



What is the Fertility Haplotype Research Project?

Haplotypes are chunks of DNA that are inherited together and passed on to the next generations. The haplotypes observed in a population can have positive or negative effects, and some can be lethal. The Fertility Haplotype Project aims to detect haplotypes with lethal potential that affect the fertility of cows in the Angus population.

While the negative effects of some haplotypes affecting fertility are easier to detect in the population, others might be hidden under other conditions such as miscarriages, failure to conceive or premature births. In some cases, the negative haplotype can also be observed as deficient embryonic evolution or poor development of the fetus and resulting calves can be either stillborn or die soon after birth.

Are haplotypes a genetic condition?

A genetic condition identifies the causative mutation. A haplotype does not. Instead, knowledge of haplotype status, once released by AGI, will be a herd management tool to allow matings that reduce an undesirable trait such as early embryonic loss. Using haplotypes as a breeding management tool allows breeders to simply reduce their frequency without having to shoulder a large financial loss from eliminating these genetics altogether.

Why should you collect DNA samples and report dead calves?

Haplotypes under investigation may have different effects based on their location including stillbirths or early calf death. Having a DNA sample on those calves allows us to be more precise on the identification and better understand the haplotype effect.

How can I submit the DNA samples and calf death report?

DNA samples will be collected using the standard collection method; however, a tissue sampling unit would be preferred. Visit www.angus.org/AGI and find the Submitting Samples tab for a step-by step guide to DNA sample submission. The American Angus Association and Angus Genetics Inc. are committed to assisting the membership with the collection of this valuable data. Therefore, all DNA samples collected to test deceased cattle for the Fertility Haplotype Project will be processed free of charge. Parentage information can be provided, but no GE-EPDs will be predicted.

If you have any further questions about haplotypes, contact the American Angus Association at (816) 383-5100

I hereby certify that I have identified the animals to be tested by means of the certification of registration and that each sample submitted herewith were taken and submitted in accordance with the DNA Sample Collection and Shipment Instructions*. I understand that AAA's acceptance of this order is conditioned upon my agreement with the DNA Testing Terms and Conditions* and I do hereby agree to all of the DNA Testing Terms and Conditions. Without limiting the foregoing, I specifically acknowledge and agree that the test results and associated performance values will be provided to AAA for publication and inclusion on any applicable animal registration records. The DNA samples, test results, and any information, data and intellectual property developed in relation to the samples or test results will be owned exclusively by AAA or AGI as applicable. The DNA samples, test results and associated data and information (e.g. phenotypic data and performance values) may be used or disclosed for any purpose as AAA sees fit including, without limitation, parentage verification, genetic defect testing and reporting, research and development, commercialization and breed improvement programs. AGI, AAA and the testing laboratory shall have no liability or responsibility for the usefulness, reliability, accuracy, completeness or timeliness of the tests, tests results or associated data or information. In no event shall AGI, AAA or the testing laboratory be liable for any damages, losses or injuries arising out of or in any way connected with the tests, test results or associated data or information. *The DNA Sample Collection and Shipment Instructions and the DNA Testing Terms and Conditions are posted on the AAA website at www.angus.org and can be sent to you in the mail upon request by calling.



Haplotype Research Calf Death Report



Member or Affiliate Code (if available): _____

Name: _____

Phone Number: _____

Address: _____

City, State: _____

Zip: _____

Information on Calf

Calf ID Num (if available)	Barcode	Parents Reg Num	Sex	DOB	Type of Death	Date of Death
		Sire _____	<input type="checkbox"/> B		<input type="checkbox"/> Aborted <input type="checkbox"/> Stillborn <input type="checkbox"/> Early death (pre-wean)	
		Dam _____	<input type="checkbox"/> C			

Symptoms/Problems observed (select all that apply)

General	Muscles	Head	Bones and joints	Others
<input type="checkbox"/> Dwarf	<input type="checkbox"/> Spasms	<input type="checkbox"/> Small	<input type="checkbox"/> Short spine	<input type="checkbox"/> Abnormal hair texture
<input type="checkbox"/> Doesn't move	<input type="checkbox"/> Cannot stand	<input type="checkbox"/> Enlarged	<input type="checkbox"/> Curved spine	<input type="checkbox"/> Umbilical hernia
		<input type="checkbox"/> Depression on skull	<input type="checkbox"/> Stiff joints	<input type="checkbox"/> Mouth doesn't open

Notes:

Please provide pictures if available

PRINT THIS FORM AND SHIP THE SAMPLE TO:

AGI | 3201 FREDERICK AVE. | SAINT JOSEPH, MO 64506

Signature: _____ Date: _____

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