



# National Toxicology Program

U.S. Department of Health and Human Services

## NTP High Throughput Screening Assays Workshop

December 14-15, 2005

Hyatt Regency Crystal City at Reagan National Airport  
2799 Jefferson Davis Highway  
Arlington, VA

### December 14

8:30 AM

#### Introductions

CHAIR, DR. SHUK-MEI HO, UNIVERSITY OF CINCINNATI MEDICAL CENTER

8:45 AM

#### Purpose of the HTS Workshop

DR. CHRISTOPHER PORTIER, NIEHS

9:00 AM

#### Quantitative High-Throughput Screening (qHTS): Rethinking HTS for Chemical Genomics

DR. JAMES INGLESE, NIH

#### A Historical Review of High Throughput Screening and the Impact of Improved Analytical Methods

DR. WILLIAM JANZEN, AMPHORA DISCOVERY CORPORATION

#### Overview of *In Vitro* Toxicology Assays Relevant to NTP HTS Assays

DR. RAYMOND TICE, NIEHS

10:15 AM

#### BREAK

10:45 AM

#### Chemical Libraries

DR. DOUGLAS LIVINGSTON, DISCOVERY PARTNERS INC.

#### Virtual Screening of Environmental Compounds Based on Cheminformatics Analysis of Experimental High Throughput Screening Results

DR. ALEXANDER TROPSHA, UNIVERSITY OF NORTH CAROLINA

12:00 PM

#### LUNCH

1:00 PM

#### Development, Validation and Application of *In Vitro* Toxicogenomics Screens

DR. RICHARD BRENNAN, ICONIX INC.

#### Use of Toxicology Information in Public Health Decision-Making

DR. JOHN BUCHER, NIEHS

2:15 PM

#### BREAK

2:45 PM

**Breakout Groups Convene**

- Selection of targets and assays for high throughput screening
- Conduct of studies including chemical selection, study design, and analytical methods
- Data storage, analysis, and interpretation
- Application of data from high throughput screening assays in regulatory decision-making

5:00 PM

**ADJOURN**

**December 15**

8:30 AM

**Breakout Groups Reconvene**

11:30 AM

**LUNCH**

1:00 PM

**Presentations by Breakout Groups**

2:00 PM

**Open Discussion and Wrap-up**

MODERATOR, DR. CHRISTOPHER PORTIER, NIEHS

3:00 PM

**ADJOURN**