

## Accepted Manuscript

Title: Deferasirox-induced Cytogenetic Responses

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PII: S1382-6689(15)00043-5

DOI: <http://dx.doi.org/doi:10.1016/j.etap.2015.02.001>

Reference: ENVTOX 2196



To appear in: *Environmental Toxicology and Pharmacology*

Received date: 4-11-2014

Revised date: 4-2-2015

Accepted date: 5-2-2015

Please cite this article as: Ila, M.A., <ce:inter-ref id="intr0005" link:href="mailto:marslan76@gmail.com">marslan76@gmail.com</ce:inter-ref>H.B., Deferasirox-induced Cytogenetic Responses, *Environmental Toxicology and Pharmacology* (2015), <http://dx.doi.org/10.1016/j.etap.2015.02.001>

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- Deferasirox has a clastogenic character
- Deferasirox exhibited an antiproliferative character associated with genotoxicity.
- Deferasirox increased the sister chromatid exchange frequency in all tested concentrations and durations
- Deferasirox significantly increased abnormal cell percentages and abnormality rates per cell in *in vitro* lymphocytes
- Deferasirox led to cytotoxicity among rats by significantly reducing the mitotic index *in vivo* especially in high concentration and short duration.

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