

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

Name	Give a Dog a Genome (GDG)	AHT SA Research
<b>Goals &amp; Objective of Study</b>	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.
<b>Breed Scope</b>	77 different breeds. The Japanese Akita Inu is part of Phase 1 study	Japanese Akita Inu only
<b>Website</b>	<a href="http://www.aht.org.uk/gdg">http://www.aht.org.uk/gdg</a>	TBD
<b>Lead Researcher Profile</b>	<a href="#">Cathryn Mellersh</a> , Animal Health Trust, Head of Canine Genetics	<a href="#">Cathryn Mellersh</a> Animal Health Trust, Head of Canine Genetics
<b>Methodology</b>	Full Genome sequencing of 1 Akita Inu with SA	<ul style="list-style-type: none"> <li>Genome-wide association study (GWAS)</li> <li>2 additional Full Genome sequences</li> </ul>
<b>Number of Samples Required</b>	1 dog	<ul style="list-style-type: none"> <li>At least 50 SA Free samples from dogs over the age of 8 years</li> <li>At least 50 SA affected samples</li> </ul>
<b>Sample Collection Status</b>	<b>Completed</b>	<b>Not started</b>
<b>Budget</b>	£2,000 total (for Japanese Akita Inu only)	£14,000 total <ul style="list-style-type: none"> <li>£10,000 for 100 dog GWAS Study</li> <li>£4,000 for 2 x Full Genome Sequence</li> </ul>
<b>Funding sources</b>	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)
<b>Funding status</b>	<b>100% funded</b>	<b>Fundraising effort ongoing</b>
<b>High Level Study Status</b>	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