

Illawarra Cattle Society of Australia DNA Policy

In an effort to maintain the most accurate and useful genetic information on Illawarra cattle, the ICSA has enacted the following DNA Testing Policies, effective on January 1, 2018. These are an attempt to improve the genetic database we have available as a breed registry, as well as furthering the integrity of our breeders.

1. All matters of identification and parentage will be accepted as official as determined by the designated laboratory.
 - a) Genotype and/or DNA results must meet ISAG (International Society for Animal Genetics) standards of parentage affirmation for animals typed through a laboratory retained by ICSA.
 - b) Until further notice, the ICSA has retained the service of the Veterinary Science laboratory, University of Queensland for all DNA typing and parentage verification.

2. Testing can be initiated by:
 - a) Breeder Inquiry: Any breeder/owner can request a test kit from ICSA for testing of animals in their herd. These results will be kept on file with the ICSA. All expenses to be paid by the breeder/owner.
 - b) Bulls: All bulls must be genotyped or DNA typed before a registration paper is returned to the breeder/owner. The owner of the bull will be responsible for all expenses for meeting these requirements.
 - c) President: Any animal sold, or exhibited, as registered by the ICSA can be genotyped or DNA typed at the discretion of the President. All expenses to be paid by ICSA.
 - d) Breeder Protest: If a party other than the owner requests the President to test an animal for any reason, the person requesting the examination must first post a \$100 bond with the President. All testing expenses to be paid by ICSA.
 - I. If the parental identification of the animal tested does not match registration records the bond is returned to the person requesting the test.
 - II. If the parental identification of the animal tested matches registration records the bond is forfeited and deposited in the general fund of the ICSA.

- e) Embryo Transfer: All calves born as a result of embryo transfer shall be DNA tested, with parentage verification, before a registration paper is issued. The breeder/owner is responsible for this cost.
 - f) Royal Show Champions: Animals winning one of the following titles at a Royal show or International Dairy Week, must be genotyped or DNA typed to maintain their title. All expenses to be paid by ICSA.
 - I. Junior Champion
 - II. Intermediate Champion
 - III. Senior Champion
3. Sampling Process- To ensure accuracy of samples and to protect both ICSA and the breeders/owners the following requirements will be adhered to:
- a) Breeder Inquiry, Bulls & Embryo Transfer: Samples may be collected by breeder/owner or their chosen representative.
 - b) President, Breeder Protest & Royal Champions: Samples must be collected by a veterinarian, or chief steward if no veterinarian is present on showgrounds, in the presence of a suitable ICSA representative.
4. DNA Sample Results:
- a) All matters of identification and parentage as determined by the designated laboratory will be accepted as official.
 - b) Positive Parental Identification: No action necessary – registration confirmed.
 - c) Negative Parental Identification:
 - I. Parentage Known: Adjust registration type/percentage as necessary of tested animal and offspring to accurately reflect true parentage.
 - 1. Awards and show winnings retained if new registration type/percentage is eligible.
 - 2. Awards and show winnings revoked if new registration type is ineligible. Animals following in rank order all move up one placing. Notification made by ICSA in herd book errata.
 - 3. If the animal in question has a registered name that includes the name of the negative parent relation, the registered name

must be updated to prevent misleading, or confusion, of other breeders.

4. All registration paper corrections (individual and any offspring) will be paid for by the breeder.

II. Parentage Unknown: Registration paper revoked and registration of any offspring adjusted with tested parent listed as unknown.

1. Awards and show winnings revoked. Animals following in rank order all move up one placing. Notification made by ICSA in herd book errata.
2. If the animal in question has a registered name that includes the name of the unknown parent relation, the registered name must be updated to prevent misleading, or confusion, of other breeders.
3. All registration paper corrections (individual and any offspring) will be paid for by the breeder.

5. Negative Result Follow-Up Actions

- a) Correction of registrations and offspring as stated above.
- b) If actual parentage can be confirmed in a timely manner no follow up actions will be pursued.
- c) If actual parentage is not determined in a timely manner then a maximum of 5 additional animals bred by the breeder/herd unit will be DNA typed.
- d) If a breeder/herd unit has 2 or more negative parentage issues within a five-year period, the issue will be brought to the ICSA Board of Directors for additional action (Breeder inquiry exempt). Follow up actions may include:

- I. Testing of all animals registered in the following 12-24 month period,
- II. Random testing of additional animals from the breeder/herd unit,
- III. Complete testing of all animals bred by the breeder/herd unit, and/or
- IV. Elimination of registration and loss of membership as indicated by the Amended By-Laws.

6. Non-Cooperation of Breeders

- a) This may lead to elimination of registrations and loss of membership.

- b) All follow up testing (including additional tests to confirm parentage) to be paid by the breeder/herd unit.
- c) If a breeder refuses to adhere to the above policies, and no progress can be made by the President, Clause 11 of the By-Laws of the Illawarra Cattle Society of Australia, will be invoked.