

**SOT 53rd Annual Meeting and ToxExpo  
Phoenix, Arizona • March 23-27, 2014  
NIEHS and NTP Activities**

**NIEHS, NTP, and EHP Exhibit and Hosted Events**

**Sunday, March 23**

3:00 – 3:30 p.m. NIEHS-SOT Memorandum of Understanding Signing Ceremony  
North Building, North Ballroom 120D

**Monday, March 24**

9:00 a.m. – 4:30 p.m. Exhibit open to public – **Booth 1129/1127/1226**

9:30 a.m. – 4:00 p.m. Research Funding Information  
Room 127A

10:30 – 11:30 a.m. NTP Nonneoplastic Lesion Atlas Overview (Exhibitor Hosted Session)  
West Building, Room 101A  
Speaker: Mark Cesta

1:30 – 2:30 p.m. A Conversation with the Director of NIEHS: Linda Birnbaum, Ph.D.  
North Building, North Ballroom 120D

2:15 – 3:15 p.m. Advancing Environmental Health Data Sharing and Analysis (Exhibitor Hosted Session)  
West Building, Room 101C  
Speakers: Rebecca Boyles and Allen Dearry

**Tuesday, March 25**

8:30 a.m. – 4:30 p.m. Exhibit open to public – **Booth 1129/1127/1226**

9:00 – 11:00 a.m. NTP Nonneoplastic Lesion Atlas Demonstration  
Booth

9:30 a.m. – noon Research Funding Information  
Room 127A

Noon – 1:30 p.m. Brown Bag Lunch: Strategic for Funding Information  
Room 221

1:30 – 4:00 p.m. Research Funding Information  
Room 127A

## Wednesday, March 26

- 8:30 a.m. – 4:30 p.m. Exhibit open to public – **Booth 1129/1127/1226**
- 9:00 – 11:00 a.m. NTP Nonneoplastic Lesion Atlas Demonstration Booth
- 9:30 a.m. – 4:00 p.m. Research Funding Webinar Discussions  
Room 127A

## NIEHS and NTP Activities

### Sunday, March 23

**1:15 – 5:00 p.m.**, CC Room 121, Continuing Education, Chair Erik Tokar and Michael Waalkes  
**Stem Cell Models for Integrated Biology**

Abstract: 12

Stem Cells in Toxicology

Authors: E J Tokar, M P Waalkes, R Deans, K L Kolaja

**2:00 – 2:45 p.m.**, CC Room 102 West

**Undergraduate Education Program: Career Opportunities in Toxicology**

My Career – A Winding Road (Linda Birnbaum)

**3:00 – 3:30 p.m.**, CC North Ballroom 120D

**NIEHS-SOT Memorandum of Understanding Signing Ceremony**

### Monday March 24

**9:30 a.m. – 4:00 p.m.**, CC Room 127A

**Research Funding Information Room**

**10:30 – 11:30 a.m.**, CC Room 101A West

**Exhibitor Hosted Session: National Toxicology Program**

The National Toxicology Program Nonneoplastic Lesion Atlas

Speaker: Mark Cesta

**9:15 a.m. – noon**, CC North Ballroom 120D, Workshop Session

**New Science and Perspectives Surrounding Environmental and Occupational Exposures**

**9:15 a.m.**

Abstract: 53

New Concerns and New Science Addressing Environmental Asbestos Exposures

Authors: D J Carlin, R N Hines

**11:20 a.m.**

Abstract: 58

Challenges and Recommendations for Future Asbestos Research

Author: A Miller

## Monday March 24 (cont'd)

9:30 a.m.– 12:30 p.m., CC Exhibit Hall, Poster Session

### Alternatives to Mammalian Models I

Abstract: 161, Poster Board: 246A

Robotic MCF-7:WS8 Cell Proliferation Assay to Detect Agonist and Antagonist Estrogenic Activity

Authors: W Casey, C Zhi Yang, M Stoner, G J Kollessery, A Wong, G D Bittner

Abstract: 173b, Poster Board: 260

Profiling of the Tox21 10K Compound Library for Agonists and Antagonists of the Estrogen Receptor Alpha Signaling Pathway

Authors: R Huang, S Sakamura, M Thomas Martin, D Reif, R Judson, K Houck, W Casey, J Hsieh, K Shockley, P Ceger, J Fostel, K L Witt, W Tong, D Rotroff, A Simeonov, D J Dix, C P Austin, R Kavlock, R R Tice, M Xia

Abstract: 173d, Poster Board: 262

Analysis of High-Throughput, High-Content Data in a *C. Elegans*-Based Toxicity Assay

Authors: R Beaulieu Goldsmith, J Pirone, W A Boyd, J H Freedman

Abstract: 173h, Poster Board: 266

Performance of the BG1Luc and ER  $\beta$ -Lactamase Estrogen Receptor Transactivation Assays in Tox21

Authors: L Rinckel, W Casey, R Huang, J Hsieh, K Shockley, M Xia, R R Tice, P Ceger

Abstract: 173o, Poster Board: 273

Similar Toxicity of Three Fluoridation Compounds to the Nematode *Caenorhabditis Elegans*

Authors: W A Boyd, J R Rice, D Chandra, M Smith, P K Den Besten, J H Freedman

### Autoimmunity/Hypersensitivity

Abstract: 145b, Poster Board: 225

Contact Sensitizing Potential of 2-Ethylhexyl p-methoxycinnamate in Female BALB/c Mice

Authors: R P Frawley, D R Germolec, B McIntyre, M J Smith, K L White, T L Guo

### Biological Modeling

Abstract: 91, Poster Board: 126

Can the Association between Serum Perfluorooctanoic Acid (PFOA) and Delayed Menarche Be Explained on the Basis of Physiology and Pharmacokinetics?

Authors: H Wu, M Yoon, M P Longnecker, H J Clewell

Abstract: 92, Poster Board: 127

Evaluation of the Observed Association between the Early-Age Exposure to Polybrominated Diphenyl Ethers (PBDEs) and Altered Age at Menarche on the Basis of Kinetics

Authors: M Yoon, H Wu, M Luo, M P Longnecker, H J Clewell

### Biomarkers I

Abstract: 122, Poster Board: 166

Subchronic Aflatoxin B1 Exposure Produces Expression of Novel Liver Transcripts

Authors: J S Chang, D P Phadke, R Shah, S Sean Auerbach, R R Tice, B Alex Merrick

## Monday March 24 (cont'd)

9:30 a.m.– 12:30 p.m., CC Exhibit Hall, Poster Session

### Developmental Toxicology: Mammalian Models

Abstract: 198, Poster Board: 325

Development and Validation of an Analytical Method for Monobutylphthalate, a Metabolite of Di-n-Butylphthalate, in Harlan Sprague-Dawley Rat Pup and Fetus by Ultra-Performance Liquid Chromatography-Tandem Mass Spectrometry (UPLC-MS/MS)

Authors: R A Fernando, M A Silinski, T A Freed, F K Thomas, V G Robinson, S Waidyanatha

### Food Toxicology/Nutrition

Abstract: 343c, Poster Board: 566

Evaluation of Food-Relevant Chemicals in ToxCast Phase II

Authors: A L Forgacs, J Hsieh, K Houck

### Neurotoxicity: General

Abstract: 378c, Poster Board: 638

Effects of Organophosphorus Flame Retardants on Spontaneous Activity in Neuronal Networks Grown on Microelectrode Arrays

Authors: T J Shafer, K A Wallace, W Mundy, M Behl

1:00 – 4:30 p.m., CC Exhibit Hall, Poster Session

### Computational Toxicology and Data Integration I

Abstract: 440h, Poster Board: 175

Use of the Zebrafish Developmental Screen and Estimation of Internal Concentration to Assess Toxicity

Authors: J T Hamm, N Kleinstreuer, S Padilla, W Casey

### Genetic Toxicity Testing

Abstract: 444, Poster Board: 204

Identification of Genotoxic Compounds Using Isogenic DNA Repair Deficient DT40 Cell Lines in a Quantitative High-Throughput Screening (qHTS) Platform

Authors: K Nishihara, J Zhao, R Huang, K L Witt, R R Tice, S Takeda, M Xia

Abstract: 467g, Poster Board: 234

Development of a High-Throughput Homogenous Assay to Detect DNA Double-Strand Breaks

Authors: B Goodwin, T Khuc, R Huang, K L Witt, R R Tice, M Xia

### Nanotoxicology: General and Carbon-Based

Abstract: 603g, Poster Board: 469

Multiwalled Carbon Nanotubes Induce NLRP3 Inflammasome-Dependent Expression of Pro-Fibrotic Markers in Primary Human Bronchial Epithelial Cells

Authors: S Hussain, S Sangtian, R John Snyder, J D Marshburn, A Rice, J C Bonner, S Garantziotis

## Monday March 24 (cont'd)

9:30 a.m.– 12:30 p.m., CC Exhibit Hall, Poster Session

### **Nanotoxicology: General and Carbon-Based (cont'd)**

Abstract: 603h, Poster Board: 470

Mucociliary Differentiation May Protect Human Bronchial Epithelia from Multiwalled Carbon Nanotube-Induced Toxicity

Authors: R John Snyder, S Hussain, S Sangtian, A Rice, S Randell, S Garantziotis

1:30 – 2:30 p.m., CC North Ballroom 120D

**Featured Session: A Conversation with the Director of NIEHS: Linda Birnbaum, Ph.D.**

1:30pm – 3:00pm, CC, Room 127 B&C

### **Invitation: Meeting of Researchers to Discuss Environmental Contributors to Autism**

Come share ideas and perspectives on this topic with NIEHS program staff including Cindy Lawler, Annette Kirshner, and Astrid Haugen.

2:00 – 4:45 p.m., CC Room 121, Symposium Session

### **Advancing Clinical and Translational Toxicology and Application of Biomarkers**

Abstract: 703

Perinatal Exposures to Environmental Pollutants and Children's Health

Authors: J J Heindel, T Schug, K Gray

2:15 – 3:15 p.m., CC Room 101C West

### **NIEHS Exhibitor Hosted Session**

Advancing Environmental Health Data Sharing and Analysis

Speakers: Becky Boyles and Allen Dearry

3:45 – 4:45 p.m., CC Room 102 West

### **Undergraduate Education Program: Career Opportunities in Toxicology**

Small Group Discussions (Mary Gant)

## Tuesday, March 25

9:30 a.m. – 4:00 p.m., CC Room 127A

### **Research Funding Information Room**

Noon – 1:30 p.m., CC Room 221

### **Brown Bag Lunch on Funding – Mainly for new investigators**

9:00 a.m. – 12:30 p.m., CC Exhibit Hall, Poster Session

### **Alternatives to Mammalian Models II**

Abstract: 1062a, Poster Board: 545

Adverse Outcome Pathway for Embryonic Vascular Disruption and Alternative Methods to Identify Chemical Vascular Disruptors during Development

Authors: T L Tal, N Kleinstreuer, P Harris, J Olin, A Palekar, T Toimela, R Sarkanen, T Heinonen, T B Knudsen, S Padilla

Abstract: 1062c, Poster Board: 547  
Predicting Skin Sensitization Using 21st-Century Toxicology  
Authors: N Kleinstreuer, J A Strickland, W Casey

### **Developmental Toxicology: Mammalian Models II**

Abstract: 1087o, Poster Board: 641  
Evaluation of Environmental Chemicals Computationally Predicted to Disrupt Angiogenesis  
Authors: T Heinonen, T Toimela, T B Knudsen, N Kleinstreuer, R Sarkanen

**Tuesday, March 25**

**9:00 a.m. – 12:30 p.m.**, CC Exhibit Hall, Poster Session (cont'd)

### **Developmental Toxicology: Mammalian Models II (cont'd)**

Abstract: 1087r, Poster Board: 644  
Peripheral Blood Changes in Rats Developmentally Exposed to Volatile Organic Compounds: Shifts in Leukocyte Distribution  
Authors: E Quist, A James Filgo, D H King, G Travlos, C D Bortner, M I Sifre, G Kissling, S E Fenton

### **Endocrine Toxicology**

Abstract: 1063, Poster Board: 601  
Profiling of Compound-Induced Modulation of ERalpha-Coregulator Interaction as a Means to Compare Bisphenol A Analogs  
Authors: R Houtman, R van Beuningen, N Bastiaensen, T Khuc, B Goodwin, C T Teng, R R Tice

### **Epigenetics**

Abstract: 954e, Poster Board: 369  
CYP2C9 Regulation by Epigenetic Modification of Histone H3-Involvement of Med25 as the Key Regulator  
Authors: N Englert, G Luo, S Surapureddi, J A Goldstein

Abstract: 955, Poster Board: 401  
Global DNA Methylation Profiling of Hepatocellular Carcinomas from Ginkgo biloba Extract-Treated and Vehicle Control B6C3F1 Mice  
Authors: S Bhusari, A Reddy Pandiri, D Mav, R Shah, H Hong, T Ton, D Malarkey, R Sills, M Hoenerhoff

Abstract: 958, Poster Board: 404  
Genome-Wide DNA Methylation Changes Influence Gene Expression in Arsenic-Transformed Human Prostate Cells  
Authors: B Alex Merrick, E J Tokar, D P Phadke, R Shah, X Wang, M A Bostrom, O Gordon, G M Wright, M Burke, K E Pelch, S Sean Auerbach, R R Tice, M P Waalkes

### **Gene Regulation and Signal Transduction I**

Abstract: 922d, Poster Board: 325  
The Effects of Five Days of Tetrabromobisphenol A (TBBPA) Treatment in Female Rats  
Authors: J M Sanders, G A Knudsen, S J Coulter, J K Dunnick, L S Birnbaum

## **Inflammation in Disease**

Abstract: 1006b, Poster Board: 460

Oxidized Lipid Macromolecules by Lipopolysaccharide (LPS) May Identify a Biomarker of Inflammatory Oxidative Insult

Authors: M B Kadiiska

Tuesday, March 25

9:00 a.m. – 12:30 p.m., CC Exhibit Hall, Poster Session (cont'd)

#### Natural Products: In Vivo

Abstract: 813a, Poster Board: 137

Toxicity in Mice and Rats Associated with Inhalation of the Flavor and Fragrance Ingredient Alpha-Pinene

Authors: C V Rider, M D Stout, R A Herbert

#### Pharmacokinetics and Disposition

Abstract: 877, Poster Board: 246

Development and Validation of an Analytical Method to Quantitate 2-Ethylhexyl p-Methoxycinnamate in Rat Plasma: Application to a Preliminary Toxicokinetic Study

Authors: C Redman Crutch, C Dillon, A Gutierrez, F Hubbard, R Mathias, D Logan, B Sitzmann, J Cobb, K Dunn, J Roseman, S Kerns, D Slade, K Aillon, J Algaier, R Harris, B Collins, S Waidyanatha

12:00 – 1:30 p.m., CC Room 221, Featured Session

#### Strategies for Submitting Successful Grants Brown Bag Luncheon

Speaker: Annette Kirshner

12:15 – 1:15 p.m., (Non-NIH), CC Room 101A West

#### From Systematic Review to Assessment Development: Managing Big (and Small) Datasets with DRAGON:

Presented by ICF International

1:00 – 4:30 p.m., CC Exhibit Hall, Poster Session

#### Arsenic

Abstract: 1297h, Poster Board: 476

Chronic Arsenic Exposure *In Vitro* Causes Acquisition of Multiple Tumor Cell Characteristic in Human Pancreatic Epithelial Cells

Authors: W Qu, M P Waalkes

Abstract: 1297i, Poster Board: 477

Chronic Arsenic Exposure Induces Cancer Cell Characteristics in Human Peripheral Lung Epithelial Cells

Authors: R J Person, E J Tokar, M P Waalkes

Abstract: 1297j, Poster Board: 478

Silencing KRAS Overexpression in Arsenic-Transformed Prostate Stem Cells Results in Signs of Malignant Phenotype Reversal

Authors: N Nini Olive Ngalame, E J Tokar, M P Waalkes

Abstract: 1297k, Poster Board: 479

Differential DNA Methylation in Arsenic- or Cadmium-Transformed Malignant Prostate Epithelial Cells

Authors: K E Pelch, E J Tokar, B Merrick, M P Waalkes

Abstract: 1297l, Poster Board: 480

Arsenic Induces an Oncogenic Phenotype in Human Breast Epithelia through an Estrogen Receptor-Independent Pathway by Aromatase Activation

Authors: Y Xu, E J Tokar, M P Waalkes

**Tuesday, March 25 (cont'd)**

**1:00 – 4:30 p.m.**, CC Exhibit Hall, Poster Session (cont'd)

### **Carcinogenesis II**

Abstract: 1110f, Poster Board: 129

Evaluation of a Potential Mechanism for Formaldehyde-Induced Leukemia in C3B6.129F1-Trp53tm1Brd Mice  
Authors: D L Morgan, D Dixon, M P Jokinen, D H King, H Price, G Travlos, R A Herbert, J Edgar French, M P Waalkes

### **Inhalants and Cardiopulmonary: Agents and Methods**

Abstract: 1229d, Poster Board: 333

Macrophage Solubilization of Indium-Containing Particles as an In Vitro Correlate to Pulmonary Toxicity *In Vivo*

Authors: W M Gwinn, W Qu, R W Bousquet, H Price, C Shines, G Taylor, M P Waalkes, D L Morgan

### **Inhalants and Cardiopulmonary: PM, Ozone, and Diesel Exhaust**

Abstract: 1232, Poster Board: 339

Health Effects Associated with Inhalation Exposure to Diesel Emission Generated with and without CeO2 Nano Fuel Additive

Authors: S Jean Snow, M Schladweiler, J McGee, V L Bass, D Nash, J Weinstein, R Willis, W Linak, C E Wood, S Elmore, R F Thomas, D B Miller, T Krantz, C King, C Johnson, J Morrison, J Richards, A Ledbetter, I Gilmour, U P Kodavanti

### **Metals I: Zn, Cd, Hg**

Abstract: 1245, Poster Board: 403

Gene Expression and Pathway Analysis of Cadmium Exposure in Human Hepatocarcinoma Cells  
Authors: L Cartularo, F Lulicht, H Sun, T Kluz, J H Freedman, M Costa

Abstract: 1264b, Poster Board: 424

MTF-1 Regulates Fra-1 mRNA Expression after Cadmium Exposure

Authors: E Braithwaite, J H Freedman

### **Receptors**

Abstract: 1149, Poster Board Number: 220

Quantitative Profiling of Environmental Chemicals and Drugs for Farnesoid X Receptor Activity

Authors: C Hsu, J Zhao, R Huang, J Hsieh, J T Hamm, X Chang, K Houck, M Xia

**1:30 – 4:15 p.m.**, CC Room 125, Workshop Session

### **Advancing Clinical and Translational Toxicology and Application of Biomarkers**

Abstract: 1416

Developmental Toxicity from Chemical Mixtures: Research to Application in Susceptible Populations

Authors: D J Carlin, M Mumtaz

## Tuesday, March 25 (cont'd)

4:45 – 6:00 p.m., CC Room 106C West  
**ToxExpo 2015 Exhibit Space Selection Process**

7:30 – 9:00 p.m., Sheraton Encanto  
**Tox ShowDown**

## Wednesday, March 26

9:30 a.m. – 4:00 p.m., CC Room 127A  
**Research Funding Webinar Discussions**

9:00 -11:45 a.m., CC Room 121, Symposium Session  
**New Science and Perspectives Surrounding Environmental and Occupational Exposures**

Abstract: 1464

Three Dimensions of Nanomaterial Pulmonary Toxicity: Innate Immunity, TLRs, and Inflammasomes

Authors: J M Brown, S S Nadadur

9:00 – 11:45 a.m., CC Room 129, Workshop Session

**Enhancing Strategies for Risk Assessment**

Abstract: 1486

The Office of Health Assessment and Translation Approach to Evidence Integration for Assessment of Noncancer Health Effects; 10:00 AM (Andrew Rooney)

Authors: A A Rooney, A L Boyles, M S Wolfe, K Thayer

9:00 a.m. – 12:30 p.m., CC Exhibit Hall, Poster Session

### **Biomarkers II**

Abstract: 1522, Poster Board: 138

Serial Measurements of BPA and BPS in Texas Mother-Infant Pairs from the 3rd Trimester of Pregnancy through the 4th Month of Lactation

Authors: A J Schechter, D Cherry, C Liao, S Yun, K Kannan, J Moye, N Thiex, W C Shropshire, L S Birnbaum

### **Gene Regulation and Signal Transduction II**

Abstract: 1736a, Poster Board: 524

Patterns of Gene Coregulation across Multiple Tissues Undergoing Toxicological Challenge

Authors: S Sean Auerbach, D L Svoboda, B Alex Merrick, R R Tice

Abstract: 1736b, Poster Board: 525

Regulation of Human CYP2C9 Expression by Electrophilic Stress Involves AP-1 Activation and DNA Looping

Authors: N L Makia, S Surapureddi, R A Prough, J A Goldstein

Abstract: 1736e, Poster Board: 528

RNA-Seq Analysis of the Functional Link between Vascular Disruption and Adverse Developmental Consequences

Authors: J Franzosa, R S Settivari, R Ellis-Hutchings, N Kleinstreuer, K Houck, E W Carney, T B Knudsen

Wednesday, March 26

9:00 a.m. – 12:30 p.m., CC Exhibit Hall, Poster Session (cont'd)

### Nonpharmaceuticals: Safety Evaluation

Abstract: 1606, Poster Board: 265

Formulation, Analysis Method Development, and Validation for Dimethylaminoethanol Bitartrate in Gavage Dose Formulations

Authors: J C Blake, S D Cooper, M C Best, R A Fernando, V G Robinson, S Waidyanatha

Abstract: 1616a, Poster Board: 276

Development of Formulation and Analysis Methods for Triphenyl Phosphate (TPP) in Rodent Feeds for Toxicology Studies

Authors: B Collins, A Mitchell, W Vandaveer, V Ault, N Doll, S Beckwith, N Pearson, A Mainey, K Aillon, J Algaier, R Harris

Abstract: 1616c, Poster Board: 278

Toxicity of Tris(Chloropropyl)phosphate (TCPP) Dietary Exposure for 13 Weeks in Harlan Sprague-Dawley Rats and B6C3F1/N Mice

Authors: K Ryan, A Reddy Pandiri, D Giri, K Cimon, M Buccellato, L Marie Fomby, M Hejtmancik, D Y Vasconcelos, K L Witt, G Travlos, D Malarkey, M D Stout

Abstract: 1616g, Poster Board: 282

*In Vitro* Assessment of Cardiotoxicity Hazard of Environmental Compounds Using Fast Fluorescence Imaging of Beating iPSC-Derived Cardiomyocytes

Authors: O Sirenko, K Ryan, F Parham, M Behl, B D Anson, E F Cromwell, R R Tice

### Reproductive Toxicology: Male

Abstract: 1713b, Poster Board: 460

Effect of Vincamine on the Reproductive System of Harlan Sprague-Dawley Rats and B6C3F1/N Mice

Authors: I Surh, B McIntyre, M J Hoenerhoff, D M Fallacara, D Y Vasconcelos, M Vallant, P Chan

Abstract: 1713c, Poster Board: 461

Dose Addition Predicts Effects of Phthalate Mixture on Male Reproductive Tract Development and Associated Fetal Testis Gene Expression in Rats

Authors: K L Howdeshell, C V Rider, J R Furr, V S Wilson, L Earl Gray

Noon – 1:20 p.m., CC Room 126, Education-Career Development Session

### Training and Continuing Education for the “Total Toxicologist”: How Do We Optimize Training and Educational Opportunities for Different Job Sectors?

From Research to Regulatory Science: Toxicology Careers in Government (Dori Germolec)

## Wednesday, March 26 (cont'd)

1:00 – 4:30 p.m., CC Exhibit Hall, Poster Session

### **Nanotoxicology: *In Vitro***

Abstract: 1973e, Poster Board: 435

Comparing Bioactivity Profiles of Diverse Nanomaterials Based on High-Throughput Screening (HTS) in ToxCast™

Authors: A Wang, J Franzosa, I Shah, D L Filer, N Kleinstreuer, S Marinakos, K Houck

### **Nanotoxicology: *In Vivo***

Abstract: 2004a, Poster Board: 472

Thirty-Day Whole-Body Inhalation Toxicity and Tissue Burden Study of Multiwalled Carbon Nanotubes in Harlan Sprague-Dawley Rats and B6C3F1 Mice

Authors: B C Sayers, M D Stout, M F Cesta, N A Moore, G L Baker, K M Patton, B K Hayden, J A Dill, N J Walker

### **Oxidative Injury and Redox Biology**

Abstract: 1804c, Poster Board: 140

Role of Cystine/Glutamate Transporter Slc7a11 in Bleomycin-Induced Lung Inflammation and Fibrosis in Mice

Authors: H Cho, L Miller-DeGraff, S R Kleeberger

### **Risk Assessment II**

Abstract: 1829, Poster Board: 165

Evaluating Study Quality: A Comparison of the TOXR Tool and OHAT Approaches

Authors: R Blain, A S Bale, A L Boyles, A A Rooney, D Segal, C Skuce, M Selgrade

Abstract: 1831I, Poster Board: 179

Development of an Open-Source Integrated Test Strategy for Skin Sensitization Potency

Authors: J Pirone, M Smith, N Kleinstreuer, T A Burns, J Strickland, Y Dancik, R Morris, L Rinckel, W Casey, J Jaworska

4:30 – 5:50 p.m., CC Room 126, Informational Session

### **Leadership in Science: Skills and Styles**

Linda Birnbaum

7:00 – 8:30 p.m., Sheraton Phoenix Ballroom C

### **President's Reception**

Thursday, March 27

8:30 a.m. – noon, CC Exhibit Hall, Poster Session

### **Computational Toxicology and Data Integration II**

Abstract: 2273i, Poster Board: 462

A Database of In Vivo Estrogenic Activity for EDSP21 Reference Chemicals

Authors: P Ceger, N Kleinstreuer, X Chang, B Jones, J T Hamm, L Rinckel, D Rotroff, W Casey

### **Computational Toxicology and Data Integration III**

Abstract: 2273j, Poster Board: 463

Using Weighted Entropy to Rank Chemicals in Tox21 Phase II BG1 ER-Luc Estrogen Receptor Assays

Authors: K Shockley

Abstract: 2273q, Poster Board: 472

Screening Environmental Chemicals in Metabolically Competent Human-Derived Hepatocytes

Authors: J Jack, J Franzosa, P Gokalbhai Kothiya, J Bonzo, P Hurban, S Siferd, S Ferguson, J Liu, S D Hester, A Lake, K Houck, J F Wambaugh

Abstract: 2273r, Poster Board: 473

Prioritization of the Tox21 10k Library for Xenobiotic Metabolism and Toxicity Studies Using In Silico Metabolism Models

Authors: S Ferguson, N Kleinstreuer, M Lawless, R R Tice

Abstract: 2273bb, Poster Board: 483

A Data Analysis Pipeline for Tox21 Quantitative High-Throughput Screening Assays and Its Application to Toxicity Profiling of Flame Retardants

Authors: J Hsieh, A Sedykh, M Behl, R Huang, M Xia, R R Tice

### **Metals in the Environment**

Abstract: 2224, Poster Board: 336

Development and Validation of a Method to Measure a Suite of Organotin Compounds in Serum from Danish Women of Child Bearing Age

Authors: V G Robinson, K Thayer, K Levine, R A Fernando, S Waidyanatha

### **Reproductive Toxicology: Female**

Abstract: 2196a, Poster Board: 240

Mammary Gland Histopathology of the Harlan Sprague-Dawley Rat: A Model for Mammary Tumor Susceptibility Studies following Perinatal Endocrine Disrupting Compound Exposures

Authors: J Paul Stanko, S E Fenton

Abstract: 2196b, Poster Board: 241

Early-Life Mammary Effects in Male and Female Rats following Low-Dose Maternal and Drinking Water Exposure to a VOC Mixture

Authors: A James Filgo, E Quist, S E Fenton

## **Reproductive Toxicology: Female (cont'd)**

Abstract: 2196c, Poster Board: 242

Altered Mammary Development As a Result of In Utero Exposure to a High and Low Dose of Inorganic Arsenic (iAs) in the CD-1 Mouse

Authors: D Katrese Robinson, S E Fenton, K Rodriguez, H Yao

Abstract: 2196d, Poster Board: 243

Prenatal PFOA Exposure Mediates Effects in the Murine Mammary Gland through Endocrine Disruption

Authors: M B Macon, S E Fenton

## **Risk Assessment III**

Abstract: 2250b, Poster Board: 418

Development of Reverse Toxicokinetic Models to Correlate In Vitro and In Vivo Estrogen Receptor Activity

Authors: X Chang, N Kleinstreuer, P Ceger, J T Hamm, B Jones, L Rinckel, W Casey

Abstract: 2250k, Poster Board: 427

Use of Text-Mining and Machine Learning to Prioritize the Results of a Complex Literature Search

Authors: B Howard, R Shah, V Walker, S Holmgren, K Thayer

## **Skin**

Abstract: 2182c, Poster Board: 222

Identification of Putative Skin Sensitizers Using QSAR Models Enriched by In Vitro Data

Authors: A Tropsha, V Alves, E Muratov, D Fourches, J Strickland, N Kleinstreuer, C Andrade