

The applications of genetics in the veterinary science

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Abstract

Animal selection has generated a variety of phenotype that evolved into distinct breeds scattered across the globe. Investigations of animal population history, breeding decisions, and patterns of geographic evolution are being accessed using genomic information. The use of genetics has clearly improved the process to identify and to select most suitable animal for different environments. With this we have observed a enormous progress on the production of different animal species. Thus, the assessment of genetic information has become essential to the implementation of selection programs in different animal breeds.

However with the intensification of the animal selection, we also have observed the appearance in the frequency of deleterious alleles in different populations, involved with disease traits. Therefore, the use of genomic information has become an important tool to identify and to characterize different genetic variations involved with animal diseases, being used now to help in the selection process against this phenotype.

The objective of my talk is to cover the use of genetics to understand different genetic mechanisms involved with diseases traits.

Biography

Ricardo Zanella has completed his Ph.D. at the age of 30 years from Washington State University, Pullman, WA. He is the president of Associação Gaúcha de Buiatria and the vice-president of the Brazilian Buiatrics Association. He is an adjunct professor at the University of Passo Fundo. He has published more than 50 papers in reputed journals and serving as an editorial board member of different scientific journals.

<https://www.hilarispublisher.com/animal-health-behavioural-science.html>

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