

群体遗传不平衡条件下的结构基因遗传共适应特性 Genetic Co-adaptability Among Structural Genes under the Condition of Genetic Disequilibrium

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收稿日期 修回日期 网络版发布日期 接受日期

摘要 本研究以柴达木山羊、柴达木绒山羊和辽宁绒山羊三个群体共147只山羊为材料, 利用聚丙烯酰胺凝胶电泳(PAGE)技术检测了5种血液蛋白质(酶)基因座的遗传多态性, 并进行了结构基因遗传共适应的研究, 结果发现: 45个基因座组合中有10个基因座组合处于遗传不平衡状态, 并且这些遗传不平衡皆单纯由遗传共适应差异造成; 除辽宁绒山羊Tf-PA-3组合的遗传不平衡包含非等位基因间的遗传共适应差异外, 其他基因座组合的遗传不平衡皆由等位基因间的共适应差异, 即单基因座的遗传不平衡造成; LAP-EsD组合的共适应差异在群体间有遗传传递现象。

Abstract: With the technology of PAGE, the genetic polymorphism of blood protein and enzyme was investigated, and genetic co-adaptability among structural genes was studied in three goat populations (147 goats) including Chaidamu goat (CS), Chaidamu Cashmere goat (CRS) and Liaoning Cashmere goat (LRS) in Qinghai Province, China. The results were showed that the genetic disequilibrium of 10 locus combinations was found among 45 locus combinations in the three goat populations, and these genetic disequilibria were caused only by the difference of genetic co-adaptability among genes, because there didn't exist the linkage disequilibrium among non-allelic genes. The genetic disequilibrium including the difference of genetic co-adaptability between non-allelic genes was only found at Tf-PA-3 locus combinations in LRS population, the other ones were all caused by the genetic disequilibrium at a single locus. The difference of genetic co-adaptability of LAP-EsD locus combinations could be messaged among different populations.

关键词 [山羊群体](#) [结构基因](#) [遗传共适应](#) [遗传不平衡](#) Key words [goat population](#) [structural gene](#) [genetic co-adaptability](#) [genetic disequilibrium](#)

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