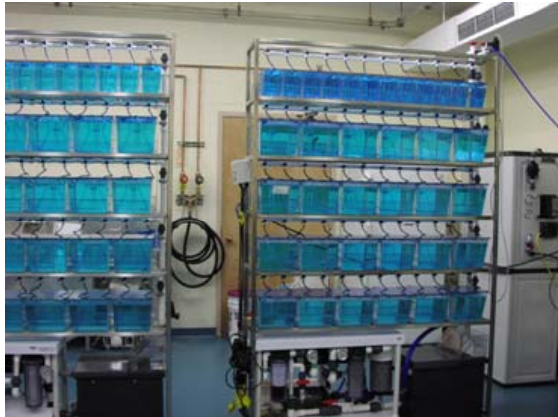
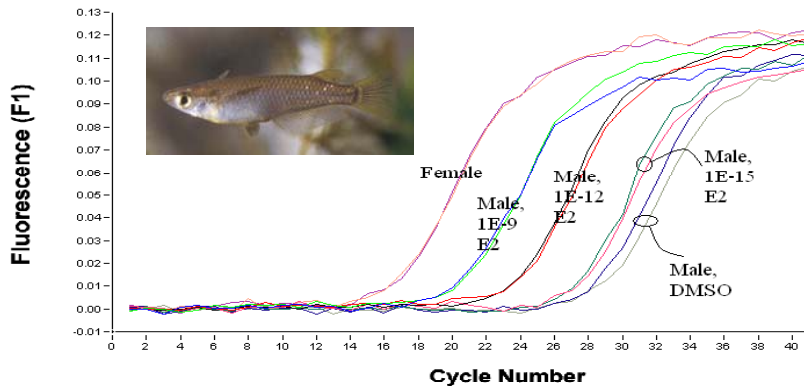


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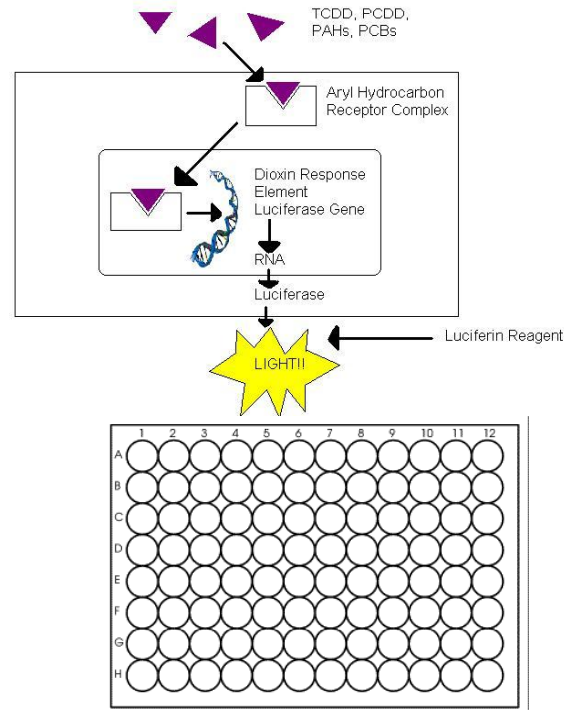


Japanese medaka fish are an ideal model organism for detecting chemicals in water and assessing the biological effects of those chemicals.



Real time Reverse transcriptase-PCR detects small changes in the expression of genes.

Cell-based assays provide a simple way of detecting the activity of a group of compounds that interact with the same transcription factor.



Cells are engineered to produce a signal, in this case light, in response to the presence of a group of chemicals, such as estrogens or dioxins.

Cells grown in a 96-well plate and exposed to an extract of the test water sample.



The cell response is measured in a plate reader and data sent to a spreadsheet.