
優秀発表賞応募講演 | 優秀発表賞応募講演

優秀発表 II

座長：井上 慶一（宮大農）、谷口 雅章（農研機構畜産研）、佐々木 修（農研機構畜産部門）、下桐 猛（鹿大農）

2023年9月19日(火) 09:00 ~ 10:30 第III会場 (1・2番講義室)

IIIYS-19-01~IIIYS-19-03：井上 慶一、谷口 雅章

IIIYS-19-04~IIIYS-19-06：佐々木 修、下桐 猛

09:30 ~ 09:45

[IIIYS-19-03] Exploring the effective breeding methods for genetic improvement of the local Benin cattle breeds

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[Objective] Most developing countries, including Benin, are facing the problem of missing data in their cattle production. This problem can be overcome by a simulation based on the available data for the genetic improvement of the local Benin cattle breeds. By computation, choosing a trait of interest for the local production and a local breed adapted to the production conditions. [Methods] Simulations were made with AlphaSimR, an R environment package. A simulation program was designed for the N'dama cattle breed. The scenario parameters were a single trait (body weight) with a heritability of 0.3, including 2000 individuals, with 1000 males and 1000 females. Phenotypic and genetic data were generated through the evolution of the population over 20 years. [Results] The response to selection was positive, with a positive trend in the phenotype and the genetic value. By selecting based on the estimation of the breeding value of the sires, the accuracy of the prediction will be higher.