

6. Acrostichal hairs in six rows. Or<sub>2</sub> less than half of vibrissa  
 .....bryani Malloch  
 Acrostichal hairs in eight rows. Or<sub>2</sub> not differentiated  
 .....bambuphila Gupta

Species	Source	Locality
D. chandraprabha	Bait	Chandraprabha (Chakia forest, Varanasi), Sirsi Dam (Mirzapur)
D. silvalineata	Bait	Chandraprabha (Chakia forest, Varanasi).
D. paratriangulata	Bait	Chandraprabha (Chakia forest, Varanasi); River Bank colony (Lucknow); Ayurvedic garden (B.H.U.).
D. latifshahi	Bait	Chandraprabha, Latifshah (Chakia forest, Varanasi); River bank colony (Lucknow).
D. ebonata	Bait	Srinagar, Pahalgam (Kashmir valley).
D. bryani	Bait and sweeping	Old Botanical garden (B.H.U.)
D. bambuphila	Bait and sweeping	Old Botanical garden (B.H.U.); Jatili near Padmapur (Berhampur).

Franklin, I.R. C.S.I.R.O. Division of Animal Genetics, Epping, N.S.W. Genetic variation at the Esterase-6 locus in *D. melanogaster*.

Wright (1963) in describing the Esterase-6 polymorphism in *D. melanogaster* reported two alleles, Est-6<sup>S</sup> and Est-6<sup>F</sup>. Subsequently Rodino and Martini (DIS 46:139) have reported a third allele, Est-6<sup>V</sup>. In a number of samples of *D. melanogaster*

from the Hunter Valley, N.S.W. four alleles have been observed, and a fifth seen rarely in other collections. Extension of the above notation would result in a cumbersome terminology, and I have followed Hubby and Lewontin (1966) in using the following designation -- Est-6<sup>1.0</sup>, Est-6<sup>1.1</sup>, Est-6<sup>1.15</sup>, and Est-6<sup>1.25</sup>. The first two are equivalent to Est-6<sup>S</sup> and Est-6<sup>F</sup>, and Est-6<sup>V</sup> probably corresponds to Est-6<sup>1.25</sup>. (The fifth allele alluded to above is slower than Est-6<sup>1.0</sup>, and has been represented Est-6<sup>0.95</sup>).

The frequencies of the four most common alleles are quite constant from site to site, and the genotypic frequencies are shown in Table 1.

Table 1. Genotypic frequencies at the Est-6 locus

	Genotype								Total
	1.0/1.0	1.0/1.1	1.0/1.15	1.0/1.25	1.1/1.1	1.1/1.25	1.25/1.25	Others	
Numbers	376	234	7	45	52	7	2	-	714
Frequency	.514	.328	.010	.063	.073	.010	.003	-	

The frequencies of the four alleles are 0.714, 0.242, 0.005, and 0.039.

Some additional data on the location of the Est-6 locus have been collected in test-crosses to 'rucuca'. Using a similar experiment to that described by Wright (1963), 185 flies showing recombination between hairy and thread were tested for their genotype at the Est-6 locus. In 81 cases the recombination had occurred between thread and Est-6. Wright observed 57 out of 149 tested. Pooling these data the location of the Est-6 locus is 3-35.9±0.5.

References: Wright, T.R.F. 1963 Genetics 48:787; Hubby, J.L. and Lewontin, R.C. Genetics 54:577.