

NEWFOUNDLAND CLUB OF AMERICA

Breeder's Corner



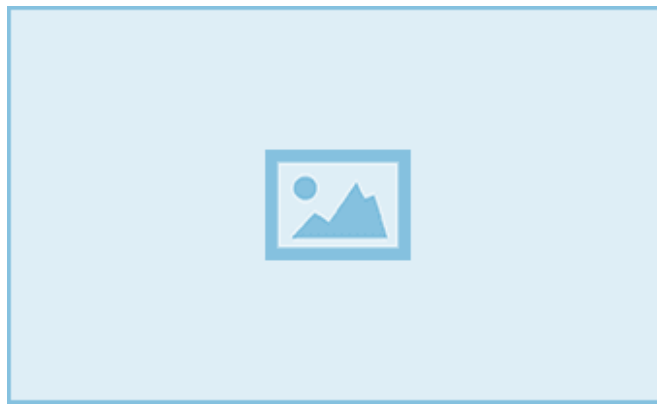
Understanding Genome-wide association studies and genetic testing



Dog owners are increasingly interested in using commercially available testing panels to learn about the genetics of their pets, both to identify breed ancestry and to screen for specific genetic diseases. Helping owners interpret and understand results from genetic screening panels is becoming an important issue facing

veterinarians. The objective of this review article is to introduce basic concepts behind genetic studies and current genetic screening tests while highlighting their value in veterinary medicine. The potential uses and limitations of commercially available genetic testing panels as screening tests are discussed, including appropriate cautions regarding the interpretation of results. Future directions, particularly with regard to the study of common complex genetic diseases, are also described.

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Benefits of Canine DNA Testing

Learning about your dog's genome can be fun and reveal valuable information about their health. It can feel trendy to send a swab of your dog's cheek cells to determine their background - the canine version of a genealogy test. But genetic...

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What Genetic Testing Can and Can't Tell You About Your Pet

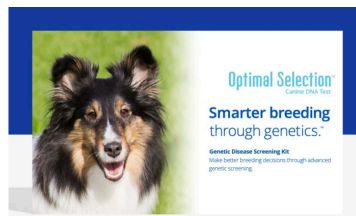
Genetic (or DNA) testing is an easy way to uncover valuable information about your pet- from parentage identification to health screening. UC Davis helped pioneer animal genetic testing in the 1960s and is internationally recognized as an expert...

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Sources For Full Panel DNA Testing



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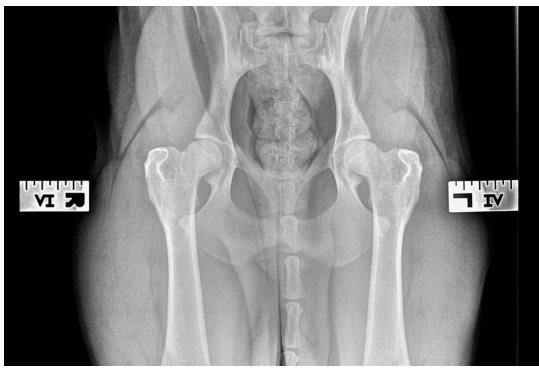


[Wisdom Panel](#)



[AKC DNA + Health](#)

Pre Breeding Health Tests - OFA vs PennHip



PennHIP and OFA screening are the primary methods of assessing hip health for breeders. PennHIP screening measures joint laxity (known as the distractive index) as well as the conformation of the hip joint, but only gives a percentile index for joint laxity because evaluating hip conformation is somewhat subjective and so more difficult to score without bias. The higher the distractive index, the laxer the joint, and thus an increasing probability of developing degenerative joint disease known as hip

dysplasia. OFA evaluates hip conformation and looks for signs of hip dysplasia or arthritis and gives a grade based on 3 radiologists' subjective interpretation.

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Genetic Testing in Dogs - an Overview

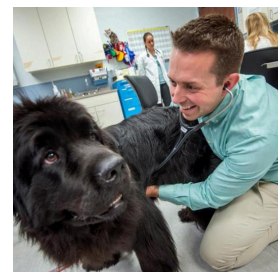
by Claire Wiley, VMD, DACVIM (Small Animal Internal Medicine) Executive Director, AKC DNA Program Since the domestication of dogs, breeders have been striving

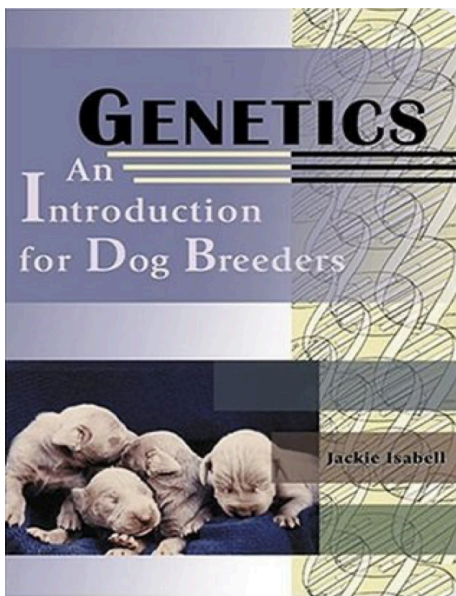
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Continuing Education - AKC Educated Breeder Webinar Series presents "Analyzing the Heartbeat"

Join Dr. Heidi Kelliham for a break down on OFA Cardiac Examinations done on your breeding stock. She will share cardiac abnormalities that a Cardiologist screens for when performing OFA Cardiac Basic and Advanced examinations.

[Register Online](#)





Genetics, An Introduction for Dog Breeders

A comprehensive yet easy-to-understand guide the nature of heredity, evolutionary and behavioral genetics, the application of genetics to specific breeds, the art of breed selection, breeding for coat color and type, improving structural traits, how to control genetic disorders, evaluating the results, current genetic research, terminology, and a catalog of known congenital and hereditary disorders by breed.

[Buy The Book](#)



Studies Enrolling Participants

COED study (Canine Osteosarcoma Early Detection)

This study is designed to develop a reliable, minimally invasive blood-based test for early detection and risk assessment of canine osteosarcoma. Such a test could then be combined with strategic and rationally designed treatments to kill the tumors before they form. Since all large and giant dogs have an elevated risk of bone cancer, this work has the potential to benefit a multitude of breeds, as well as mixed-breed dogs. This study will recruit up to 400 large-breed dogs from a variety of backgrounds.

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Puppy Referral System

The NCA has a Puppy Referral System. This program allows any NCA member to list a planned litter, puppies available or an adult needing placement. Listings are now available to all NCA members. If you have questions or suggestions about the program, please [let us know](#).

[Start a New Listing](#)



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