Communication

Molecular mapping and characterization of the genetic modifier associated with Collie Eye Anomaly (CEA) - progress report

Mon Jun 17, 2024

After communication between Prof Aguirre and the breeders after the last cocktail seminar (April 4 in Peoria, Illinois), it came to our attention that many asked about which CEA test carried out by third parties we are familiar with.

Overall, result obtained from platforms able to offer the CEA test is accepted (we are familiar with UC Davis, Embark, Pawprint, Cambridge University, Wisdom Health).

We are aware the foundation is partnering with UC Davis VGL as primary testing facility, and that the foundation is supporting the breeders with a subsidy of $100 for their Collie panel and that UC Davis offers the CEA test separately if needed.

Therefore, it's probably in the breeders' interest to use UC Davis or wisdom Health

In addition, please send and adult eye check for any dog over six months old that was not graded with a Coloboma at their puppy eye exam by a Veterinary Ophthalmologist.

Of note, the Sample submission sheet has been updated accordingly.



Inherited Eye Disease Research Sample Form and Information

(This sample contains *non-contagious, nonhazardous canine blood for research).*

INSTRUCTIONS: In addition to collecting **3-5 ml of whole unclotted blood in a purple capped EDTA** tube from each dog, please include this paperwork in your sample submission:

- Completed Inherited Eye Disease Research Sample form by owner
- 5-6 generation pedigree of the dog
- Current and any/all previous ophthalmology eye exams on the dog **AND**
- CEA genetic eye test results. *Both the physical eye exam and genetic exam results MUST be included.*

Please ship on **Monday, Tuesday, or Wednesday** to assure your sample will arrive well before a weekend. The blood and paperwork should be sent with a small ice pack *overnight air* via UPS or FedEx to:

Leonardo Murgiano c/o Jessica Niggel
School of Veterinary Medicine
University of Pennsylvania
3900 Delancey Street. Ryan #2050 Philadelphia PA 19104 6010.

215-898-5452 jniggel@vet.upenn.edu

• The blood vial should be protected from breakage during shipping. Place the blood tube inside a sealed plastic bag (or other sealed container).
• Include absorbent material (e.g. paper towel) inside the plastic bag.
• Outside package: Clearly labeled "EXEMPT ANIMAL SPECIMEN"
• Inside package: Place all paperwork required in a large Ziplock bag. All the above-mentioned **paperwork MUST accompany sample.**

OWNER Information

Name: _____
Address: _____
City: _____State/Province: _____
Country: _____ Zip/Postal Code _____
Day Phone: _____ Evening Phone: _____
Fax: _____ Email: _____

DOG IDENTIFICATION (Indicate "N/A" if question not applicable)

Breed: COLLIE_____ Call Name: _____

Registered Name: _____

Registration #: _____

Birthdate: ____/____/____ (mo./day/yr.) Sex: ___Female ___Male Registered

Name of Sire:

_____ Registered

Number of Sire:

_____ Registered

Name of Dam:

_____ Registered

Number of Dam:

_____

DISEASE HISTORY:

Type of disease (e.g. Glaucoma, PRA, etc.) _____