

ELEVEN SPONTANEOUSLY OCCURRING MUTANTS OF *DROSOPHILA ANANASSAE* IN SRI LANKA

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A study was carried out to isolate morphological mutants from wild populations of *Drosophila ananassae* in Sri Lanka.

Wild *D. ananassae* males were collected fortnightly from three places, namely Piliyandala, Gangodawila and Nawinna and were mated to virgin females from the laboratory stock. The resulting F₂ offspring were screened for morphological deviants. When such deviants were isolated they were tested genetically to study their mode of inheritance.

Eleven inheritable mutants were isolated in this study. The phenotypic characters of these eleven mutants are as follows : dark antennae, brown eye, garnet eye, short wing, short and balloon wing, curled wing, marginal cell-less wing, cut wing, miniature wing, extra single and double cross vein wing mutants.

The brown eye, extra single and double cross vein wing, were found to be due to recessive autosomal genes. Marginal cell-less wing, short wing, short and balloon wing were due to recessive sex linked genes.

Mutants similar to brown eye (Moriwaki, 1971) cut wing (Kikawa, 1933; Moriwaki, 1968) extra cross vein wing (Kikawa, 1835; Moriwaki, 1972) curled wing (Baranas Hindu University, India, 1967) mutants of *D. ananassae* have been reported previously while the other mutants are being reported for the first time.

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References

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