris
- SLE (symmetrical lupus erythematosus)

- Age at diagnosis of the condition: \_\_\_\_\_ years \_\_\_\_\_ months
- What specific test was used to determine the diagnosis of the condition: \_\_\_\_\_

**Relatives:**

Check any relative(s) of your dog who also has Addison’s disease:

- Sibling
- Half-Sibling
- Sire
- Dam
- Grandparent
- Offspring
- Aunt/Uncle
- Niece/Nephew
- Don’t know

Please indicate registered name of relative(s) if known: \_\_\_\_\_

Check any relative(s) of your dog who also has SLO:

- Sibling
- Half-Sibling
- Sire
- Dam
- Grandparent
- Offspring
- Aunt/Uncle
- Niece/Nephew
- Don’t know

Please indicate registered name of relative(s) if known: \_\_\_\_\_

Check any relative(s) of your dog who has an autoimmune condition other than Addison’s disease:

- Sibling
- Half-Sibling
- Sire
- Dam
- Grandparent
- Offspring
- Aunt/Uncle
- Niece/Nephew
- Don’t know

Please indicate the autoimmune condition(s): \_\_\_\_\_

Please indicate registered name of relative(s) if known: \_\_\_\_\_

**Genotype Data**

If your dog has genotype data in the form of a zip file (tfam/tped files) and you would be willing to send the data to our study, please email the file to [jmbelanger@ucdavis.edu](mailto:jmbelanger@ucdavis.edu) Please include dog’s name, owner name and data id for each data file submission.

Owner Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Check here if you agree to donate the excess DNA not used directly in this study to the CHIC DNA Repository. If so, download and complete the CHIC DNA Repository form under Miscellaneous Forms at <https://ofa.org/applications/> Send the CHIC DNA Repository application and the health survey along with the CGAP questionnaire and the pedigree with this sample. Note there is no fee associated with CHIC submission when the excess DNA is submitted through CGAP.

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**OWNER CONSENT FORM**

**PURPOSE OF STUDY**

I hereby grant permission for my dog to participate in a study designed to collect DNA from dogs and their relatives to study various diseases including, but not limited to Addison's disease and Epilepsy, in order to determine the genetic basis for these diseases. This protocol has been ethically reviewed by the UC Davis Institutional Animal Care and Use Committee (IACUC), Protocol #23674.

**CONSENT FOR PROCEDURE**

I consent to the use of blood samples for this project, and appropriate future projects, and I will provide a pedigree with the sample, provided that neither my animal nor I will be identified in any publications, reports, or presentations.

**RISKS ASSOCIATED WITH PROCEDURE**

The risk involved in drawing blood is minimal. However, I do understand that my dog may experience mild redness or bruising at the collection site. Additionally, the veterinarian I have chosen to do this procedure may clip the hair to facilitate visualization of the vein. The veterinarian who will be performing this procedure is the veterinarian of my choice, and I will not hold the University of California Davis responsible for any complications associated with drawing the blood.

**POTENTIAL BENEFITS**

I understand that there is no guarantee that my dog will benefit from its participation in this study. However, such participation may provide veterinarians and researchers with additional information and a better understanding of canine diseases, which could ultimately influence the course of treatment or genetic testing to help my dog and other animals in the future.

**COSTS TO OWNER**

There is no fee for participating in this study. In the event that DNA from my dog is used in the development of commercially available diagnostic markers, I understand and agree that any proceeds or benefits from such development are the sole and exclusive property of University of California, Davis. I also understand that the University of California will not cover any charges that may be incurred for the drawing of blood or shipment of samples. If this dog's sample is directly used in the development of a genetic test associated with this disorder, upon the owner's written request after the test becomes commercially available, the results of the test for this dog will be provided to the owner at no cost.

**CONFIDENTIALITY**

I understand that any information about my dog, obtained from this study, will be kept confidential.

**AUTHORIZATION**

I hereby donate, assign, and transfer a DNA sample from my dog to CGAP for research purposes and warrant my authority to do so. I understand that any future use or distribution of this DNA sample will be within the sole direction and authority of CGAP. I further understand that any distribution of samples to researchers will be in a blind format that maintains the anonymity of the dog and owner identities. My intent in providing this DNA sample is to further research into canine health issues. I hereby relinquish all rights to, and ownership of the DNA sample. I have read and understand the foregoing statements and agree to allow my dog to participate in this study. To the best of my knowledge, the information I have supplied is true and accurate.

Owner Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Owner Printed Name

\_\_\_\_\_  
Date of Blood/Buccal Collection

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**Canine Buccal Swab Submission (swab kit request at <http://cgap.ucdavis.edu/>)**

(Please use all 3 brushes for each dog being submitted)

1. If the dog has been eating or drinking, wait 10-15 minutes before taking samples.
2. Sample one dog at a time. If you are sampling several dogs in the same session, complete the process for one dog before sampling the next dog.
3. Before opening or collecting sample, label each wrapper of the 3 brushes with **the name of the dog** to be sampled and **the date of collection**.
4. Peel open the top of the wrapper and remove the brush by its handle.
5. Place the bristle head against the inside of the dog's cheek and swirl 10 times. Please be vigorous, since these are the only samples we will have for the dogs. Please take each sample from a **different location** on the cheek.
6. **Allow swabs to air dry for 5 minutes.** Carefully return each swab to its original wrapper.
7. Fold over the end of the wrapper and seal with a paperclip or staple (do not use tape). **Do not** place samples in a Ziploc® bag.
8. If you are sending only swab samples, return samples and appropriate forms via regular mail in the enclosed self-addressed, postage paid envelope (U.S. residents only).

**Blood Sample Collection and Shipping Procedures (Preferred Sample Submission)**

1. Please collect 2 purple-top (EDTA) tubes with 2cc (2ml) in each tube. Rock the tubes gently (do not centrifuge).
2. Label each sample with the dog's registered name, owner's last name and date. Wrap tubes in paper towels and place the blood tubes in a plastic bag, sealing the bag securely.
3. Place the samples in a sturdy box, packed so that the blood tubes do not move around (bubble wrap).
4. Include the completed questionnaire, pedigree and signed owner consent form.
5. The ideal shipping method is to keep the samples cold (ice pack) in an insulated, leak-proof container and ship via FedEx or UPS immediately following collection to arrive within 2 days of collection. Refrigerate the sample until it can be shipped. **DO NOT freeze the sample at any time. For USPS, please send samples on ice packs priority 1-2 day service. Samples shipped via USPS are only delivered Monday, Wednesday and Friday mornings. Samples from other couriers can be delivered weekdays (Monday – Friday). Campus is closed on weekends and holidays. Samples may be compromised if they are shipped on a Friday to arrive on a Monday due to inadequate storage at courier facilities. Shipping containers cannot be returned.** For international submissions, please check with your local courier for requirements and/or restrictions on sending biological samples and include CGAP's Declaration of Material Shipped Form with the samples.
6. For FedEx or UPS shipments, please email [jmbelanger@ucdavis.edu](mailto:jmbelanger@ucdavis.edu) with date of shipment and tracking#.

**Please write "Refrigerate Upon Arrival" on the outside of the box and ship to:**

Oberbauer Lab  
Canine Genetic Analysis Project  
Department of Animal Science  
University of California  
2251 Meyer Hall  
450 Bioletti Way  
Davis, CA 95616-8521  
Phone: 530-752-1046

**UC Davis Campus Holidays/Closures:** Note that campus receives USPS mail on Monday, Wednesday and Friday mornings only.

2023 January 2, January 16, February 20, March 31, May 29, June 19, July 4, September 4, November 10, November 23-24, December 25-26

2024 January 1-2, January 15, February 19, March 29, May 27, June 19, July 4, September 2, November 11, November 28-29, December 24-25, 31

2025 January 1, January 20, February 17, March 28, May 26, June 19, July 4, September 1, November 11, November 27-28, December 24-25, 31

**UNIVERSITY OF CALIFORNIA, DAVIS**  
DEPARTMENT OF ANIMAL SCIENCE  
ONE SHIELDS AVENUE  
DAVIS, CALIFORNIA 95616-8521  
(530) 752-1250 (Animal Science)  
(530) 752-0175 (Fax)  
**Canine Genetic Analysis Project (CGAP)**

**Declaration of Material Shipped for  
International Submissions Only**

To comply with United States Federal Guidelines for the importation of research samples from dogs, please complete the form below and include with the samples upon return. Thank You.

Shipper's Name (print): \_\_\_\_\_

Sample Type (check):  Buccal Swab  Blood

Species: Canine

I declare that the enclosed sample(s) contain only material derived from dogs and does not contain any other animal derived material (i.e., nothing from livestock or poultry), nor were the dog(s) sampled exposed or inoculated to any infectious agents of agricultural concern.

Signature of Shipper: \_\_\_\_\_

Date: \_\_\_\_\_