

6个中外猪品种的RAPD分析 Genetic Variation of Six Breeds of Pigs by RAPD Analysis

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摘要 应用RAPD技术分析了梅山猪、淮南猪、通城猪、八眉猪、合作猪、大白猪的遗传变异。用276个随机引物对6个猪种混合DNA扩增筛选, 24个引物产生多态性。此24个引物经重新优化反应条件体系后, 对276个个体DNA进行扩增。结果6个猪种的遗传多样性指数分别为0.178672、0.17781、0.15995、0.14549、0.16949和0.14157, 群体内平均遗传多样性指数为0.16216, 总群体遗传多样性指数为0.2534。基于Rogers公式计算的遗传距离采用NJ和UPGMA法进行聚类分析, 结果6个猪种的亲缘关系与它们的地理分布基本一致。

Abstract: The genetic variation of Meishan, Huainan, Tongcheng, Bamei, Hezuo and Large white pigs were analyzed by RAPD markers. Twenty-four single polymorphic primers were selected out of 276 primers by amplifying six pool DNA. The index of Shannon were 0.178672, 0.17781, 0.15995, 0.14549, 0.16949, 0.14157 respectively; H_{pop} was 0.16216, H_{sp} was 0.2534. The phylogenetic tree was constructed using NJ and UPGMA. The results indicated that the phenylogenetic relationship of the six pig breeds was consistent with their distribution.

关键词 [RAPD](#) [猪](#) [遗传变异](#) **Key words** [RAPD](#) [pig](#) [genetic variation](#)

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