

波尔山羊及其杂交改良后代群体遗传结构与亲缘关系研究 Studies of Genetic Structure and Genetic Relationship of Boer Goat and Its Upgrading Offspring to Tangshan Diary Goat

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摘要 利用RAPD标记和POPGENE、PHYLIP及SPSS等统计分析软件, 研究了波尔山羊及其杂交改良后代群体的遗传结构及遗传亲缘关系。结果表明, 波尔山羊与其杂交改良后代间特别是高代杂种间具有相似的多态基因座百分率、等位基因数和基因多样性。随着级进杂交改良代数的递增, 高代杂种之间以及与改良亲本之间的群体遗传结构的差异逐渐缩小, 群体间的基因分化降低, 基因流动和遗传相似度增加, 遗传距离缩小, 高代杂种与波尔山羊间具有更近的遗传亲缘关系。

Abstract:The genetic structure and relationship of Boer goat and its upgrading offspring to Tangshan Diary goat were studied using the RAPD marker and some statistical program, such as POPGENE, PHYLIP and SPSS. The results indicated that there were the similar percentage of polymorphic loci, observed and effective number of alleles, gene diversity between Boer goat and its upgrading offspring, especially higher upgrading offspring. With the increasing of upgrading, the difference of population structure decreased as well as the genetic distance and differentiation among higher upgrading offspring and their improving parental, but gene flow and genetic identity increased. There was a close genetic relationship between higher upgrading offspring and Boer goat.

关键词 [波尔山羊](#) [杂交后代](#) [遗传结构](#) [亲缘关系](#) [RAPD](#) **Key words** [Boer goat](#) [upgrading offspring](#) [genetic structure](#) [genetic relationship](#) [RAPD](#)

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