

动物科学

云南鹅群体遗传结构的随机扩增多态DNA分析

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摘要 采用随机扩增多态性DNA标记技术对云南鹅主产区6个不同地点的45个个体进行了群体遗传学分析, 从85个随机引物中筛选出的23个引物对所有个体的总基因组DNA进行了PCR扩增, 共检测出178条DNA片段, 其中150条属多态性片段(多态率84.27%), 计算了各座位在群体中的基因频率、杂合度和群体Shannon多样性指数等参数。结果表明: 云南鹅的群体遗传变异较丰富。

关键词 [云南鹅](#); [遗传多样性](#); [RAPD](#); [杂合度](#); [Shannon多样性指数](#)

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Analysis of Population Genetic Structure of Yunnan Goose Using RAPD Markers

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Abstract

In this study, random amplified polymorphic DNA (RAPD) technique was used to analysis the genetic diversity of 45 samples from 6 different areas in the hometown of the yunnan goose. 23 polymorphic primers which had been screened out from 85 primers were used to amplify the total genome DNA of 45 yunnan geese, 178 bands were assayed, of which 150 bands (84.27%) were polymorphic. The allele frequencies at each locus, genetic heterozygosity, Shannon index of genetic diversity had been calculated. The results indicated that there is rich variation in the population of Hunan goose.

Key words [Yunnan goose](#); [genetic diversity](#); [RAPD](#); [heterozygosity](#); [Shannon index of genetic diversity](#)

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