

Effects of Diethyl Phthalate on *Drosophila melanogaster*

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Abstract:

Diethyl phthalate is believed to be an estrogen mimicker that sterilizes and feminizes males, as well as causes breast cancer in females. *Drosophila melanogaster*, commonly referred to as the fruit fly, was used to test the effects of diethyl phthalate on gender development. A serial dilution was performed, and the flies were inoculated into vials containing 10%, 1%, 0.1%, 0.01%, and 0% of diethyl phthalate. After incubation, the flies were anesthetized and gender ratios, along with mutations, were determined. After analyzing the flies, it could be concluded that diethyl phthalate was harmful to male reproduction. It could also be concluded that the lethality of diethyl phthalate for *drosophila melanogaster* is between 1% and 10%.

