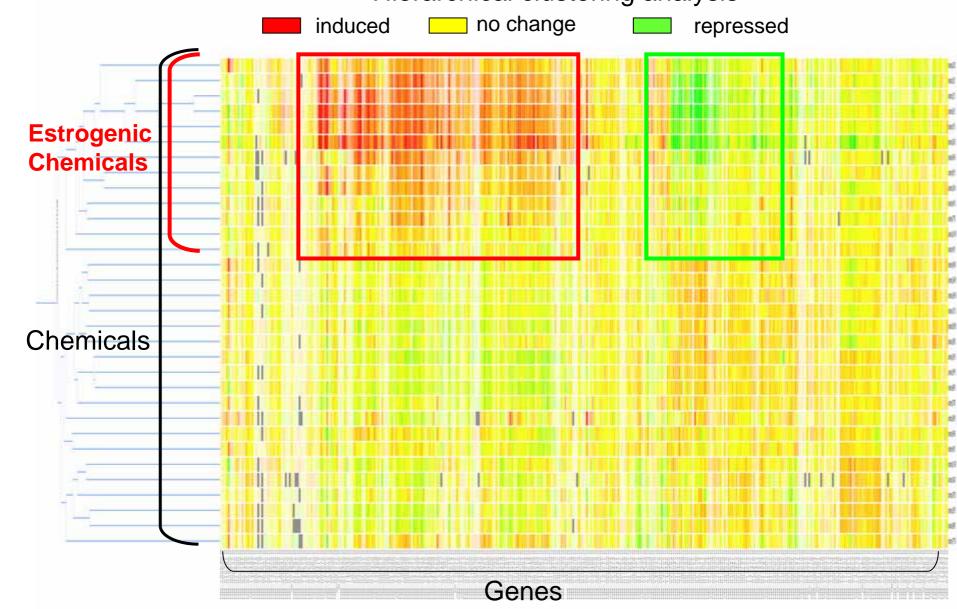
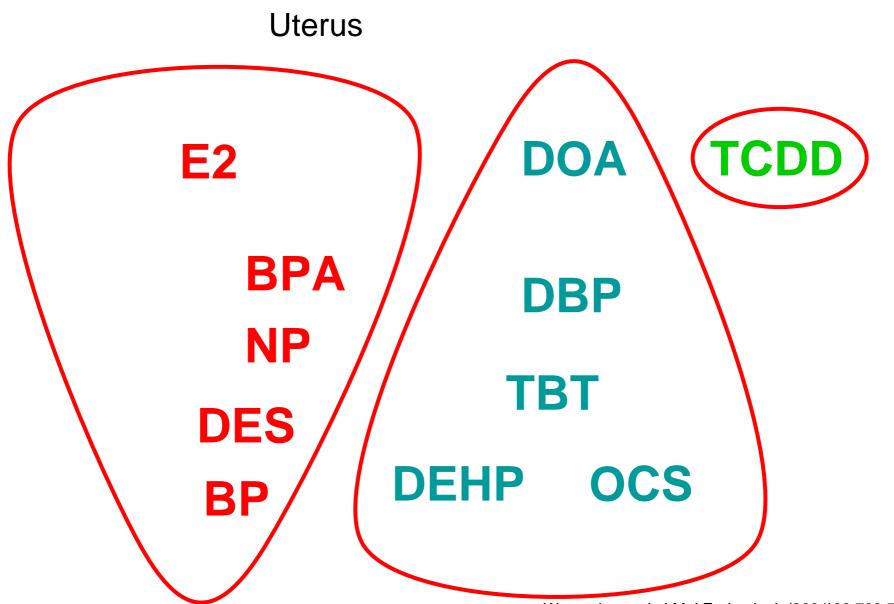
MOUSE

Evaluation of estrogenic activities by DNA microarry Hierarchical clustering analysis



Cluster of chemicals in uterus and liver



Watanabe et al. J Mol Endocrinol. (2004)33:763-71.

New approaches to endocrine disruptor issue

- Toxicogenomic approach
 - Estrogen and chemicals
 - Tissue specificity
 - Temporal specificity
- Ecotoxicogenomics
 - Comparative approach
 - Example of TBT and other chemicals
- Direct target identification
 - Old but new approach

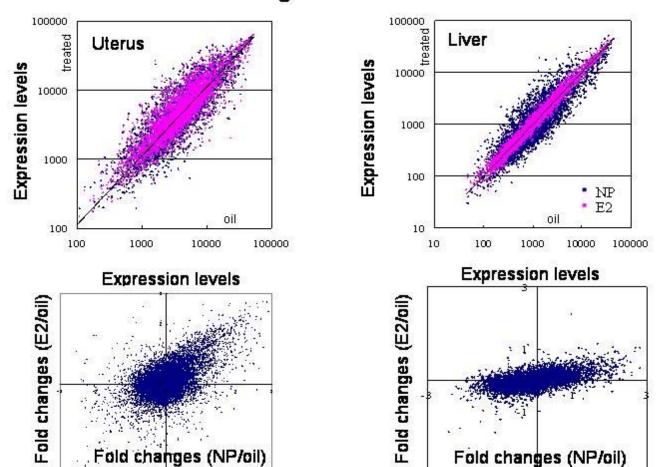
Mouse

Water flea
Daphnia magna

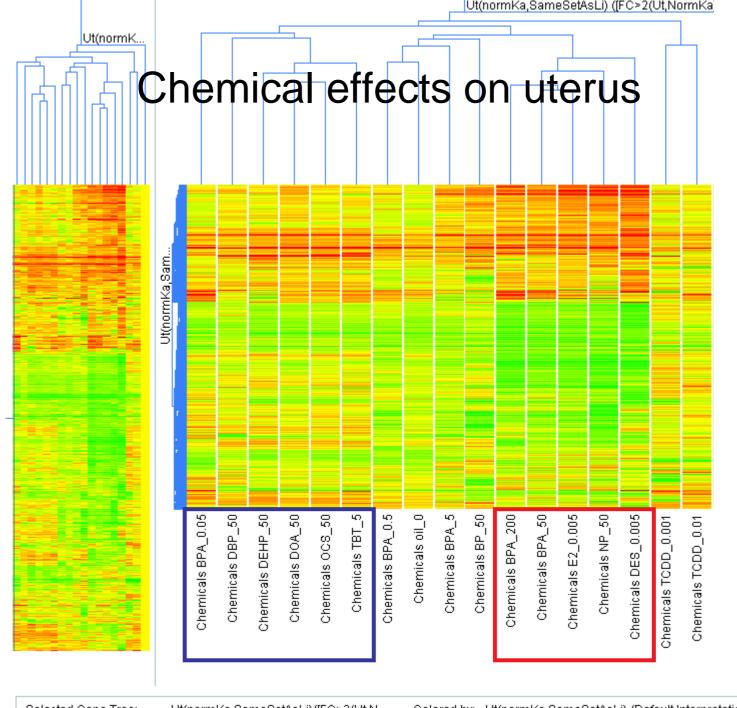
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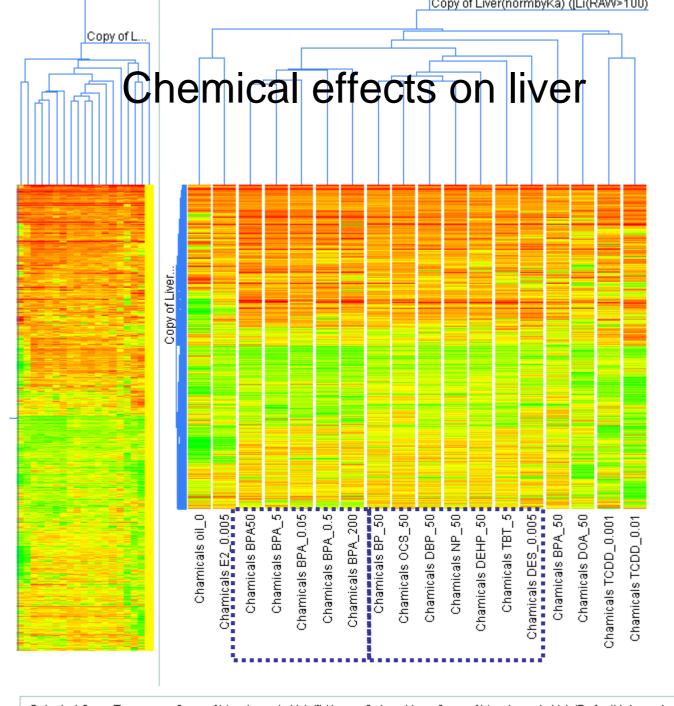
Human

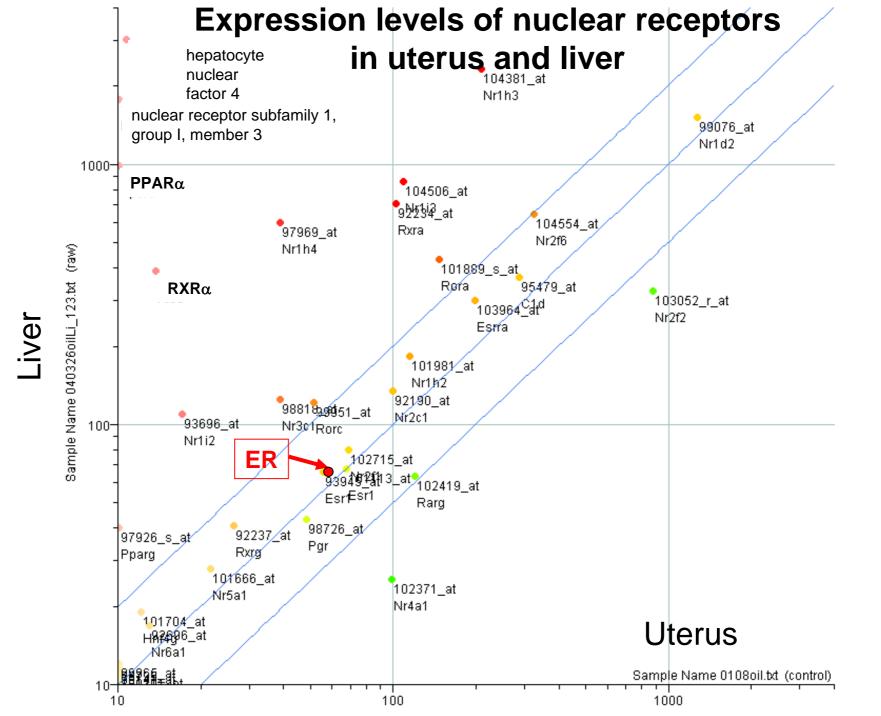
E2/NP induced genes in uterus and liver

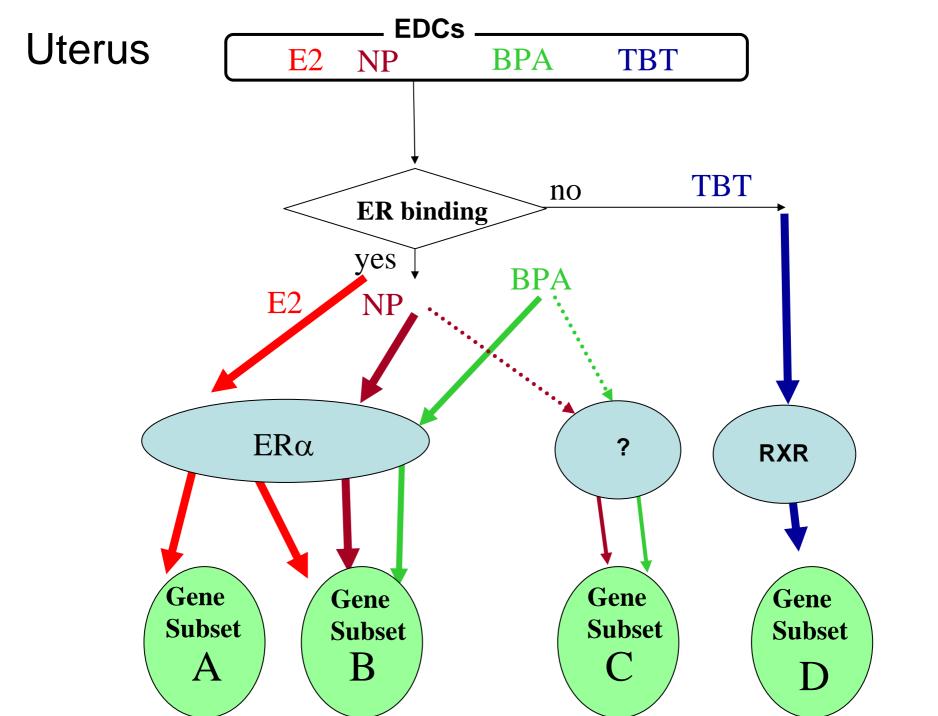


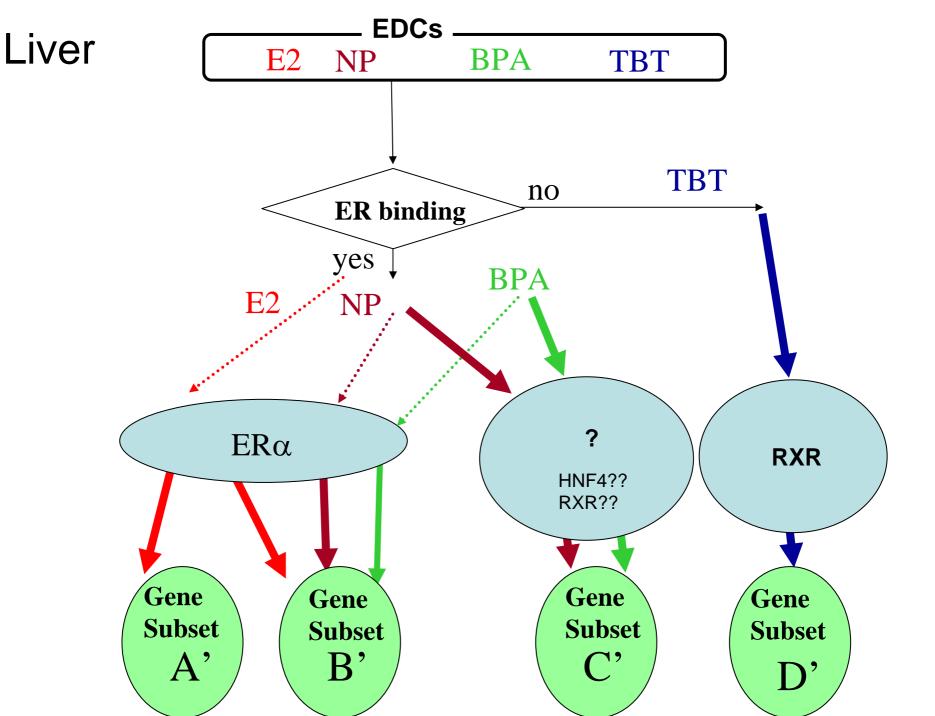
Watanabe et al. J Mol Endocrinol. (2004)33:243-52.











Cluster of chemicals in uterus and liver

