



**CHIC DNA Repository**  
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**Office  
Use  
Only**

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## Application for DNA Repository

\* Please type or print legibly. To ensure accuracy please enclose copy of the dog's registration papers \*

|   |  |
|---|--|
| previous application number (if any)  | registration number <input type="checkbox"/> AKC <input type="checkbox"/> CKC <input type="checkbox"/> Other _____ |
| registered name   | sex _____ Color _____  |
| breed   | date of birth (month-day-year)   |
| ID number (required) <input type="checkbox"/> Tattoo <input type="checkbox"/> Microchip | registration number of sire _____ registration number of dam _____   |
| owner name  | co-owner name _____  |
| Street Address  | owner email _____  |
| city _____ state/province _____ zip/postal code _____                                   | owner phone _____  |

Upon receipt and processing of this application, the owner will receive a Sample Submission Kit depending on the option selected below.

**DO NOT SUBMIT SAMPLE WITH THIS INITIAL APPLICATION.**

See back of this sheet for information on the Mission and Objectives of this project, as well as information on blood versus swab-based collections.

### Sample Submission Kit Order

- Swab Based Collection Kit** ..... \$5.00  
*(includes 5 cheek swabs, 4 to be submitted, 1 may be retained by the owner for self storage, collection instructions, health survey, mailing labels)*
- Blood Collection Kit** ..... \$20.00  
*(includes 1 cheek swab for owner self storage, collection instructions, health survey, mailing labels)*

#### DNA Sample Submission Agreement

I hereby donate, assign, and transfer a DNA sample of the dog named above to the CHIC DNA Repository 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 the CHIC DNA Repository. 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. If a researcher requires further information regarding an individual dog, owner contact will be initiated through CHIC. 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.

\_\_\_\_\_  
Signature of owner/agent

\_\_\_\_\_  
Date

## **Mission Statement**

The CHIC DNA Repository, co-sponsored by the OFA and the AKC/CHF, collects and stores canine DNA samples along with corresponding genealogic and phenotypic information to facilitate future research and testing aimed at reducing the incidence of inherited disease in dogs.

## **Objectives**

- Facilitate more rapid research progress by expediting the sample collection process
- Provide researchers with optimized family groups needed for research
- Allow breeders to take advantage of future DNA based disease tests as they become available
- Foster a team environment between breeders/owners and the research community improving the likelihood of genetic discovery

## **Submission by Blood Sample**

Blood is the gold standard for genetic material; the yield of DNA is sufficient for all research methods, including technologies on the horizon. Moreover, the stability and purity of the DNA is of the highest caliber, which offers many benefits. The drawback of banking blood samples is cost — drawing, shipping, storing, and extracting DNA from blood are more expensive endeavors than the alternative.

## **Submission by Cheek Swab**

Cheek swab-derived DNA is a viable option for DNA banking. Although the yield and purity of this DNA is inferior to that obtained from blood, the material is suitable for most genetic approaches. The swabs are inexpensive, and the samples can be taken by the owner of the dog without the necessity of a veterinary office call. Swabs are easily shipped in standard envelopes using the postal mail, and they can be stored for at least a decade at room temperature, so long as they are stored under conditions of low humidity. The success rate for obtaining DNA from a swab in the laboratory is roughly 98%, so multiple swabs should be submitted for each dog to ensure representation in the archive.

## **Laboratories**

The CHIC DNA Repository has partnered with the Veterinary Genetics Lab at the University of California–Davis and the Animal Molecular Genetics Lab at the University of Missouri. UC Davis will receive and store all swab samples, and Missouri will receive and store all blood samples.