

华东地区黑果蝇自然群体同工酶遗传多态的研究

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摘要 我们用标准垂直板聚丙烯酰胺凝胶电泳和水平琼脂糖凝胶电泳技术检测了黑果蝇(*Drosophila virilis*)在合肥、芜湖、南昌、福州、泉州和常州7个自然群体中Est- α 、Est- β 、Amy、Acph 和 α -Gpdh 两个座位则是单态的。根据这5个座位等位基因的频率, 我们计算了群体间的遗传距离。综合何朝珍报道的宁波、杭州、南京和洪泽4个群体的结果(2)和我们的结果, 我们作出系统树并发现泉州、福州两群体和其他群体在基因频率的分布和遗传距离方面有显著着差异; 分析显示这种差异与群体间地理隔离有关。

关键词 [琼脂糖,聚丙烯酰胺,电泳,遗传变异,Drosophila virilis,地理隔离,关系树](#)

分类号

A Study of Genetic Polymorphism of Isozymes in Natural Populations of *Drosophila virilis* in East China

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Abstract

A study of genetic variation at Est _{α} , Est _{β} , Amy, Acph and α -Gpdh loci in local samples of Hefei, Wuhu, Jiujiang, Nanchang, Changzhou, Fuzhou and Quanzhou *Drosophila virilis* population is presented. The employment of standard techniques of polyacrylamide electrophoresis and agarose electrophoresis reveals that the former three loci are highly polymorphic in all these populations. According to the allelic frequencies of the 5 loci, a genetic distance between the abovementioned populations was calculated. Along with the results obtained by Mr He Chaozheng from Hongze, Nanjing, Hangzhou and Ningbo populations, a dendrogram was made. It was found that Quanzhou and Fuzhou populations differend from the others in allelic frequencies and genetic distances which suggests that this difference is related to the extent of geographic isolation among them.

Key words [Agarose](#) [Dendrogram](#) [Drosophila virilis](#) [Electrophoresis](#) [genetic variation](#) [Isolation](#) [Polyacrylamide](#)

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