

研究报告

梅花鹿生长激素基因单核苷酸多态与产茸量性状的相关性

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摘要

以梅花鹿的生长激素基因(*GH*)作为候选基因,分析该基因对梅花鹿产茸量性状的影响。以吉林农业大学鹿场提供的梅花鹿为实验群体,采用单链构象多态性(PCR-SSCP)和DNA测序的方法检测了*GH*基因单核苷酸多态性(SNPs),针对该群体的特点建立合适的统计分析模型,并进行了*GH*基因多态性与产茸量的相关分析。结果表明,*GH*基因对梅花鹿的产茸量有一定影响。G→A突变产生的3种基因型间的第五锯产茸量存在一定的差异($P<0.2$),BB基因型个体在第五锯的产茸量与AA基因型个体之间有一定的差异($P<0.2$)。

关键词 [梅花鹿](#) [GH基因](#) [单核苷酸多态](#) [产茸量性状](#)

分类号

Association analysis between SNPs of the growth hormone gene and antler production in spotted deer

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Abstract

<P>We report the effects of candidate gene growth hormone (GH) gene on antler production in the current study. Single nucleotide polymorphisms (SNPs) of the gene were identified and genotyped by polymerase chain reaction followed by single strand conformation polymorphism (PCR-SSCP) analysis and DNA sequencing in a deer population from the farm of Jilin Agricultural University. Correlation analysis between GH polymorphisms and antler production was carried out using the appropriate mixed model. Results showed an effect of GH gene on antler production. Deer with the SNP genotypes G→A had a significant difference in antler production of the fifth saw (P<0.2). BB deer had a higher antler production than AA ones (P<0.2).</P>

Key words [Spotted deer](#) [GH gene](#) [SNP](#) [antler production trait](#)

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