# 鸡的血型研究\*X.我国11个地方鸡种的血型和血浆蛋白质多态分析

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摘要 对我国11个地方鸡种1087羽鸡群进行了血型和血浆蛋白质多态7个位点22个等位基因的群体 遗传学分析。结果表明,血型A、C位点,基因频率各鸡种存在显著差异,B位点则没有显著 差异,血型和血浆蛋白质多态位点基因纯合系数普遍较低,血型因子分布在群体中较为分散 ,表明这些地方品种存在较大的选择潜力。血浆蛋白质多态位点,中国与外国的某些鸡种比 较,存在着较大的相同或相异,可能意味着我国和外国鸡种起源上的同缘或品种起源、进化 上的多样性。聚类分析表明,这11个地方鸡种可系统聚类成4个类群,其结果与目前人们对 这些鸡种的表征分类不尽一致。

关键词 血型,蛋白质多态,地方鸡种

分类号

# Studies of the Blood-group of ChickenX. Analysis of Blood-group and Plasma Protein Polymorphism in Eleven Chinese Nati ve Fowl Breeds

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#### Abstract

This paper reports the results of blood-group and plasma protein polymorphism of elevtn Chinese native fowl breeds. 1. The distribution frequencies of the bloodgroup genes (3 loci 12 alleles) in eleven Chinese native fowl breeds were significantly different in A and C loc i, but not significant in B locus. The coefficients of homozygosity of blood-group gene in all breeds were almost similar, except in Gushi and Chonren pitted chick ens. The distribution of blood-group factors in all breeds was extensive, and this means that the selection potential in these local breeds was very large. 2. The gene frequencies of alkaline phosphatase (Akp and Akp-2) transferrin (Tf) in some breeds were more different, while the that of esterase (Es-1) was les s different. Among Chinese Japanese and American-European native breeds, the diffe rence of gene frequencies of esterase-was greater, while that of alkaline phospha tase and transferrin was smaller. It showed the identity or diversity in breed or igin and evolution in these Chinese local breeds and Japanese or American-Europe an native breeds. 3. The cluster analysis of the eleven Chinese native fowl breeds showed that these breeds could be divided into four groups: White ear-lobe- Shouguang- Luyuan chickens; Xiaoshan-Xianju- Pudong chickens; Langshan- Taihe Silky- Beijing Youkei chickens and Gushi-Chonren pitted chickens.

**Key words** <u>Blood-group</u> <u>Protein Polymorphism</u> <u>Native fowl breeds</u>

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