



Applied Genetics of Companion Animals Committee

07 October 2016

The International Society of Animal Genetics (ISAG) hosts genetic comparison tests and workshops for a variety of animal species. These workshops and the function of the comparison tests are meant to share genetic resources between participating laboratories so that DNA genotyping results can be standardized for any given species, by any laboratory around the world, thereby generating comparable data. Each species' workshop selects a standard set of markers that are commonly referred to as the ISAG Core Reference Panel, for any given species.

For the domestic dog, 20 short tandem repeat (STR) genetic markers and one gender marker (*Amelogenin*) have been accepted as the ISAG Canine Core Reference Panel. A majority of these markers are available in standardized commercial kits that can be purchased by genetic testing service laboratories. A laboratory may have financial limitations that prevent the testing of all 21 canine core markers included in the hosted ISAG comparison tests, however, a vast majority of markers may have been genotyped during participation in a comparison test. Thus, ISAG recognizes the proficiency of these laboratories and offers this statement as proof that a genetic testing service laboratory has participated in the ISAG-sponsored Canine Comparison Test and has completed the testing with the following proficiency:

The 2015 – 2016 Canine Comparison Test has been completed by:

Vemodia a.s. of Prague, Czech Republic

Nineteen of twenty-one markers of the Canine Core Reference Panel were successfully genotyped, including markers:

AHT121, AHT137, AHT171, AHT260, AHTk211, AHTk253, AMEL, CXX279, FH2054, FH2848, INRA21, INU005, INU030, INU055, REN162C04, REN169D01, REN169O18, REN247M23, REN54P11.

These 19 markers were genotyped with **100% accuracy** as determined during the 2015 – 2016 ISAG Canine Comparison Test.

On behalf of ISAG,

Leslie A. Lyons, PhD

Co-chair: Applied Genetics in Companion Animal Workshop 2015 - 2016

ISAG is a scientific society that provides a forum for the exchange of information, methods and materials between members and for standardization of genotyping nomenclature. ISAG is not involved in the accreditation of service genotyping laboratories or institutions and ISAG does not regard participation in its Comparison Tests as indicating that a laboratory is internationally accredited. This document reflects the laboratory performance in the specific comparison test. Modification of this document is not permitted.