

BOAR SNP VARIABILITY IN GENETIC RESOURCE PŘEŠTICE BLACK-PIED PIG

Falková L., Vrtková I., Kratochvílová L.

Mendel University in Brno, Laboratory of Agrogenomics, Czech Republic

Abstract

The aim of study was to genotype Přeštice Black-Pied boars in the SNP markers and to evaluate the genetic variability. The genetic variability of genetic resource Přeštice Black-Pied (Pc) was analysed by genotyping 92 breeding boars. The research of molecular variability is useful for optimal conduct of their breeding and knowledge of relations between molecular markers and traits. In this study was chosen markers with important association with production and economical traits. Seven single nucleotide polymorphisms were used for analysis: *CRC*, *ESR2*, *FUT1*, *MUC4*, *Mx1*, *MC4R*, *TEAD3*. We observed genetic variability in these markers. Some alleles was due to breeding almost lost and occurred only in heterozygous genotypes.

Key Words: Pig, genetic variability, Přeštice Black-Pied , SNP