



An Analysis of the Effects of Selection (Classic Reprint)

By A H Sturtevant

Forgotten Books, United States, 2016. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from An Analysis of the Effects of Selection The present paper describes a series of experiments aimed at determining the causes of the variability in bristle number observed in Dichsaet, a mutant race of *Drosophila melanogaster* (*ampelophila*). These experiments are discussed under several headings, as follows: (a) Selection of plus and of minus variants was carried out. Both plus and minus lines were obtained and were used in the further experiments. (b) A plus line and a minus line were crossed, and an increase in variability was observed in F2. (c) Linkage tests were made, and by this means it was demonstrated that modifying genes were present in the selected lines. (d) Evidence against the hypothesis of contamination of allelomorphs was obtained. (e) This evidence, and that obtained by other investigators, is then utilized in a general discussion of the selection problem, and of the hypothesis of contamination of genes. The conclusions are drawn that selection is usually effective only in isolating genetic differences already present; and that genes are relatively stable, not being contaminated in...



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