

动物科学

中国地方鸡种资源不同保种方法的分子检测^{*}

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收稿日期 2005-10-15 修回日期

摘要 采用13对高度多态的微卫星标记对我国7个受国家重点保护的地方鸡种的原地保护和异地保存两种活体保种方法的保种效果进行了检测,计算了各品种的遗传杂合度和多态信息含量,比较了各品种在不同保种方法之间的遗传参数。结果表明:7个品种在两种保种方法中都有高度多态性,但异地保存的品种的多态性较原地保护的品种的多态性要多;虽然两种方法的保种效果较好,但是原地保护和异地保存之间在同一品种内的遗传变异并不相同。

关键词 [鸡品种资源](#) [微卫星标记](#) [遗传多样性](#) [遗传距离](#)

分类号 [S 831.2](#)

Molecular Evaluation of Different Conservation Measures of Chinese Indigenous Chicken Breeds

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Abstract

In order to conserve the genetic diversity of domestic fowl and animal, we ordinarily took origination and displacement measures. This experiment studied the two different conservative effects of 7 indigenous chicken breeds in China by using 13 microsatellite markers with high polymorphisms. Those chicken breeds included Chahua, Langshan, Dagu, Silky, Xianju, Beijing fatty, and Henan game chicken. We calculated the genetic parameters of mean heterozygosity (H) and polymorphic information content (PIC) of each breed in two conservative zones, and analyzed the parameters' difference of each breed. The results showed that each breed was of high polymorphisms, but the polymorphisms of displacement were more than that of origination. Although the effects of two measures were better, the genetic variation of each breed had some difference between two measures.

Key words [chicken](#) [microsatellite](#) [heterozygosity](#) [polymorphic information content](#)

DOI:

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