



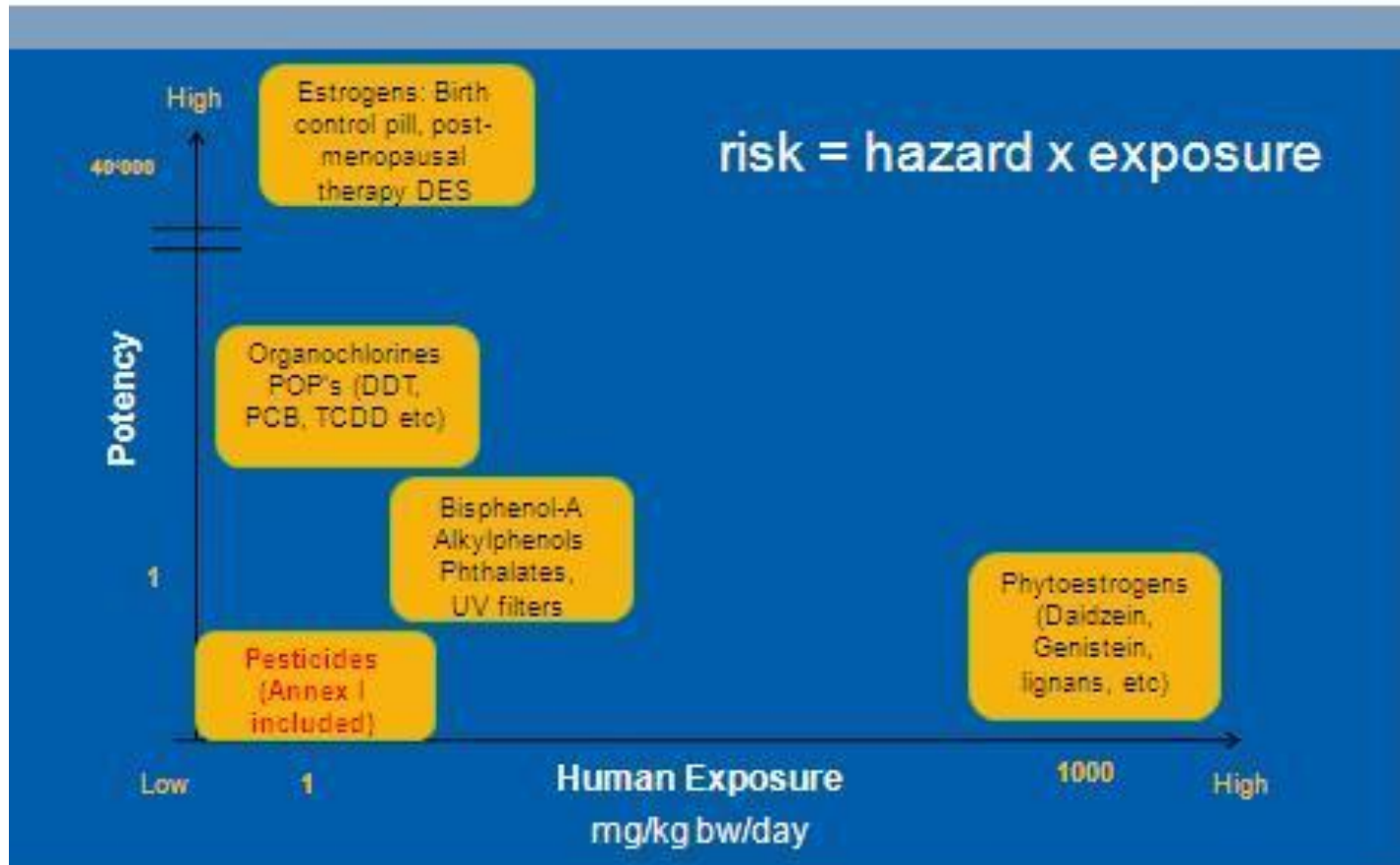
Endocrine disruptors: pesticides versus other substances

Comparison of perturbation potency and exposure for different endocrine disruptors



Endocrine disruptors: pesticides versus other substances

Pesticides versus other substances





Scientific references for exposure and endocrine disruption potency

Chemicals	Estimated daily intake	Potency rat uterotrophic assays	Reference
Isoflavones (Daidzein, Genistein)	8 mg/kg bw/day (children) 1 mg/kg bw/day (adults)	1	DFG 1998; Bolt, Degen 2001
Alkylphenols	0.1 -2 µg/kg bw/day	2	DFG 1998, Bolt, Degen 2001
Bisphenol A	~ 1 µg/kg bw/day	1	DFG 1998, Bolt, Degen 2001
Ethinyl estradiol (birth control pill)	0.5 -10 µg/kg bw/day	40000	Bolt, Degen 2001
Estrogen replacement therapy	15 µg/kg bw/day	40000	Degen, Bolt 2000, 2001
DES	80 - 2000 µg/kg bw/day	40000	Degen, Bolt 2000
Individual pesticides (Annex I)	TMDI ~ 1 µg/kg bw/day Range 0 – 30 µg/kg bw/day	low	Menard et al 2008