



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