

Comparison of Give a Dog a Genome and Future AHT SA research

Name	Give a Dog a Genome (GDG)	AHT SA Research
Goals & Objective of Study	To increase our understanding of the canine genome and to provide genome information to other researchers studying canine genetic illness.	To identify the genetics variants involved in producing Sebaceous Adenitis (SA) in Japanese Akita Inus.
Breed Scope	77 different breeds. The Japanese Akita Inu is part of Phase 1 study	Japanese Akita Inu only
Website	http://www.aht.org.uk/gdg	TBD
Lead Researcher Profile	Cathryn Mellersh , Animal Health Trust, Head of Canine Genetics	Cathryn Mellersh Animal Health Trust, Head of Canine Genetics
Methodology	Full Genome sequencing of 1 Akita Inu with SA	<ul style="list-style-type: none"> Genome-wide association study (GWAS) 2 additional Full Genome sequences
Number of Samples Required	1 dog	<ul style="list-style-type: none"> At least 50 SA Free samples from dogs over the age of 8 years At least 50 SA affected samples
Sample Collection Status	Completed	Not started
Budget	£2,000 total (for Japanese Akita Inu only)	£14,000 total <ul style="list-style-type: none"> £10,000 for 100 dog GWAS Study £4,000 for 2 x Full Genome Sequence
Funding sources	50-50 Jointly funded by the UK Kennel Club and the Japanese Akita Inu Club (JAIC)	Jointly via Japanese Akita Inu Club (JAIC) and the Japanese Akita Club of America (JACA)
Funding status	100% funded	Fundraising effort ongoing
High Level Study Status	Testing completed, awaiting analysis	Not started, but can use the results and samples submitted for the Give a Dog a Genome study for a head start