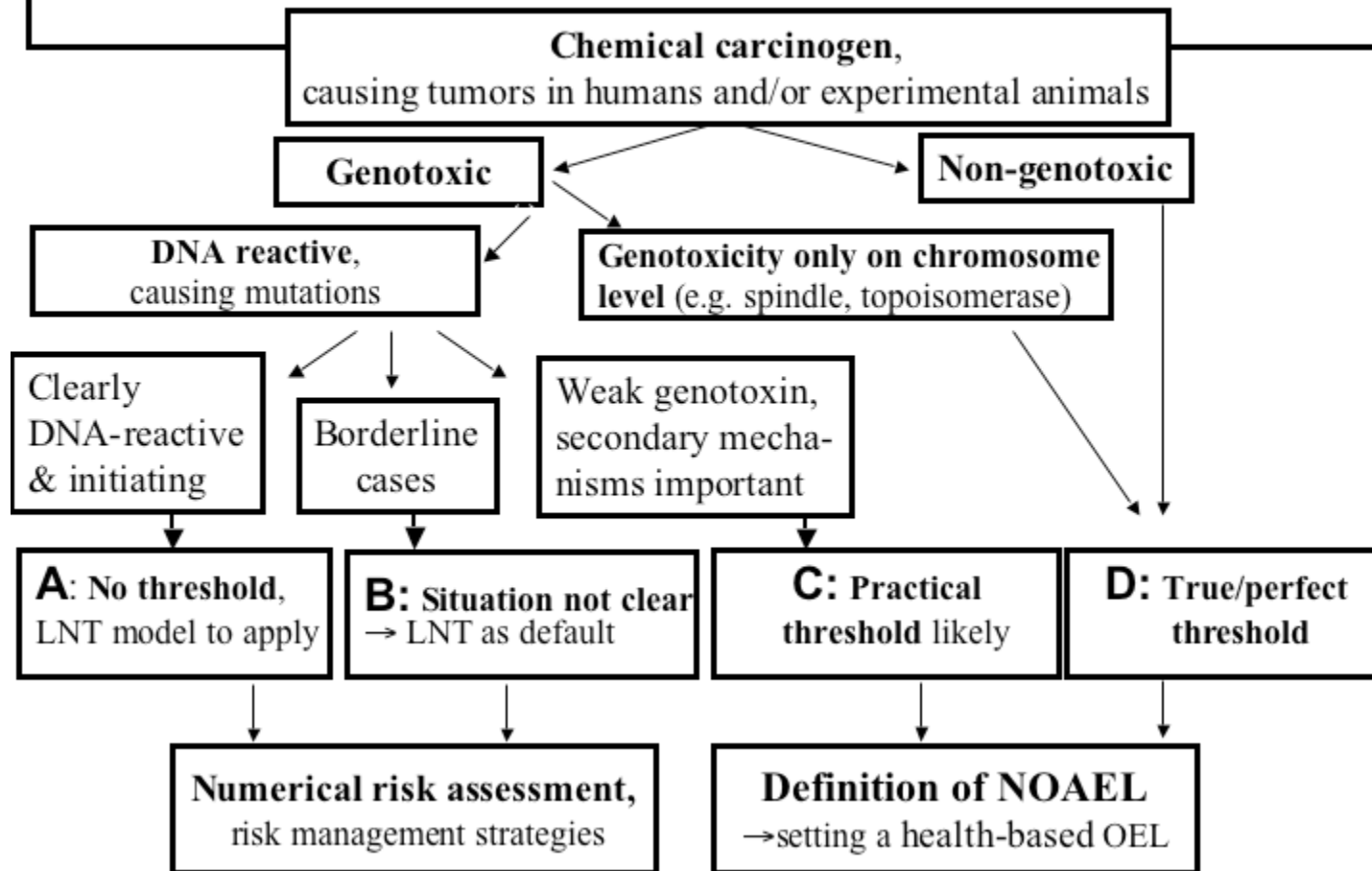


# Distinction of carcinogens in view of low-dose extrapolation and setting of health-based occupational exposure limits



# SCOEL and Carcinogens

- **Group A: Non-threshold genotoxic carcinogens;** for risk low-dose assessment the linear non-threshold (LNT) model appears appropriate.
- **Group B: Genotoxic carcinogens,** for which the existence of a threshold cannot be sufficiently supported at present. In these cases the LNT model may be used as a default assumption, based on the scientific uncertainty.
- **Group C: Genotoxic carcinogens** for which a practical threshold is supported

# SCOEL and Carcinogens

- **Group D: Non-genotoxic carcinogens and non DNA-reactive carcinogens; for these** compounds a true (“perfect”) threshold is associated with a clearly founded NOAEL.
- Health-based OELs are derived by SCOEL for carcinogens of groups **C and D**. If dataset allows, SCOEL might perform a risk assessment for carcinogens and/or mutagens placed in category **A and B**. In such cases, the corresponding SCOEL document (recommendation) will clearly state that a carcinogenic risk assessment has been carried out. It will contain a table summing up the concentrations explored and the associated risks calculated and won't show the frame with recommended OELs like it is the case for health-based values.