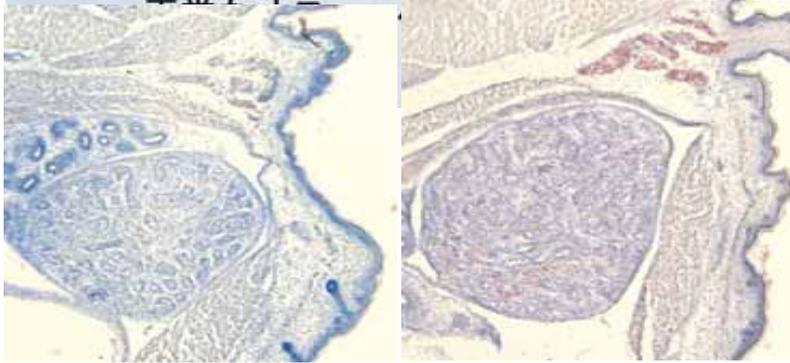
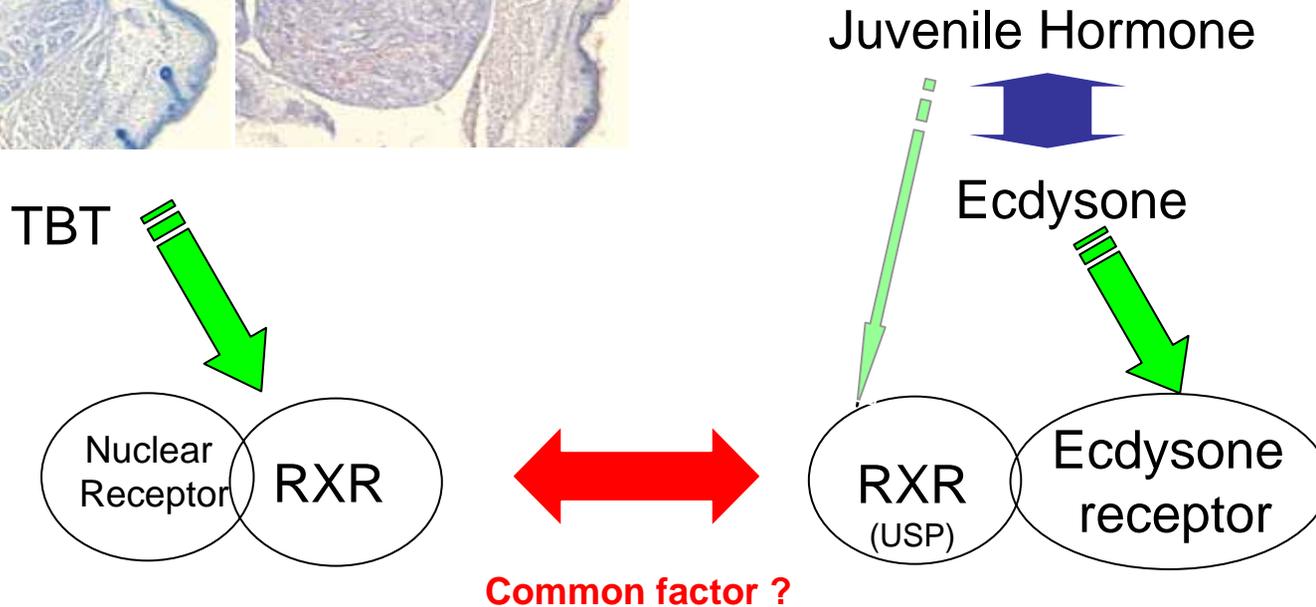


Comparative toxicogenomics



Male production in *Daphnia magna*





Ecotoxicogenomics

For DNA microarray analysis

- Gene information
 - EST (expressed sequence tags)
(mRNA sequences)
 - cDNA library
 - Genome sequence
- DNA Microarray
 - cDNA or oligonucleotide
 - Slide glass (coating, fixation)
- Sample
 - quality control
 - quantity (micrograms of total RNA)
- Analysis

Daphnia magna (Water flea)



- non-target organisms that is important in responses to environmental toxicant exposures

- Easy to maintain
- Easy to expose
- Short life cycle
- Used for evaluation of aquatic toxicity
- Found in the field
- Used as standard by EPA and OECD

and

Affected by JH analog