

TCDD Risk Characterization

1. Long-term animal studies $\longrightarrow$ animal carcinogen
Question: is it "complete" carcinogen or "promoter"?
2. Mutagenic potential
 - a. Lack of in vitro point mutation / chromosome aberr. / DNA damage
 - b. Paucity of in vivo results (Drosoph. XLRH + DH neg)
 - c. Lack of DNA binding to rat liver DNA in vivo
3. 2-Stage studies
 - a. Skin
 - (i) ~~simple~~ carcinogenic response
 - (ii) initiation
 - (iii) promotion
 - b. Liver - ditto
 - c. In vitro transformation
4. Receptor-mediated effects
 - a. Enzyme induction
 - b. Thyroid glucuronyl transferase induction
5. Other relevant effects
 - a. Immunosuppression
 - b. Metabolism / kinetics