A Qtl On Eca 22 Is Associated With Performance In Seveal Horse Breeds

Tech ID: 33437 / UC Case 2021-694-0

ABSTRACT

Researchers at the University of California, Davis have identified a genetic discovery associated with the physical conformation and gait performance in horses.

FULL DESCRIPTION

Researchers at the University of California Davis have developed a technology that involves the identification of a specific quantitative trait locus (QTL) associated with back and croup conformation and riding performance in horses. It suggests that specific mutations at this QTL can be strongly correlated with these traits and a horse's ability to race at different gaits. This discovery opens up new possibilities in horse breeding and race strategy.

APPLICATIONS

- Horse breeding
- Racing industry
- Equine sports
- Genetic testing in animal sports and breeding

FEATURES/BENEFITS

- Provides genetic markers for predicting conformation of back and croup of horses
- Predicts gait performance type, particularly pace or trot, of horses
- Can influence breeding choices
- May guide training schemes based on a horse's likely physical development and performance capacity
- Identifies genetic predictors of horse conformation, which were previously unknown
- Pinpoints markers related to gait performance, opening up more accurate prediction and training strategies

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Published Application	20240043926	02/08/2024	2021-694

CONTACT

Victor Haroldsen
haroldsen@ucdavis.edu
tel: 530-752-7717.

INVENTORS

- Bellone, Rebecca

OTHER INFORMATION

CATEGORIZED AS

- **Agriculture & Animal Science**
  - Animal Science
- **Veterinary**
  - Diagnostics
  - Large Animal
  - Other

RELATED CASES

2021-694-0

University of California, Davis
Technology Transfer Office
1850 Research Park Drive, Suite 100, ,
Davis,CA 95618

Tel: 530.754.8649
techtransfer@ucdavis.edu
https://research.ucdavis.edu/technology-transfer/
Fax: 530.754.7620