江西省主要地方鸡种的RAPD分析及其群体遗传关系的研究 Study on ▶Supporting info Population Genetic Relationships among Jiangxi Native Chicken Breeds by RAPD Analysis

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采用RAPD技术分析了南城黑鸡、余干五黑鸡、泰和乌骨鸡、东乡绿壳蛋鸡、崇仁麻鸡、宁都三黄鸡、广丰 白耳黄鸡和万载康乐黄鸡等8个江西地方鸡种、1个培育鸡种--景德黄鸡以及1个外来鸡种--以色列隐性白羽鸡基因▶浏览反馈信息 组池DNA的多态性, 经0PERONA, B, C, D, G5组100种随机引物扩增筛选, 14种引物获得了33个多态标记. 各品种间的遗传 距离指数的计算结果和UPGMA聚类关系图表明:在10个鸡种间, 南城黑鸡和余干五黑鸡的遗传距离最近, 两者有着极 密切的亲缘关系. 据此认为这两个鸡群可视为同一品种的两个地方系. 此外, 广丰白耳黄鸡和景德黄鸡也表现出较密 ▶ 本刊中 包含"鸡"的 相关文章 切的亲缘关系,这与景德黄鸡在培育过程中曾掺有白耳黄鸡血缘的选育历史相吻合。

Abstract: Random amphfied polymorphic DNAs (RAPD) analysis was explored to investigate genetic polymorphisms of pooled genomic DNA from 8 native and 1 cultivated chicken breeds in Jiangxi province as well as 1 exotic chicken breed, which include Guangfeng bajer huang, Jingde huang, Yugan wuhei, Nancheng hei, Congren ma, Taihe Silky Fowl, Ningdu san huang, Dongxiang green-shell, Wanzai kangle huang and Israel Recessive White Feather Fowl. of 100 OPERON random primers screened, 14 primers produced 34 polymorphic RAPD markers. The genetic distance index and UPGMA dendrogram indicated that Nancheng hei and Yugan wuhei chickens had very closely genetic relationship, the genetic distance between the two populations was closer than any other pair of breeds. Therefore, the two chicken populations were suggested to be classified into one breed. In addition, Guangfeng baier huang and Jingde huang shown intimately relationship, it was consistent with the cultivation history of Jingde huang chicken breed, in which Guangfeng baier huang was introduced as one of parental breed.

关键词 鸡 RAPD 群体遗传 亲缘关系 Key words chicken RAPD population genetics genetic relationships 扩展功能

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