Toxicant – Estrogen (17estradiolB)

Molecular Determinants can explain biological basis of differential action of estrogens in different animal species.

Potentially understand the relationship of exposure to estrogen and differential cancer pathogenesis translation to humans

Abstract:

Estrogen-induced kidney tumorigenesis in the male Syrian hamster has been postulated to be mediated by free radicals generated by metabolic redox cycling of catecholestrogen intermediates.

Citation:

Sarabia, S. F., & Liehr, J. G. (1998). Induction of monoamine oxidase B by 17 beta-estradiol in the hamster kidney preceding carcinogenesis. *Archives of biochemistry and biophysics*, *355*(2), 249–253. https://doi.org/10.1006/abbi.1998.0727

Armenian Hamster

Liver Cancer

Abstract:

Citation:

Li, J. J., Li, S. A., Klicka, J. K., Parsons, J. A., & Lam, L. K. (1983). Relative carcinogenic activity of various synthetic and natural estrogens in the Syrian hamster kidney. *Cancer research*, *43*(11), 5200–5204.

Fresa Rat

Pituitary Cancer

CD1 Mice

Uterus cancer

Nobel Rat

Breast Cancer

Neonatal Hamster

Uterus Cancer