1-Cytogenetic and biochemical effects of incense burning on laboratory mice.

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ABSTRACT

Incense smoke is a potential hazard to human health due to various airborne carcinogens emitted from incense burning. The present study was conducted to determine the genotoxic potential health effects of exposure to organic compounds emitted from incense burning. Chromosomal aberrations in bone marrow cells showed that incense burning generates significantly higher levels of metaphase abnormalities and a significant increase in DNA damage in treated groups compared to those of the control. Also, found that the activity of serum lactate dehydrogenase (LDH) increased significantly in incense smoke exposure groups compared to control. These results indicate that exposure to carcinogens emitted from incense burning may increase health risk.