



RDX risk assessment: long term exposure

This dataset provides an example of transcriptomic data after exposure to varying doses of a pure chemical, typical of the experimental design for a chemical risk assessment. RDX was selected because it is a bioaccumulative environmental contaminant known to reduce survival and growth of fish.

Dataset overview

Organism: Fathead minnow (*Pimephales promelas*)

Tissue: Ovary

Exposure conditions: Doses of RDX (cyclotrimethylenetrinitramine) (control, 0.01, 0.1, 0.7, 3, 5 mg/L)

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Citation: NA

Details on experimental design

Fathead minnows were exposed under continual flow for 21 days in tanks. Each tank contained 4 males and 4 females. After 21 days, RNA samples were collected from ovarian tissue in the female fish and assessed with Agilent microarrays (GPL9248). Each microarray profile represents ovarian RNA samples from an individual fish. See information listed at the NCBI GEO page for GSM1822989 for more details.