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Induction of Chromosomal Aberrations and Sister Chromatid Exchanges by Cyproterone Acetate in Human Lymphocytes

Yasir Hasan Siddique and Mohammad Afzal

*Section of Genetics, Department of Zoology, Aligarh Muslim University
Aligarh 202 002, Uttar Pradesh, India*

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ABSTRACT The genotoxicity study of cyproterone acetate used as antiandrogen was carried out on human lymphocyte chromosomes using chromosomal aberrations and sister chromatid exchanges as parameters. The study was carried out in the presence as well as absence of metabolic activation (S9 mix). The effect of cyproterone acetate was studied as 5, 10, 20, 30 mM and was found to be genotoxic at 20 and 30 mM both in the presence as well as absence of metabolic activation system. The results suggest a genotoxic and cytotoxic effect of cyproterone acetate in human peripheral blood cultures *in vitro*.

[Home](#)

[Back](#)
