

## Selection of Substrates for Pupation of *Drosophila* Larvae

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**Abstract:** Larval substrate selection for pupation was studied on horizontal plane in different species of *Drosophila* by interchanging the substrates. The analysis revealed that the larvae of *D. simulans*, *D. yakuba*, *D. mauritiana*, *D. bipectinata* and *D. malerkotliana* significantly prefer media for pupation. *D. melanogaster* and *D. rajasekari* prefer cotton for pupation. *D. ananassae*, *D. virilis*, *D. novamexicana* and *D. hydei* did not prefer any specific substrate, the preference of the substrate selection varies in these species for pupation. The larval substrate selection is independent of the geotaxis effect.

**Keywords:** *Drosophila*, Larvae, Site Selection, Substrates, Pupation