

[Cancer Res., 46, 1654 (1986)]

**Genotoxicity of a Variety of Azobenzene and Aminoazobenzene Compounds  
in the Hepatocyte/DNA Repair Test and the *Salmonella*/Mutagenicity Test.**

HIDEKI MORI, YUKIO MORI\*, SHIGEYUKI SUGIE, NAOKI YOSHIMI,  
MASAYOSHI TAKAHASHI, HIROAKI NI-I, HIROSHI YAMAZAKI,  
KAZUMI TOYOSHI, GARY M. WILLAMS

Genotoxicity of 39 azo dye compounds of azobenzenes, aminoazobenzenes, and diaminoazobenzenes was examined in the hepatocyte primary culture/DNA repair test. Nine azobenzenes did not generate DNA repair. In contrast, all of 24 aminoazobenzenes, including those of unknown carcinogenicity, elicited DNA repair synthesis. A positive DNA repair response was obtained for the 3 of 6 tested diaminoazobenzenes. The results of the *Salmonella*/mutagenicity assay were almost identical with those of the DNA repair test except for several azo dyes.