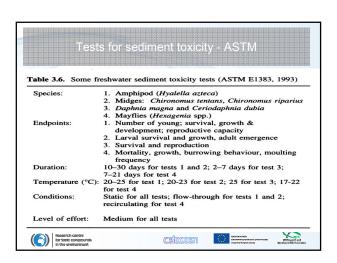
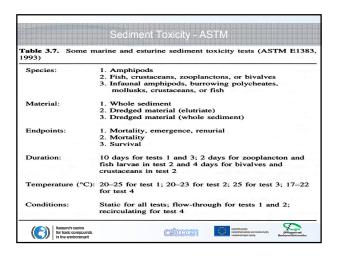
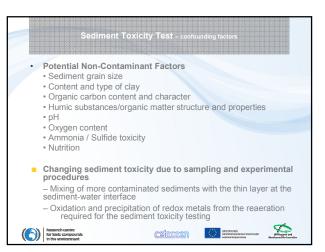
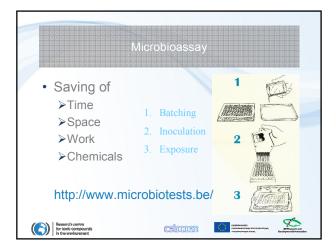


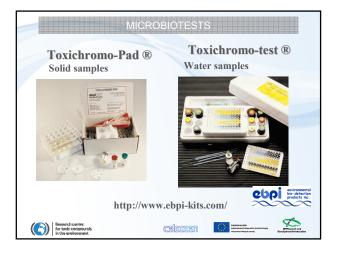
| | Psammechinus miliaris | Shore urchin |
|--------------------|-----------------------------|-------------------------|
| | Mercenaria mercenaria | Hard shell clam |
| | Mulinia lateralis | Dwarf surf clam |
| | Microtox (Vibrio fischerii) | Bacteria |
| Freshwater Pelagic | Ceriodaphnia dubia | Cladoceran, water flea |
| | Daphnia magna | Cladoceran, water flea |
| | Daphnia pulex | Cladoceran, water flea |
| | Pimephales promelas | Fish, fathead minnow |
| | Salvelinus fontinalis | Fish, brook trout |
| | Oncorhynchus mykiss | Fish, rainbow trout |
| Marine Pelagic | Atherinops affinis | Fish, topsmelt |
| | Cyprinodon variegatus | Fish, sheepshead minnow |
| | Menidia beryllina | Fish, silverside |





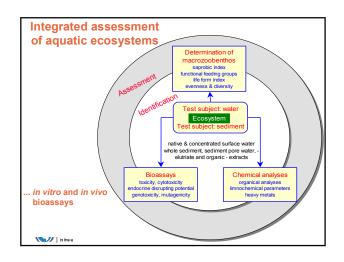


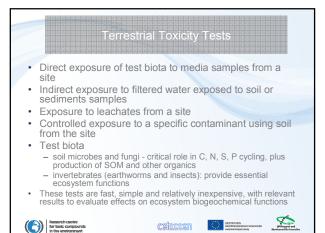


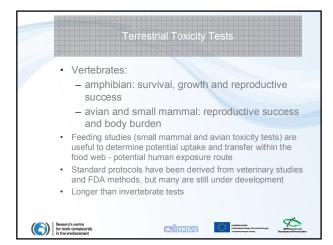


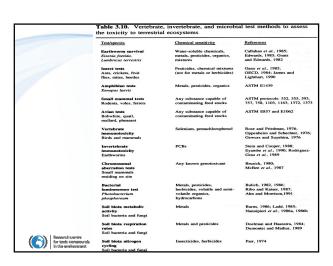














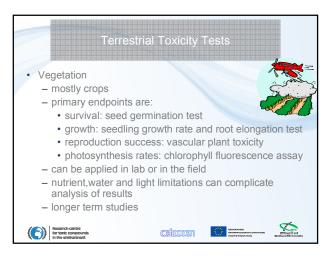


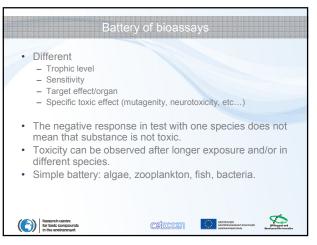
Table 3.11. Vegetation toxicity test methods to assess chemical impacts to terrestrial ecosystems

Test/species

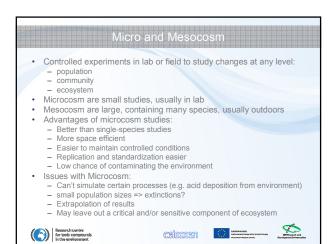
Chemical sensitivity

References

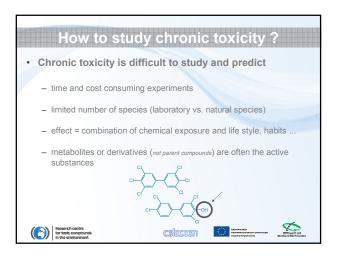
Seed germination
test:
Lettuce Lactuca semi-volatile organics, hydrocarbons
Lettuce, Lactuca semi-volatile organics, hydrocarbons
Seedling growth
tests: Purchased lettude seeds or site-specific collected seeds
Whole plant toxicity
tests: Purchased lettude seeds of seeds bydrocarbons
Whole plant toxicity
tests: Purchased lettude seeds of seeds bydrocarbons
Whole plant toxicity
tests: Purchased lettude seeds of seeds bydrocarbons
Whole plant toxicity
tests: Purchased lettude seeds of seeds bydrocarbons
Whole plant foxicity sets:
Plants from purchased seeds (cress, mustard) or site-specific collected seeds
Seeds (cress, mustard) or site-specific sollected seeds (cress, mustard) or site



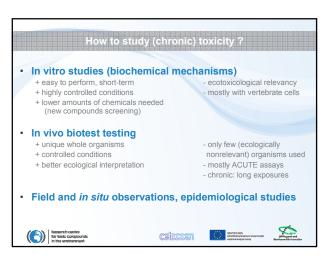


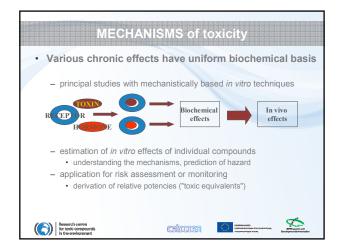


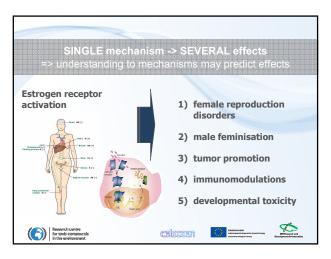


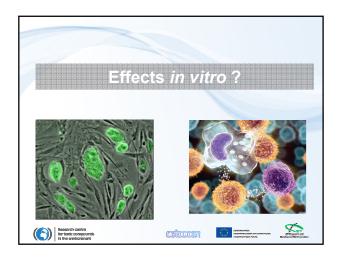


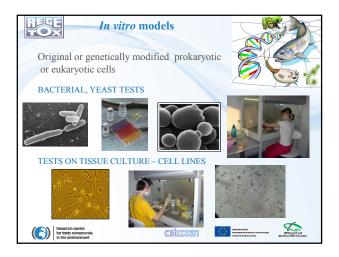




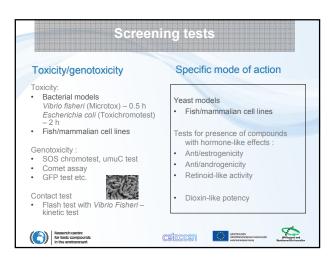


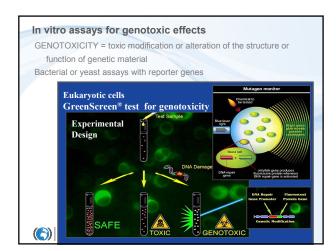


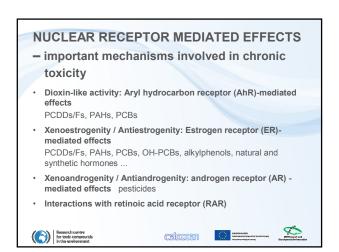


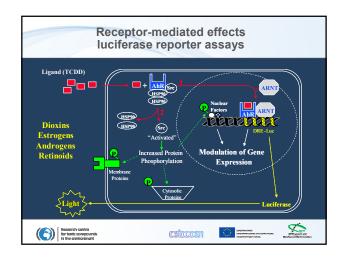


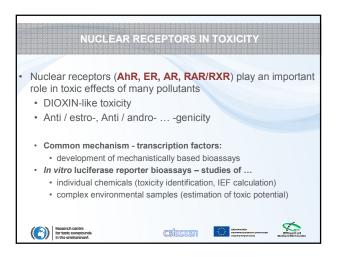


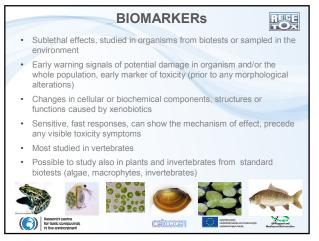


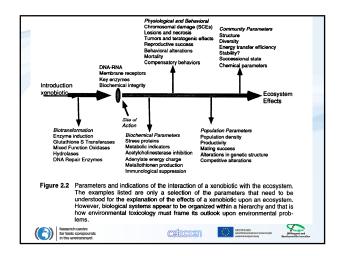


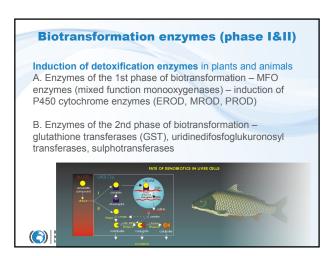


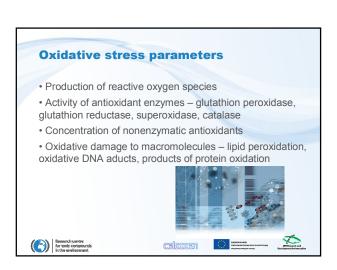


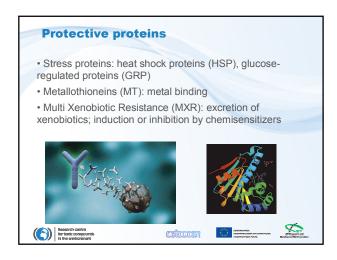


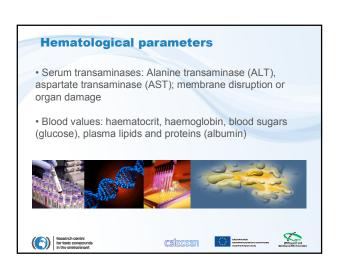


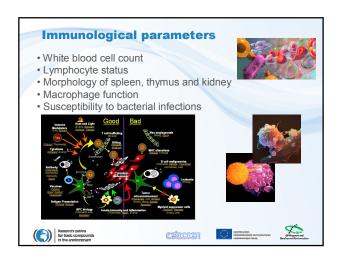


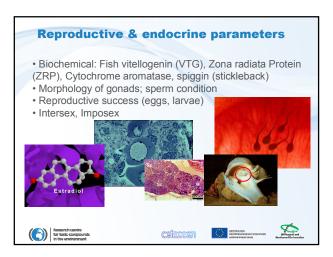


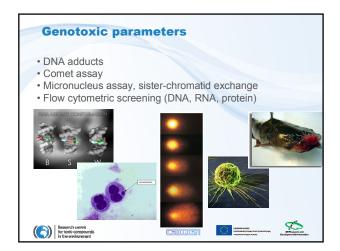


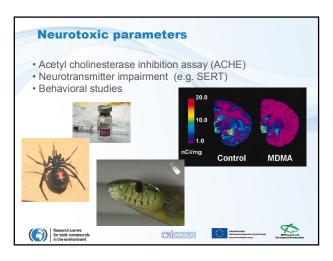


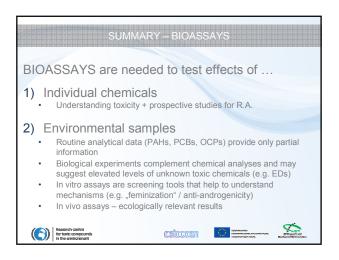














- Methods for assessing effect vary from
 - single chemical/single species
 - multiple stressors/multiple species
 - short-term/long-term
- Ability to relate cause and effect varies accordingly (easier for simpler system)
- Need studies at all scales (temporal and spatial) to have better understanding
- Be critical of a standard developed with just one methodology!







