

# Canine Genetic Research Participation

## DNA Samples Needed

The Canine Genetics Lab of Dr. Kari Ekenstedt is conducting research on dog skeletal morphology.

DNA samples and chest X-rays from the following purebred dog breeds are needed:



-French Bulldogs

-Pugs

-English Bulldogs

-American Bulldogs

-Boston Terriers

-Basenjis

-Shiba Inus

-Keeshonds

-Chow Chows

-Norwegian Elkhounds



Your dog **must have two X-ray views of the chest (as shown below).**

If your dog has chest X-rays (images of the spine from the neck to the back, including the ribs) on file with your veterinarian, you can ask them to send the digital X-rays to us at Purdue Veterinary College — there is **no cost for this**. Once we receive the X-rays, we will send you the materials and instructions to collect a DNA sample from your dog.

Your dog may **already have chest X-rays on file** for various reasons, such as:

- Swallowed foreign body
- Breathing difficulties
- Heart or lung evaluation
- Metastasis checks
- Many other medical concerns



Example of two view chest X-rays:



Berry CR and Graham JP. Thoracic Radiology. University of Florida College of Veterinary Medicine, 2017.

Dogs of **any age and health status** qualify.

Please email [caninegeneticslab@purdue.edu](mailto:caninegeneticslab@purdue.edu) for more information on the study and to submit X-rays.