



**CHIC DNA Repository**  
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 www.caninehealthinfo.org

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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** ..... ~~\$10.00~~  
*(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** ..... ~~\$25.00~~  
*(includes 1 cheek swab for owner self storage, collection instructions, health survey, mailing labels)*

**FREE during  
Pilot Phase**

### Sample Submission Agreement

I wish to participate in the CHIC DNA Repository by submitting a genetic sample of the dog named above. I understand that any future distribution of the sample for research purposes will be at the sole discretion of the CHIC DNA Repository. I understand that all samples provided to researchers will be distributed in a blind format maintaining the anonymity of the dog and owner identities. In submitting the sample, I do so for the pure purpose of furthering research benefiting canine health and relinquish any rights or benefits resulting from the use of the 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.