

HAPLOTYPE TESTS PUBLICATION POLICY

This policy for regulating the publication of new haplotype tests was approved by the CDCB Board of Directors on 04/22/2020.

1. POLICY STATEMENT

The Council on Dairy Cattle Breeding (CDCB) routinely performs haplotype tests to identify new recessive disorders and to track the carrier status of genotyped animals following the methodology proposed by VanRaden et al. (2011). As research for development of new haplotype tests utilizes the National Cooperator Database and impacts all member sectors, this policy addresses the process of approval and publication of new haplotype tests by CDCB after research is concluded.

2. PUBLICATION PROCESS

In order to be included in the list of haplotype tests published by the CDCB (Cole et al., 2018), new tests must undergo through the following process:

- Be presented and discussed with all member sectors impacted by the potential new service. For instance, if the test applies to a specific dairy breed, the respective breed association needs to be involved in the process. In case of agreement to publish the novel haplotype, each sector will produce a formal recommendation to the CDCB Board of Directors.
- AGIL researchers should be part of the review even if they are not actively involved with the research process.
- All the CDCB member sectors will be informed of the ongoing process through their representatives sitting on the CDCB Board of directors.
- Each of the CDCB sectors can send a formal request of revision to the CDCB Technical Director, requesting further information or analyses to clarify the concerns. The outcome of the revision, if any, will be assessed by the Genetic Evaluation Methods (GEM) committee, which will compile a final set of recommendations to the CDCB board of directors.
- After final decision from the CDCB board of directors, CDCB staff will be responsible to incorporate the new test into routine operations, communicate with all collaborators about the upcoming change and launch the service along with sufficient communication to the final users.

3. REFERENCES

Cole, J.B., VanRaden, P.M., Null, D.J., Hutchison, J.L., Cooper, T.A. and Hubbard, S.M. Updated Dec. 1, 2018. [Haplotype tests for recessive disorders that affect fertility and other traits](#) . AIP Research Report Genomic3 (09-13).

VanRaden, P.M., K.M. Olson, D.J. Null, and J.L. Hutchison. 2011. [Harmful recessive effects on fertility detected by absence of homozygous haplotypes](#). J. Dairy Sci. 94:6153–6161.