

Inversion polymorphism and extra bristles in Indian natural populations of *Drosophila ananassae*: joint variation

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Five Indian natural populations of *Drosophila ananassae* were analysed for chromosome inversions and the presence of individuals with extra scutellar bristles in the F_1 progeny of isofemale lines initiated from naturally impregnated females. Three commonly occurring inversions were found in these populations with varying frequencies as was the number of individuals with extra bristles (e.b.). Female individuals were more often found to carry extra scutellar bristles than were males. This result reveals that polygenic loci responsible for the determination of e.b. are widespread in Indian natural populations of *D. ananassae*. A significant positive correlation between the inversion frequency and the number of individuals with e.b. was detected in the isofemale lines of all the five populations. The 2L inversion, alpha, was found to be closely associated with individuals with the e.b. phenotype. The observed results are compared with earlier results obtained for *D. melanogaster*. The association of the alpha inversion with the e.b. phenotype is discussed in relation to chromosomal evolution in the *melanogaster* species group.

Keywords: *Drosophila ananassae*, extra scutellar bristles, inversion polymorphism, sex difference.

Introduction

Inversion polymorphism is clearly a part of the adaptive machinery in natural populations of *Drosophila*. Several species of *Drosophila* have been screened worldwide for this phenomenon and different situations have been found to exist. In India, two cosmopolitan species of *Drosophila*, *D. melanogaster* and *D. ananassae*, have been widely investigated for chromosome inversion polymorphism (Das, 1994 for a review). Although a considerable amount of genotypic variation is generally detected in natural populations, few differences in phenotypic characters are usually observed. It has been suggested that the genetic basis of phenotypic changes is fundamental for understanding the mechanism of evolution in natural and experimental populations (Lande, 1983) and the study of quantitative characters in wild populations could prove to be interesting for evolutionary studies (David *et al.*, 1977).

In *D. melanogaster*, it has been found that the scutellar phenotype is strongly canalized at four macrochaetae (bristles) and that the canalization is regulated by the scute locus (Rendel *et al.*, 1965). Also, it has been determined that the normal number of four scutellar bristles in *D. melanogaster* is often so tightly controlled developmentally that a change in visible phenotype occurs only after a considerable amount of gene substitution (Rendel *et al.*, 1965; Das & Singh, 1992). It also has been estimated that to alter the chaeta number from four to three or five takes about eight times as many genetic changes as to alter the number from three to one (Lee & Parsons, 1968). In natural populations of this species genetic variation for extra scutellar bristle phenotypes has been reported in India (Singh & Das, 1991), Spain (García-Vazquez *et al.*, 1989) and Austria (Lequendo *et al.*, 1991). In all these studies, chromosome inversions, especially In(3R)C, are found to be positively correlated with the extra bristle phenotypes.

Drosophila ananassae is a cosmopolitan and domestic species which occurs throughout the tropical regions of the world and is found in abundance in the Indian subcontinent. Studies on the population genetics of

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Drosophila Inversion Polymorphism

Colin A. M. Semple



Drosophila Inversion Polymorphism:

Drosophila Inversion Polymorphism Costas B. Krimbas, Jeffrey R. Powell, 1992-08-21 Inversion polymorphism in *Drosophila* has long served as a research subject for a variety of evolutionary studies and continues to be extremely important in understanding evolutionary principles today Until now no single volume has ever been assembled as a summary of this work *Drosophila Inversion Polymorphism* provides background information explores new and rigorous approaches to reconstructing phylogenetic relationships from inversion variation and discusses inversion polymorphism in the six most studied species groups Some chapters examine general principles and conclusions some present detailed data sets many of which have never before been published and others offer detailed chromosome maps for identification The book is a one of a kind source of summary discussions and data ripe for analysis Geneticists evolutionary biologists biologists and all investigators researching inversion polymorphisms should consider *Drosophila Inversion Polymorphism* a must have volume

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web john higham rutgers university press 1988 minorities 447 pages with both broad strokes and yet close attention to detail professor higham skillfully interweaves the three main themes of

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reference to the american west my analysis looks especially at race and imperialism

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coincidence the same era was the heyday of jim crow of lynchings and ethnic cleansing directed against african americans