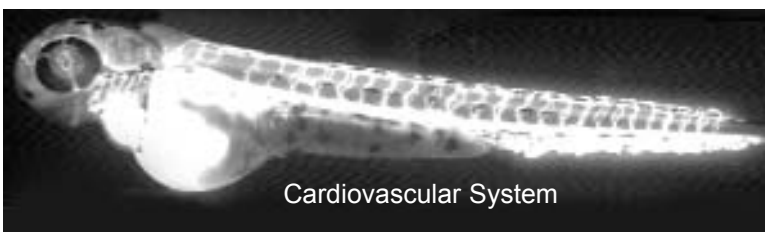
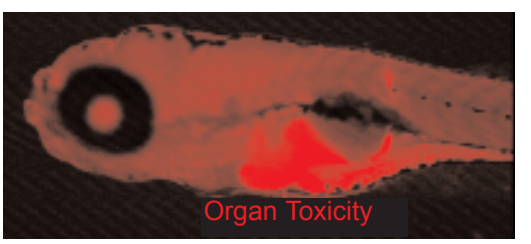
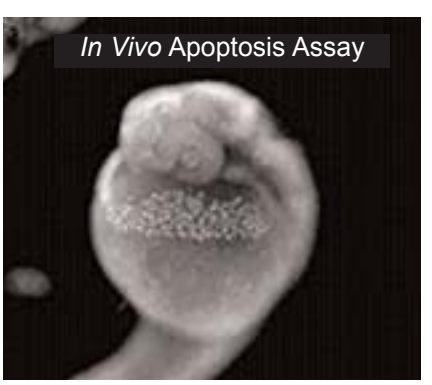
Zebrafish Bioassays





PHYLONIX



-FISH FIRST-

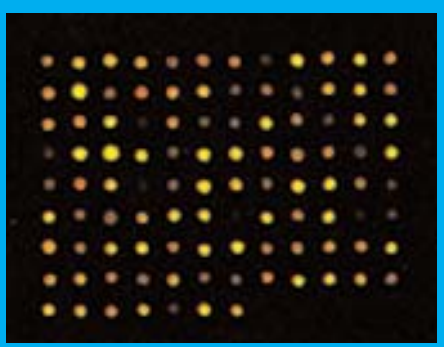
A New Era in Animal Testing

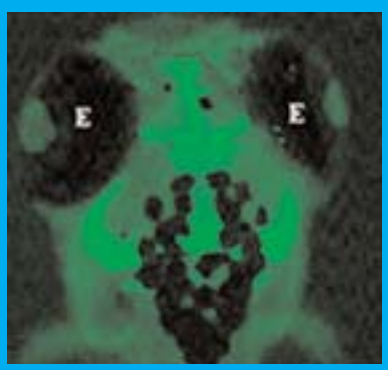
Phylonix is a Contract Research Organization providing *in vivo* zebrafish assays for drug discovery and pre-clinical testing. Our toxicologists, biochemists, developmental biologists, molecular biologists, and aquaculturists can perform general, organ and cell specific toxicity studies, pathology, gene profiling, target validation and behavioral studies. Custom assays can be designed for high throughput quantitative microplate analysis or multi-parameter visual assessment.

In Vivo Assays For:

- LC_{50}/EC_{50}
- Organ Specific Toxicity
- Developmental Toxicity
- Toxicogenomics
- Apoptosis
- Angiogenesis
- Gene Knock Down
- Disease Specific Phenotypes
- HTS of Chemical Libraries
- Custom Designed Studies

Targeted Toxicity Microarray





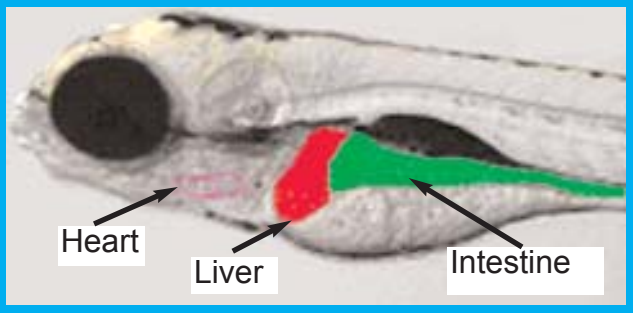
Neuronal Proliferation Detected by PCNA Antibody Staining

Advantages of Drug Testing in Zebrafish

Zebrafish develop rapidly. Three days after fertilization, embryogenesis is essentially complete. This rapid development is comparable to three months of human development. In addition, zebrafish have a relatively short generation time (2-3 months) and produce large clutches of embryos (100-200) per mating.

Key Advantages:

- Short Experimental Time
- Rapid Vertebrate Organogenesis
- Access to All Developmental Stages
- Easy Manipulation for Automated or Visual Screens
- Drug Administration Directly in Fish Water
- Statistically Significant Number of Animals per Test
- Small Amount of Drug Required



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