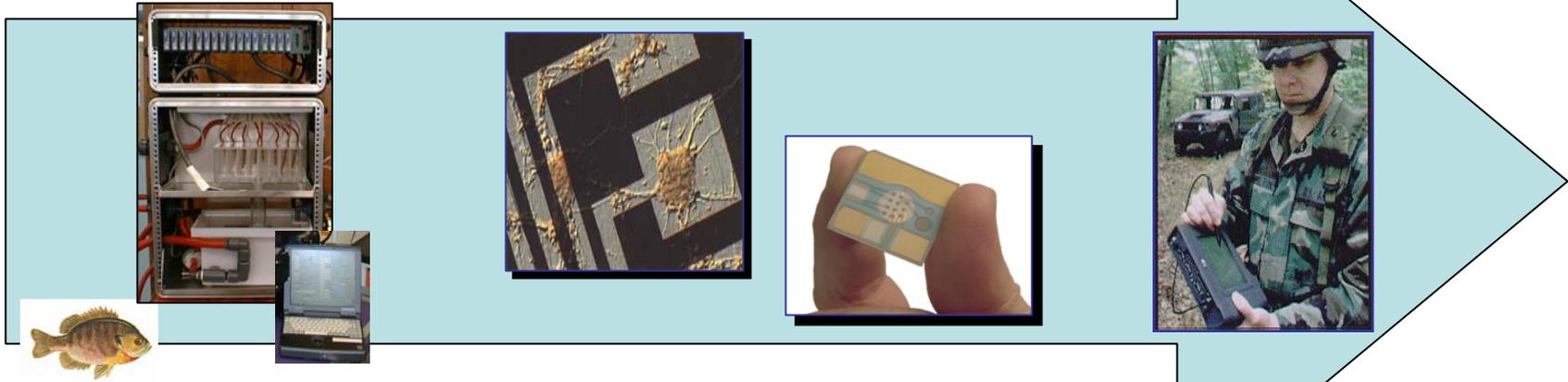


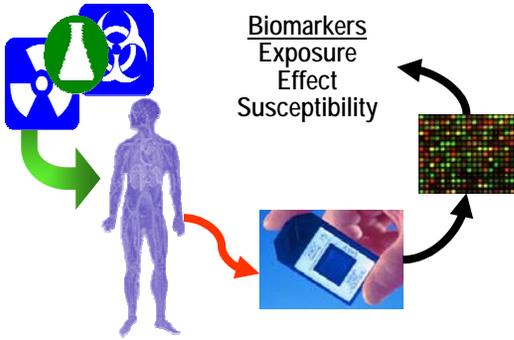
# ENVIRONMENTAL SENTINEL BIOMONITOR (ESB) DEVELOPMENT

Fish ESB System

Cell- and Tissue-Based ESB System

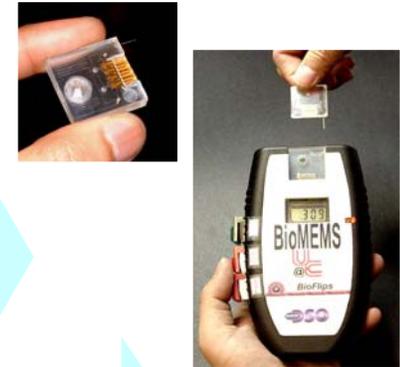


## BIOMARKER DEVELOPMENT



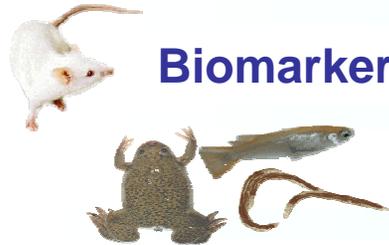
## Biomarker Applications (6.2/6.3)

- Input to ESB
- Soldier diagnostics



## Biomarker Validation (6.2)

- Mammalian animal models
- Human studies and clinical trials



## Biomarker Discovery (6.1)

### Alternative species use:

- High throughput
- Hypothesis generation

### Tools:

- Genomics/proteomics
- Bioinformatics

### Leveraging:

- ICB
- Others...