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JP8 Induced Mutagenesis and Hormesis

Authors: [Purushottam Kale](#); [ALABAMA A AND M UNIV NORMAL](#)

Abstract: In order to test the phenomenon of JP8 induced hormesis and mutagenesis in Drosophila, several experiments were performed using samples over 5000 individuals in each experiment. The JP8 doses were progressively decreased from 5 microliters to 0.5 microliters in 1000 milliliters of air. Exposures were for 12 hours and survival was counted after 10 days. At a dose of 5 microliters, the survival was 80% which increased (or lethality decreased) at lower doses. Below this dose, there was no significant decrease in the survival. Still lower doses need to be tested to investigate if there is a hormetic dose at lower levels. Mutagenicity experiments did demonstrate that the JP8 is mutagenic in all germ cell stages of Drosophila.

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