

**EFFECTS OF 2,3,7,8-TCDD AND RELATED COMPOUNDS ON THE LEVELS
OF AGE-DEPENDENT I-SPOT DNA ADDUCTS IN THE LIVER OF
FEMALE AND MALE SPRAGUE-DAWLEY RATS**

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ABSTRACT

Treatment of adult female rats with 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD, 1 μ g and 5 μ g/kg/week) over a period of 4 weeks resulted in a dose-dependent decrease in the levels of hepatic I-compounds (DNA adducts) as determined by the ³²P-postlabeling procedure. In adult male Sprague Dawley rats TCDD did not change the levels of total hepatic I-spots. The significance of these sex-specific effects and other data will be discussed.