

Dominant Lethal Mutagenic Study with Three Polychlorinated Biphenyls¹

In Albino Mice

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ABSTRACT

Dominant Lethal Mutagenic Study with Three Polychlorinated Biphenyls in Albino Mice. Kennedy, G. L., Keplinger, M. L., Fancher, Otis E., Wheeler, E. P. and Calandra, J. C. (0000). Toxicol. Appl. Pharmacol. 00, 00 - 00.

A study was conducted to determine the mutagenic activity of 3 polychlorinated biphenyls (Aroclors 1242, 1254 and 1260) in albino mice. Treatment of male mice consisted of single intraperitoneal injections of test materials at levels of 500 and 1000 mg/kg, administered as solutions in corn oil. Positive control males received 100 mg/kg of methyl methanesulfonate (MMS) in corn oil and control animals were treated with corn oil alone.

Males were mated with untreated females 1, 2, 3, 4, 5, and 6 weeks following treatment. There was evidence of a dominant lethal effect among MMS-treated animals for matings after 1 and 2 weeks, but no evidence for dominant lethals following treatment with the Aroclors.