NIEHS, NTP, and EHP Exhibit
Booth 2226/2228/2127/2129
CC Exhibit Hall

ToxExpo Hours:
- Monday, March 23: 9:00 AM - 4:30 PM
- Tuesday, March 24: 8:30 AM - 4:30 PM
- Wednesday, March 25: 8:30 AM - 4:30 PM

Research Funding Information Room
CC Room 11A
- Tuesday, March 24: 9:30 AM - 4:30 PM
- Wednesday, March 25: 9:30 AM - 4:30 PM

Sunday, March 22, 8:05 AM to 5:00 PM, CC Room 33B

Education Outreach Activities and Events: Undergraduate Education Program
Chairperson(s): Kristini Miles, Kimberly-Clark Corporation, Roswell, GA; and Jorge Naciff, Procter & Gamble Company, Mason, OH.

2:05 PM to 2:55 PM
Career Roundtable: Opportunities in Toxicology
Chair: Robert Casillas, MRIGlobal, Mason, OH.
Team 1
Academia: Neera Tewari-Singh, University of Colorado Denver, Denver, CO; Government: Mary Martin Gant, NIEHS, Bethesda, MD; Industry: Sharon Holt Daily, GSK, Research Triangle Park, NC.

Sunday, March 22, 8:15 AM to 12:00 Noon, CC Ballroom 6C

Continuing Education: Demystifying Mixtures: From Study Design Selection to Risk Assessment Application
Chairperson(s): Jane Ellen Simmons, US EPA, Research Triangle Park, NC; and Cynthia V. Rider, NIEHS, Research Triangle Park, NC.

8:15 AM

8:40 AM
Berenbaum and Beyond: Concepts and Theories Underlying Mixtures Research and Cumulative Risk Assessment. C. V. Rider. NIEHS, Research Triangle Park, NC.
**Monday, March 23, 9:15 AM to 12:00 Noon, CC Ballroom 6F**

**Workshop Session: Linking Early-Life Stages: The First Step toward Lifecourse Risk Assessment Approaches for Protecting Vulnerable Populations**

**Chairperson(s):** Sally P. Darney, ORD, US EPA, Research Triangle Park, NC; and Harvey J. Clewell, The Hamner Institutes for Health Sciences, Research Triangle Park, NC.

**Abstract 39**

10:18 AM  
**Improving Infant Exposure and Health Risk Estimates: Using Serum Data to Predict Polybrominated Diphenyl Ether Concentrations in Breast Milk.** S. Marchitti¹, J. S. LaKind², D. Q. Naiman³, C. M. Berlin⁴, E. P. Hines⁵, S. E. Fenton⁶, and J. F. Keneke⁷. ¹NERL, US EPA, Athens, GA; ²LaKind Associates, LLC, Catonsville, MD; ³Johns Hopkins University, Baltimore, MD; ⁴Penn State College of Medicine, Hershey, PA; ⁵US EPA, Research Triangle Park, NC; and ⁶NIEHS, Research Triangle Park, NC.

**Monday, March 23, 9:15 AM to 12:00 Noon, CC Room 6E**

**Workshop Session: The US Tox21 Collaboration: Advances Made and Lessons Learned**

**Chairperson(s):** Linda S. Birnbaum, NIEHS, Research Triangle Park, NC; and Robert Kavlock, US EPA/ORD, Washington, DC.

**Abstract 42**

9:15 AM  
**The US Tox21 Collaboration: Advances Made and Lessons Learned.** L. S. Birnbaum¹, and R. Kavlock². ¹NIEHS, Research Triangle Park, NC; and ²US EPA/ORD, Washington, DC.

**Introduction.** L. S. Birnbaum¹, and R. Kavlock². ¹NIEHS, Research Triangle Park, NC; and ²US EPA/ORD, Washington, DC.

**Abstract 44**

9:50 AM  
**Tox21 Phase II: Testing the 10K Library in Quantitative High-Throughput Screening Assays.** A. Simeonov. Division of Preclinical Innovation, National Center for Advancing Translational Sciences, Rockville, MD. Sponsor: R. Tice.

**Abstract 45**

10:15 AM  
**Tox21 Phase III: Improving on Biological Coverage, Relevance, and Public Outreach.** R. S. Paules. NIEHS/NTP, Research Triangle Park, NC.

**Abstract 46**

10:40 AM  
**Prioritization and Predictive Toxicology: Estrogen Receptor Active Compounds.** W. Casey. NIEHS, Durham, NC.
Monday, March 23, 9:15 AM to 12:00 Noon, CC Room 8

Platform Session: Disposition and Pharmacokinetics

Chairperson(s): Matthew W. Himmelstein, Investigative Sciences, DuPont Haskell Global Centers for Human Health and Environmental Sciences, Newark, DE; and Amy Roe, Procter & Gamble Co., Williamstown, KY.

Abstract 60
9:15 AM
Preliminary Toxicokinetic Evaluation of Hydroxyurea in Hsd:Sprague-Dawley (SD) Rat Dams and Their Offspring for Designing Toxicokinetic and Toxicity Studies. T. Fennell¹, S. Black¹, M. A. Silinski¹, R. A. Fernando¹, B. McIntyre², V. G. Robinson², and S. Waidyanatha². ¹RTI International, Research Triangle Park, NC; and ²Division of the National Toxicology Program, NIEHS, Research Triangle Park, NC.

Monday, March 23, 9:30 AM to 12:30 PM, CC Exhibit Hall

Poster Session: Biotransformation and Cytochrome P450

Chairperson(s): Patrick Iversen, Oregon State University, Corvallis, OR.

Abstract 73; Poster Board 106
Role of CYP2B in Phenobarbital-Induced Hepatocyte Proliferation in Mice. L. Li¹, X. Bao², M. Negishi³, and X. Ding¹. ¹College of Nanoscale Science and Engineering, SUNY Polytechnic Institute, Albany, NY; ²Wadsworth Center, New York State Department of Health, Albany, NY; and ³National Institute of Environmental Health Sciences, NIH, Research Triangle Park, NC.

Poster Session: Liver

Chairperson(s): Martin J. Ronis, University of Arkansas for Medical Sciences, Little Rock, AR.

Abstract 99; Poster Board 135

Poster Session: Alternatives to Mammalian Models I - Cardio, Neuro, Developmental

Chairperson(s): Xuefei Cao, DGMT, FDA/NCTR, Jefferson, AR; and Tamara L. Tal, Integrated Systems Toxicology Division, US EPA, Research Triangle Park, NC.

Abstract 236; Poster Board 402
Identification of Chemical Vascular Disruptors during Development Using an Integrative Predictive Toxicity Model, Zebrafish, and In Vitro Functional Angiogenesis Assays. T. L. Tal¹, C. Kilty², N. Kleinstreuer³, T. Toimela³, R. Sarkanen³, T. B. Knudsen⁵, B. Kennedy², and S. Padilla¹. ¹ISTD, US EPA, Research Triangle Park, NC; ²University College Dublin, Dublin, Ireland; ³FICAM, University of Tampere, Tampere, Finland; ⁴ILS, Inc./NICEATM, Research Triangle Park, NC; and ⁵NCCT, US EPA, Research Triangle Park, NC.
Abstract 242; Poster Board 408
Airway Epithelial Injury, Fibroblast Changes, and Cytokine/Chemokine Profiles Induced by Exposure of Human EpiAirway-FT Tissues to Diacetyl Vapors. W. M. Gwinn1, G. Flake1, R. W. Bousquet2, and D. L. Morgan1. 1NTP Laboratory, NIEHS, Research Triangle Park, NC; and 2Alion Science and Technology Corp, Research Triangle Park, NC.

Abstract 254; Poster Board 420
Organophosphate Flame Retardants Affect Development and Neurotoxicity in Alternative Models. M. Behl1, J. Hsieh1, T. J. Shafer2, W. Mundy2, W. A. Boyd1, J. H. Freedman1, S. Hunter2, K. A. Jarema2, S. Padilla2, and R. R. Tice1. 1Toxicology, NIH, Research Triangle Park, NC; and 2NHEERL, EPA, Research Triangle Park, NC.

Abstract 256; Poster Board 422
Developmental Toxicity of Phase I and II ToxCast™ Chemicals to Caenorhabditis elegans. W. A. Boyd1, M. Smith2, C. A. Co2, J. Pirone2, J. R. Rice1, and J. H. Freedman1. 1NIEHS, Research Triangle Park, NC; and 2Social & Scientific Systems, Durham, NC.

Abstract 257; Poster Board 423
Comparative Effects of Brominated and Organophosphate Flame Retardants on Caenorhabditis elegans Feeding, Reproduction, and Growth. J. R. Rice1, M. Behl1, C. A. Co2, M. Smith2, J. H. Freedman1, and W. A. Boyd1. 1NIEHS, Research Triangle Park, NC; and 2Social & Scientific Systems, Durham, NC.

Poster Session: Metals
Chairperson(s): Joshua Edwards, Department of Pharmacology, Midwestern University, Downers Grove, IL; and Mindy F. Reynolds, Washington College, Chestertown, MD.

Abstract 324; Poster Board 543

Abstract 338; Poster Board 557
Characterization of Aqueous Formulations of Tetra- and Pentavalent Forms of Vanadium at Various pH to Aid in the Test Article Selection for Toxicology Studies. E. Mutlu1, T. Cristy2, S. Graves2, M. J. Hooth1, and S. Waidyanatha1. 1Division of the National Toxicology Program, National Institute of Environmental Health Sciences, Research Triangle Park, NC; and 2Battelle Memorial Institute, Columbus, OH.
Monday, March 23, 9:30 AM to 12:30 PM, CC Exhibit Hall (cont’d)

Poster Session: Stem Cell Biology in Toxicology Research

Chairperson(s): Weida Tong, US FDA/NCTR, Jefferson, AR.

Abstract 398; Poster Board 653

Using Human-Induced Pluripotent Stem Cells (iPSC) in High-Content Screening (HCS) to Prioritize Chemicals for Developmental Neurotoxicity Testing. R. R. Tice¹, O. Sirenko², F. Parham¹, E. F. Cromwell², J. Hsieh¹, S. DeLaura³, M. Behl¹, and K. Ryan¹. ¹NIH, NIEHS/DNTP, Research Triangle Park, NC; ²Molecular Devices, Sunnyvale, CA; and ³Cellular Dynamics International, Madison, WI.

Monday, March 23, 12:00 Noon to 1:30 PM, CC Room 5B

Research Funding Luncheon: Multiple Perspectives on the Grant Process

Essentials in Grantsmanship from a Program Officer’s Perspective
Annette Kirshner, NIEHS Health Scientist Administrator, Research Triangle Park, NC

The NIH Application Review Process from a SRO’s Perspective
Janice Allen, NIEHS Scientific Review Branch, Research Triangle Park, NC

Monday, March 23, 12:10 PM to 1:30 PM, CC Ballroom 6E

Roundtable Session: Confronting and Overcoming the Barriers to Sharing Toxicological Research Data for Risk Assessment in the 21st Century

Chairperson(s): George M. Woodall, NCEA, US EPA, Research Triangle Park, NC; and Gary W. Miller, Emory University, Atlanta, GA.

Abstract 411

Confronting and Overcoming the Barriers to Sharing Toxicological Research Data for Risk Assessment in the 21st Century. G. M. Woodall¹, G. W. Miller², A. Simeonov³, R. A. Becker⁴, A. Pope⁵, P. J. Hakkinen⁶, P. H. Zigas⁷, and A. A. Rooney⁸. ¹US EPA, Research Triangle Park, NC; ²Emory, Atlanta, GA; ³NIH, Bethesda, MD; ⁴ACC, Washington, DC; ⁵BYU, Provo, UT; ⁶NLM, Bethesda, MD; ⁷ECU, Greenville, NC; and ⁸NIEHS, Research Triangle Park, NC.

Monday, March 23, 1:00 PM to 4:30 PM, CC Exhibit Hall

Poster Session: Alternatives to Mammalian Models II—Skin, Eye, Liver

Chairperson(s): Seyoum Ayehunie, MatTek Corporation, Ashland, MA; and Andreas G. Schepky, Toxicology In Vitro, Beiersdorf AG, Hamburg, Germany.

Abstract 421; Poster Board 108

ICCVAM Integrated Decision Strategy for Skin Sensitization. J. M. Matheson¹, Q. Zang², J. Strickland³, N. Kleinstreuer², D. G. Allen², A. B. Lowit³, Jacobs⁴, and W. Casey⁵. ¹CPSC, Rockville, MD; ²ILS/NICEATM, Research Triangle Park, NC; ³EPA/OPP, Washington, DC; ⁴FDA/CDER, Silver Spring, MD; and ⁵NTP/NICEATM, Research Triangle Park, NC.
Abstract 422; Poster Board 109

In Silico Predictions of Skin Sensitization Using OECD QSAR Toolbox. J. Strickland\textsuperscript{1}, N. Y. Choksi\textsuperscript{1}, D. G. Allen\textsuperscript{1}, and W. Casey\textsuperscript{2}. \textsuperscript{1}ILS/NICEATM, Research Triangle Park, NC; and \textsuperscript{2}NTP/NICEATM, Research Triangle Park, NC.

Abstract 447; Poster Board 134

3D In Vitro Model of HepG\textsuperscript{2} Cell Spheroids for Long-Term Exposure Studies and Toxicogenomics-Based Prediction of Drug-Induced Liver Injury. S. Ramaiahgari\textsuperscript{1,2}, S. Wink\textsuperscript{1}, M. Coonen\textsuperscript{3}, J. Kleinjans\textsuperscript{3}, L. Price\textsuperscript{1,4}, and B. van de Water\textsuperscript{1}.
\textsuperscript{1}Leiden University, Maastricht, Netherlands; \textsuperscript{2}NTP/BSB, Research Triangle Park, NC; \textsuperscript{3}Maastricht University, Maastricht, Netherlands; and \textsuperscript{4}OCellO, Leiden, Netherlands.

Poster Session: Biomonitoring and Exposure Assessment
Chairperson(s): Janis Hulla, SPK-ED-EC, USACE, Sacramento, CA.

Abstract 491; Poster Board 208

Formulation Development and Validation of an Analytical Method for a Combination-Dose Formulation of Emtricitabine, Tenfovir Disoproxil Fumarate, and Efavirenz in Support of Rodent Toxicology Studies. J. C. Blake\textsuperscript{1}, J. Gilliam\textsuperscript{1}, D. Coleman\textsuperscript{1}, R. A. Fernando\textsuperscript{1}, V. G. Robinson\textsuperscript{2}, B. McIntyre\textsuperscript{2}, and S. Waidyanatha\textsuperscript{2}.
\textsuperscript{1}RTI International, Research Triangle Park, NC; and \textsuperscript{2}Division of National Toxicology Program, NIEHS, Research Triangle Park, NC.

Poster Session: Biological Modeling
Chairperson(s): Andy Nong, Health Canada, Ottawa, ON, Canada.

Abstract 740; Poster Board 622

Evaluating Epidemiological Associations between High Blood Concentrations of Poly Brominated Diphenyl Ether (PBDEs) and Altered Timing of Menarche: Are They Meaningful? H. J. Clewell\textsuperscript{1}, C. Peeples\textsuperscript{1}, G. Song\textsuperscript{1}, M. Yoon\textsuperscript{1}, H. Wu\textsuperscript{1}, M. Verner\textsuperscript{2}, M. E. Andersen\textsuperscript{1}, and M. P. Longnecker\textsuperscript{3}.
\textsuperscript{1}The Hamner Institutes for Health Sciences, Research Triangle Park, NC; \textsuperscript{2}Université de Montréal, Montreal, QC, Canada; and \textsuperscript{3}National Institutes of Environmental Health Sciences, Research Triangle Park, NC.

Abstract 757; Poster Board 639

Application of Reverse Dosimetry to Compare In Vitro and In Vivo Estrogen Receptor Activity. Chang\textsuperscript{1}, N. Kleinstreuer\textsuperscript{1}, P. Ceger\textsuperscript{1}, N. Y. Choksi\textsuperscript{1}, J. Hsieh\textsuperscript{2}, M. DeVito\textsuperscript{2}, D. G. Allen\textsuperscript{1}, and W. Casey\textsuperscript{3}.
\textsuperscript{1}ILS/ NICEATM, Research Triangle Park, NC; \textsuperscript{2}NIEHS/ NTP, Research Triangle Park, NC; and \textsuperscript{3}NTP/ NICEATM, Research Triangle Park, NC.

Featured Session: Meet the Directors
Chairperson(s): Peter L. Goering, Society of Toxicology Vice President; US FDA-CDRH, Silver Spring, MD.

A Conversation with Linda Birnbaum and Jim Jones
Lecturers: Linda S. Birnbaum, NIEHS; and Jim Jones, US EPA
**Monday, March 23, 2:00 PM to 4:45 PM, CC Ballroom 6E**

**Workshop Session: Evaluating and Quantifying Stress for Inclusion in Cumulative Risk Assessment Approaches for Protecting Vulnerable Populations**

**Chairperson(s):** Cynthia V. Rider, NTP/NIEHS, Research Triangle Park, NC; and Jane Ellen Simmons, US EPA, Research Triangle Park, NC.

**Abstract 797**

**Evaluating and Quantifying Stress for Inclusion in Cumulative Risk Assessment.** C. V. Rider\(^1\) and J. Simmons\(^2\). \(^1\)NTP/NIEHS, Research Triangle Park, NC; and \(^2\)NHEERL/US EPA, Research Triangle Park, NC.

2:00 PM  **Introduction.** C. V. Rider. NTP/NIEHS, Research Triangle Park, NC.

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**Tuesday, March 24, 9:00 AM to 11:45 AM, CC Room 1**

**Workshop Session: The EDSP Screening Battery: A Work in Progress for Prioritizing Compounds for Quantitative Risk Assessment**

**Chairperson(s):** Bethany R. Hannas, Toxicology & Environmental Research & Consulting, The Dow Chemical Company, Midland, MI; and Cynthia V. Rider, NTP/NIEHS, Research Triangle Park, NC.

**Abstract 865**

9:00 AM  **The EDSP Screening Battery: A Work in Progress for Prioritizing Compounds for Quantitative Risk Assessment.** B. R. Hannas\(^1\) and C. V. Rider\(^2\). \(^1\)The Dow Chemical Company, Midland, MI; and \(^2\)NTP, NIEHS, Research Triangle Park, NC.

**Abstract 868**

10:06 AM  **Use of Computational Toxicology for Integrated Bioactivity-Exposure Prioritization of the EDSP Chemical Universe.** P. Browne\(^1\), R. Judson\(^2\), A. Dixon\(^1\), N. Kleinstreuer\(^4\), W. Casey\(^3\), D. R. Bergfelt\(^1\), T. D. Green\(^1\), R. Kent\(^1\), S. G. Lynn\(^1\), L. Touart\(^1\), and R. S. Thomas\(^2\). \(^1\)OCSPP, US EPA, Washington, DC; \(^2\)ORD, US EPA, Research Triangle Park, NC; \(^3\)ICEATM, NTP, Research Triangle Park, NC; and \(^4\)ILS/NICEATM, Research Triangle Park, NC.

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**Tuesday, March 24, 9:00 AM to 12:30 PM, CC Exhibit Hall**

**Poster Session: Systems Biology and Toxicology**

**Chairperson(s):** Nilson A. Assunção, Chemistry, Unifesp, Diadema, Brazil; and Weida Tong, US FDA/NCTR, Jefferson, AR.

**Abstract 904; Poster Board 129**

**RNA-Seq and Microarray Gene Expression Vie for Toxicogenomics Superiority.** W. Tong\(^1\), J. Xu\(^1\), P. R. Bushel\(^2\), S. S. Auerbach\(^2\), and C. Wang\(^3\). \(^1\)FDA/ NCTR, Jefferson, AR; \(^2\)NIEHS, Research Triangle Park, NC; and \(^3\)Loma Linda University, Loma Linda, CA.
Tuesday, March 24, 9:00 AM to 12:30 PM, CC Exhibit Hall (cont’d)

**Poster Session: Food Safety, In Vitro**

**Chairperson(s):** Monika Maier, Evonki Industries AG, Hanau, Germany.

**Abstract 944; Poster Board 171**

*Phytochemical Screening of Various Lots of Echinacea for Use in Toxicity Studies.* S. Waidyanatha¹, T. Cristy², S. Graves², E. Mutlu¹, and K. Ryan¹. ¹Division of the National Toxicology Program, National Institute of Environmental Health Sciences, Research Triangle Park, NC; and ²Battelle Memorial Institute, Columbus, OH.

**Poster Session: Carcinogenesis I**

**Chairperson(s):** Suryanarayana V. Vulimiri, ORD/NCEA-W, US EPA, Washington, DC; and J. Craig Rowlands, The Dow Chemical Company, Midland, MI.

**Abstract 991; Poster Board 246**

*Silencing KRAS Overexpression in Cadmium-Transformed Prostate Epithelial Cells Mitigates Malignant Phenotype.* N. O. Ngalame, E. J. Tokar, and M. P. Waalkes. NTP, NIEHS, Research Triangle Park, NC.

**Poster Session: Oxidative Injury and Redox Biology**

**Chairperson(s):** Bhagavatula Moorthy, Pediatrics, Baylor College of Medicine, Houston, TX.

**Abstract 1041; Poster Board 329**

*Role of Plasma Antioxidants for Assessing the Response to Oxidative Stress by Systemic Inflammation.* M. B. Kadiiska. NIEHS/NIH, Research Triangle Park, NC.

**Poster Session: Gene Regulation and Signal Transduction**

**Chairperson(s):** Saurabh Vispute, St. John’s University, Fresh Meadows, NY.

**Abstract 1092; Poster Board 440**

*Human Cytochrome P450 2C8 (CYP2C8) Is a Novel Target of Peroxisome Proliferator-Activated Receptor α (PPARα) in Human Liver.* N. L. Makia, S. Surapureddi, and J. A. Goldstein. Laboratory of Toxicology and Pharmacology, National Institute of Environmental Health Sciences, Research Triangle Park, NC.

**Poster Session: Immunotoxicity I**

**Chairperson(s):** Courtney E. Sulentic, Pharmacology and Toxicology, Wright State University, Dayton, OH.

**Abstract 1155; Poster Board 552**


**Poster Session: In Vitro Cardiovascular Safety**

**Chairperson(s):** Srikanth Nadadur, NIEHS, Research Triangle Park, NC.
Tuesday, March 24, 9:00 AM to 12:30 PM, CC Exhibit Hall (cont’d)

**Poster Session: Alternatives to Mammalian Models III**

**Chairperson(s):** Amos O. Abolaji, Biochemistry, University of Ibadan, Ibadan, Nigeria; and James M. McKim, Investigative Toxicology, IONTOX, LLC, Kalamazoo, MI.

**Abstract 1179; Poster Board 610**

**Correlation of Tox21 and ToxCast In Vitro and Small Model Organism Outcomes to Rat Oral Toxicity.** W. W. Polk¹, N. Kleinstreuer¹, J. Strickland¹, M. Paris¹, D. G. Allen¹, and W. Casey². ¹ILS/ NICEATM, Research Triangle Park, NC; and ²NTP/ NICEATM, Research Triangle Park, NC.

Tuesday, March 24, 1:00 PM to 4:30 PM, CC Exhibit Hall

**Poster Session: Nanotoxicology, Carbon-Based Nanomaterials**

**Chairperson(s):** David Warheit, DuPont Haskell Laboratories, Newark, DE.

**Abstract 1240; Poster Board 107**

**In Vivo Evidence of Free Radical Formation in the Mouse Lung and Distant Organs after Exposure to Single-Walled Carbon Nanotubes.** E.R. Kisin¹, A. R. Murray¹, M. B. Kadiiska³, and A.A. Shvedova¹,². ¹PPRB, NIOSH, Morgantown, WV; ²Physiology/Pharmacology, WVU, Morgantown, WV; and ³NIEHS/NIH, Research Triangle Park, NC.

**Abstract 1247; Poster Board 114**

**Differential Sensitivity of Healthy and Asthmatic Human Bronchial Epithelia to Multiwalled Carbon Nanotubes.** S. Hussain¹, P. R. Bushel², K. Gerrish³, and S. Garantziotis¹. ¹Clinical Research Unit, NIEHS, Research Triangle Park, NC; ²Biostatistics Branch, NIEHS, Research Triangle Park, NC; and ³Molecular Genomics Core, NIEHS, Research Triangle Park, NC.

**Poster Session: Skin**

**Chairperson(s):** Carol S. Auletta, Program Management, Huntingdon Life Sciences, East Millstone, NJ; and Gabriel A. Knudsen, Toxicology and Toxicokinetics, NCI at NIEHS, Research Triangle Park, NC.

**Abstract 1267; Poster Board 135**

**Dermal Uptake of Tetrabromobisphenol A (TBBPA) by Female Wistar Han Rat or Human Skin.** G. A. Knudsen¹, K. L. McIntosh¹, J. M. Sanders¹, M. F. Hughes², and L. S. Birnbaum¹. ¹Toxicology and Toxicokinetics, NCI at NIEHS, Research Triangle Park, NC; and ²NHEERL, US EPA- ORD, Research Triangle Park, NC.

**Poster Session: Computational Toxicology and Data Integration I**

**Chairperson(s):** Amy Clippinger, PETA International Science Consortium, Ltd., Norfolk, VA.

**Abstract 1314; Poster Board 211**

**Updates to an Integrated Testing Strategy for Skin Sensitization Potency.** J. Jaworska¹, J. Pirone², J. Strickland³, N. Kleinstreuer³, D. G. Allen³, and W. Casey⁴. ¹P&G NV, Bever, Belgium; ²SSS, Inc., Durham, NC; ³ILS/NICEATM, Research Triangle Park, NC; and ⁴NTP/NICEATM, Research Triangle Park, NC.
Abstract 1315; Poster Board 212

Abstract 1335; Poster Board 232
Using ToxCast/Tox21 Assays and QSAR Modeling to Predict Androgen Receptor Pathway Activity. L. Kleinstreuer$^1$, Q. Zang$^1$, D. L. Filer$^2$, M. T. Martin$^2$, K. Houck$^2$, D. G. Allen$^1$, W. Casey$^3$, and R. Judson$^2$. $^1$ILS/NICEATM, Research Triangle Park, NC; $^2$EPA/ORD/NCCT, Research Triangle Park, NC; and $^3$NTP/ NICEATM, Research Triangle Park, NC.

Poster Session: Food Safety, In Vivo
Chairperson(s): Ronald Riley, USDA, Athens, GA.

Abstract 1398; Poster Board 331
Six-Month Dosed-Feed Toxicity of Chitosan in Harlan Sprague-Dawley Rats. B. C. Sayers, M. Cora, S. Elmore, G. E. Kissling, M. Vallant, and C.R. Blystone. Division of the National Toxicology Program, National Institute of Environmental Health Sciences, Research Triangle Park, NC.

Poster Session: Reproductive Toxicology I
Chairperson(s): Jeffrey S. Moffit, FORUM Pharmaceuticals Inc, Boston, MA; and Vicki Sutherland, Toxicology Branch, National Toxicology Program, Research Triangle Park, NC.

Abstract 1421; Poster Board 407
Current Use of the National Toxicology Program (NTP) Modified One-Generation Reproduction (MOG) Study. P. M. Foster, M. Behl, B. McIntyre, and V. Sutherland. National Toxicology Program, NIEHS, Research Triangle Park, NC.

Abstract 1422; Poster Board 408
Endocrine Activity of Bisphenol AF As Assessed by a Modified One-Generation Reproduction (MOG) Study in Harlan Sprague-Dawley Rats. V. Sutherland$^1$, B. McIntyre$^1$, K. Turner$^2$, H. C. Cunny$^1$, L. E. Gray$^3$, M. Mercado$^1$, and P. M. Foster$^1$. $^1$NIEHS/NTP, Research Triangle Park, NC; $^2$DST, RTI, Research Triangle Park, NC; and $^3$TAD/NHEERL/ ORD, USEPA, Research Triangle Park, NC.

Abstract 1423; Poster Board 409
NTP Modified One-Generation Assessment (MOG) of 2-Ethylhexyl p-Methoxycinnamate (EHMC) in Hsd:Sprague-Dawley SD Rats. B. McIntyre$^1$, K. Turner$^2$, S. Waidyanatha$^1$, H. C. Cunny$^1$, and P. M. Foster$^1$. $^1$NIEHS/NTP, Research Triangle Park, NC; and $^2$RTI International, Research Triangle Park, NC.
Abstract 1437; Poster Board 423
Comparative Mammary Gland Development in Male and Female Harlan Sprague-Dawley Rats: From Bud Development to Adulthood. A. J. Filgo\textsuperscript{1,2}, J. Foley\textsuperscript{3}, C. Reed\textsuperscript{1}, V. Chappell\textsuperscript{1}, and S. E. Fenton\textsuperscript{1}. \textsuperscript{1}NTP Laboratory, NIEHS, Research Triangle Park, NC; \textsuperscript{2}Curriculum of Toxicology, UNC, Chapel Hill, NC; and \textsuperscript{3}CMPB, NIEHS, Research Triangle Park, NC.

Poster Session: Reproductive Toxicology II
Chairperson(s): Caitlin Murphy, University of Texas at Austin, Austin, TX; and Brandiese Beverly, US EPA, Durham, NC.

Abstract 1441; Poster Board 429
Simvastatin Reduces Fetal Testosterone Production and Permanently Alters Reproductive Tract Development in the Male Crl:CD(SD) Rat. B. Beverly\textsuperscript{1,2}, J. R. Furr\textsuperscript{2}, C. Lambright\textsuperscript{2}, B. McIntyre\textsuperscript{3}, P.M. Foster\textsuperscript{3}, G. Travlos\textsuperscript{3}, V. S. Wilson\textsuperscript{2}, and L. E. Gray\textsuperscript{2}. \textsuperscript{1}ORISE, Oak Ridge, TN; \textsuperscript{2}US EPA, Durham, NC; and \textsuperscript{3}NIH, Research Triangle Park, NC.

Abstract 1452; Poster Board 440
Individual and Mixture Endocrine Activity of BPS and BPC Using In Vitro Estrogenic/ Antiandrogenic Transcriptional Activation Assays and the In Vivo Uterotrophic Assay. J.M. Conley\textsuperscript{1,2}, M. Cardon\textsuperscript{2}, N. Evans\textsuperscript{2}, L. E. Gray\textsuperscript{2}, P.M. Foster\textsuperscript{3}, J. R. Furr\textsuperscript{2}, B. R. Hannas\textsuperscript{2}, P. Hartig\textsuperscript{2}, V. Sutherland\textsuperscript{3}, and V. S. Wilson\textsuperscript{2}. \textsuperscript{1}ORISE Postdoctoral Fellow, USEPA, Research Triangle Park, NC; \textsuperscript{2}TAD/ NHEERL/ORD, USEPA, Research Triangle Park, NC; and \textsuperscript{3}NTP/NIEHS, NIH, Research Triangle Park, NC.

Abstract 1453; Poster Board 441
Perinatal Exposures to Bisphenol (BP) Analogs and Their Effects on Early and Pubertal Development in CD-1 Mice. K. Tucker\textsuperscript{1,2}, S. Ye\textsuperscript{3}, A. Calafat\textsuperscript{3}, G. E. Kissling\textsuperscript{4}, and S. E. Fenton\textsuperscript{2}. \textsuperscript{1}Curriculum in Toxicology, UNC Chapel Hill, Chapel Hill, NC; \textsuperscript{2}NTPL, DNTP, NIEHS, Research Triangle Park, NC; \textsuperscript{3}DLS, NCEH, CDC, Atlanta, GA; and \textsuperscript{4}DIR, NIEHS, Research Triangle Park, NC.

Poster Session: Endocrine Toxicology
Chairperson(s): Christopher Thompson, Scripps Research Institute, San Diego, CA; and Katie B. Paul, Human Safety Regulatory Toxicology, Bayer CropScience, Durham, NC.

Abstract 1471; Poster Board 505
Systematic Review of Bisphenol A (BPA) Analouges and Analysis of High-Throughput Screening Data. K. E. Pelch\textsuperscript{1}, V. R. Walker\textsuperscript{1}, J. Hsieh\textsuperscript{1}, S. S. Auerbach\textsuperscript{1}, D. L. Svoboda\textsuperscript{1}, M. DeVito\textsuperscript{1}, S. Holmgren\textsuperscript{2}, R. R. Tice\textsuperscript{1}, and K. Thayer\textsuperscript{1}. \textsuperscript{1}NTP, NIEHS, Morrisville, NC; and \textsuperscript{2}OSIM, NIEHS, Morrisville, NC.
Tuesday, March 24, 1:00 PM to 4:30 PM, CC Exhibit Hall (cont’d)

**Poster Session: Neurotoxicology, Neurodegenerative Disease - Parkinson’s Disease**

**Chairperson(s):** Lena Smirnova, Environmental Health Sciences, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD.

**Abstract 1517; Poster Board 552**

Diphenylcyclopropenium at Low Dose Rescues Disease Phenotype in Models of Parkinson’s Disease. Q. Wang, L. Qian, B. Wilson, and J. Hong. Laboratory of Neurobiology, NIEHS, Research Triangle Park, NC. Sponsor: S. Hussain.

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Tuesday, March 24, 1:30 PM to 4:15 PM, CC Ballroom 6B

**Symposium Session: Incorporating In Vitro Pharmacokinetic Data and Tools into Toxicity Testing and Risk Assessments: State of the Science**

**Chairperson(s):** Barbara A. Wetmore, The Hamner Institutes for Health Sciences, Research Triangle Park, NC; and Warren Casey, NIEHS, Durham, NC.

**Abstract 1603**

1:30 PM  **Incorporating In Vitro Pharmacokinetic Data and Tools into Toxicity Testing and Risk Assessments: State of the Science.** B. A. Wetmore¹, and W. Casey². ¹The Hamner Institutes for Health Sciences, Research Triangle Park, NC; and ²NICEATM, NIEHS, Research Triangle Park, NC.

**Abstract 1606**

2:39 PM  **Using Reverse Toxicokinetic Models to Correlate In Vitro and In Vivo Estrogen Receptor Activity.** W. Casey. NIEHS, Durham, NC.

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Tuesday, March 24, 1:30 PM to 4:15 PM, CC Room 8

**Platform Session: Investigating Mode of Action in Chemical Carcinogenesis**

**Chairperson(s):** James E. Klaunig, Indiana University, Ellettsville, IN; and B. Bhaskar Gollapudi, Exponent, Inc., Midland, MI.

**Abstract 1637**

3:02 PM  **Evaluation of a Potential Mechanism for Formaldehyde-Induced Leukemia in p53-Haploinsufficient Mice.** D. L. Morgan¹, D. Dixon¹, M. P. Jokinen², D. H. King³, H. Price³, G. Travlos¹, R. A. Herbert¹, J. E. French¹, and M. P. Waalkes¹. ¹NTP, NIEHS, Research Triangle Park, NC; ²ILS, Research Triangle Park, NC; and ³Alion, Research Triangle Park, NC.

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Tuesday, March 24, 7:30 PM to 9:00 PM, Marriott Marquis Marina Ballroom D

**Social Event: Tox ShowDown**

**Chairperson(s):** Sue M. Ford, St. John’s University, Jamaica, NY; and Phil Wexler, NIH-NLM, Bethesda, MD.
Workshop Session: Evaluating Similarity across Related Complex Mixtures: The Challenge of Herbal Supplements

**Chairperson(s):** Cynthia V. Rider, NTP/NIEHS, Research Triangle Park, NC; and Joseph M. Betz, Office of Dietary Supplements, NIH, Bethesda, MD.

**Abstract 1672**
9:00 AM  
**Evaluating Similarity across Related Complex Mixtures: The Challenge of Herbal Supplements.** C. V. Rider\(^1\), and J. M. Betz\(^2\). \(^1\)NTP/NIEHS, Research Triangle Park, NC.

**Abstract 1675**
10:03 AM  
**Fingerprinting Methods for Identification and Authentication of Botanical Supplements.** J. Harnly. USDA, Beltsville, MD. Sponsor: C. Rider.

**Abstract 1676**
10:32 AM  
**Moving forward on Complex Herbal Mixtures at the National Toxicology Program.** C. V. Rider, B. Collins, S. S. Auerbach, M. DeVito, C. R. Blystone, and S. Waidyanatha. NTP/NIEHS, Research Triangle Park, NC.

**Abstract 1677**
11:01 AM  
**Steps toward Using Statistical Approaches for Determining Sufficient Similarity.** C. Gennings\(^2\), and C. V. Rider\(^1\). \(^1\)NTP/NIEHS, Research Triangle Park, NC; and \(^2\)Department of Preventive Medicine, Mount Sinai, New York, NY.

Platform Session: Applications of ToxCast/Tox21 Data: Confidence and Predictivity

**Chairperson(s):** Warren Casey, NIEHS, Durham, NC; and Lisa M. Sweeney, NAMRU Dayton, Henry M. Jackson Foundation, Kettering, OH.

**Abstract 1684**
9:00 AM  
**Using Bioactivity-Based Read-Across (BaBRA) to Characterize the ToxCast Library.** W. Casey\(^1\), D. G. Allen\(^2\), and N. Kleinstreuer\(^2\). \(^1\)NIEHS/NTP, Research Triangle Park, NC; and \(^2\)ILS/NICEATM, Research Triangle Park, NC.

**Abstract 1690**
11:18 AM  
Poster Session: Developmental Toxicology I

Chairperson(s): Christopher J. Bowman, Pfizer, Groton, CT; and Natasha S. Catlin, Pathobiology, Brown University, Providence, RI.

Abstract 1717; Poster Board 120
Maternal and Prenatal Dose Range-Finding Study of 4-Methylcyclohexanemethanol (MCHM) in Harlan Sprague-Dawley Rats. C. R. Blystone, E. Mylchreest, H. C. Cunny, B. McIntyre, C. D. Hebert, and S. S. Auerbach. Division of the National Toxicology Program, NIEHS, Research Triangle Park, NC; and Southern Research Institute, Birmingham, AL.

Abstract 1718; Poster Board 121
Prenatal Developmental Toxicity of Tris (Chloropropyl)phosphate (TCP) following Oral Exposure in Hsd:Sprague-Dawley SD Rats. K. Ryan, M. D. Stout, K. J. Turner, G. E. Kissling, M. Vallant, P. M. Foster, and B. McIntyre. NTP, NIEHS, Morrisville, NC; RTI International, Research Triangle Park, NC; and DIR, NIEHS, Research Triangle Park, NC.

Abstract 1719; Poster Board 122
In Utero Exposure to the Vinca Alkaloid Vinpocetine Is Associated with Rat Embryo-Fetal Toxicity. N. Catlin, I. Surh, P. M. Foster, E. Mylchreest, H. C. Cunny, M. Vallant, and B. McIntyre. Toxicology Branch, DNTP, NIEHS, Research Triangle Park, NC; Southern Research Institute, Birmingham, AL; and Program Operations Branch, DNTP, NIEHS, Research Triangle Park, NC.

Abstract 1730; Poster Board 133
Hepatic Mitochondrial Alteration in CD1 Mice Associated with Prenatal Exposures to Low Doses of Perfluorooctanoic Acid (PFOA). E. Quist, A. J. Filgo, C. A. Cummings, G. E. Kissling, M. J. Hoenerhoff, and S. E. Fenton. NTP, NIEHS, Research Triangle Park, NC; Comparative Biomedical Sciences, CVM, NCSU, Raleigh, NC; Curriculum in Toxicology, UNC, Chapel Hill, NC; DIR, NIEHS, Research Triangle Park, NC; Unit for Laboratory Animal Medicine, University of Michigan, Ann Arbor, MI; and Ultrapath Imaging, Durham, NC.

Poster Session: Risk Assessment III

Chairperson(s): Judith A. MacGregor, Toxicology Consulting Services, Bonita Springs, FL.

Abstract 1863; Poster Board 404
Problem Formulation of Complex Environmental Health Questions: Utilizing Text Mining to Address Challenges of a Literature-Based Evaluation of Transgenerational Health Effects. V. R. Walker, S. Holmgren, K. E. Pelch, B. Howard, R. Shah, K. Thayer, and A. A. Rooney. DNTP, NIEHS, Research Triangle Park, NC; NIEHS, Research Triangle Park, NC; Sciome LLC, Research Triangle Park, NC; and SSS, Durham, NC.
Wednesday, March 25, 9:00 AM to 12:30 PM, CC Exhibit Hall (cont’d)

**Poster Session: Regulation/Policy**

**Chairperson(s):** Katy O. Goyak, ExxonMobil Biomedical Sciences, Inc., Annandale, NJ.

**Abstract 1910; Poster Board 510**

**Assessing NTP’s Effectiveness: A Case Study on Hexavalent Chromium.** Y. Xie¹, S. Holmgren², D. Andrews¹, and M. S. Wolfe¹. ¹DNTP, NIEHS, Research Triangle Park, NC; and ²OD, NIEHS, Research Triangle Park, NC. Sponsor: J. Bucher.

**Abstract 1911; Poster Board 511**

**Using Acute Oral Toxicity Data to Estimate Acute Dermal Hazard Classification and Labeling of Pesticides.** M. Paris¹, J. Strickland¹, D. G. Allen¹, and W. Casey². ¹ILS/NICEATM, Research Triangle Park, NC; and ²NTP/NICEATM, Research Triangle Park, NC.

**Poster Session: Medical Devices: Risk Assessment and Test Methods**

**Chairperson(s):** Ron P. Brown, US FDA, Silver Spring, MD; and Lori H. Moilanen, Corporate Toxicology and Regulatory Services, 3M, Saint Paul, MN.

**Abstract 2022; Poster Board 663**

**NTP Studies of N,N-Dimethyl-p-toluidine (DMPT), a Component in Medical Devices and Gental Material.** K. R. Shockley¹, D. L. Morgan¹, A. Brix¹, G. Flake¹, J. Foley¹, Y. Wang¹, A. R. Pandiri², B. Mahler², O. Lyght³, K. Gerrish¹, and J. K. Dunnick¹. ¹National Institute of Environmental Health Sciences, Research Triangle Park, NC; ²Experimental Pathology Laboratories, Inc., Durham, NC; and ³Integrated Laboratory Systems, Research Triangle Park, NC.

Wednesday, March 25, 1:00 PM to 4:30 PM, CC Exhibit Hall

**Poster Session: Carcinogenesis II**

**Chairperson(s):** Helmut Zarbl, Environmental and Occupational Health

**Abstract 2041; Poster Board 117**

**False Positive Rates in National Toxicology Program Rodent Carcinogenicity Studies.** G. E. Kissling¹, J. K. Haseman², and E. Zeiger³. ¹Biostatistics Branch, NIEHS, Research Triangle Park, NC; ²J.K. Haseman Consulting, Raleigh, NC; and ³Errol Zeiger Consulting, Chapel Hill, NC.

**Poster Session: Disposition and Pharmacokinetics: Drugs, Chemicals, and Transporters**

**Chairperson(s):** Timothy Fennell, RTI International, Research Triangle Park, NC; and Abdel M. Kadry, Office of Research and Development, National Center for Environmental Assessment, US EPA, Washington, DC.

**Abstract 2095; Poster Board 205**

**Biological Fate of the Emerging Brominated Flame Retardant, Decabromodiphenyl Ethane, in Female Sprague-Dawley Rats.** E. P. Hull, G. A. Knudsen, J. M. Sanders, and L. S. Birnbaum. NCI/NIEHS, Research Triangle park, NC.
Abstract 2099; Poster Board 209
An Approach for Investigating the Toxicity of 2,2-Dimorpholinodiethyl Ether (DMDEE) in Mice and Rats. G. K. Hinkley¹, J. D. McDonald², M. Doyle-Eisele³, M. DeVito¹, P. M. Foster¹, and S. Waidyanatha¹. ¹Division of the National Toxicology Program, National Institutes of Environmental Health Sciences, Research Triangle Park, NC; and ²Lovelace Respiratory Research Institute, Albuquerque, NM.

Abstract 2100; Poster Board 210

Poster Session: Neurotoxicology, General
Chairperson(s): Vijay R. More, Laboratory of Toxicology and Pharmacology, National Institute of Environmental Health Sciences, Durham, NC.

Abstract 2112; Poster Board 225
Lipid-Sensing Transcription Factor Peroxisome Proliferator-Activated Receptor Alpha (PPAR-α) Regulates Blood-Brain Barrier Efflux Transporter Expression. V. R. More, C. Campos, and D. Miller. Laboratory of Toxicology and Pharmacology, National Institute of Environmental Health Sciences, Durham, NC.

Poster Session: Bioinformatics
Chairperson(s): Janet Moser, Chemical Security Analysis Center, Aberdeen Proving Ground, MD.

Abstract 2195; Poster Board 410
Chemical Effects in Biological Systems (CEBS) Database: Advanced Histopathology Search Applications. I. Lea¹, A. Rashid¹, C. Favaro¹, and Fostel². ¹Vistronix, Durham, NC; and ²NIEHS, Research Triangle Park, NC. Sponsor: M. Hooth.

Abstract 2201; Poster Board 416
Development of a Framework for an Environmental Health Science Language. C. Lawler¹, A. Haugen¹, R. R. Boyles¹, A. Deary¹, C. J. Mattingly², and M. Haendel³. ¹NIEHS, Research Triangle Park, NC; ²North Carolina State University, Raleigh, NC; and ³Oregon Health Sciences University, Portland, OR.

Poster Session: Computational Toxicology and Data Integration II
Chairperson(s): Susan C. Tilton, Environmental and Molecular Toxicology, Oregon State University, Corvallis, OR.

Abstract 2207; Poster Board 424
Developing Quantitative Structure Activity Relationship (QSAR) Models for Effects on Nematode Larval Growth and Zebrafish Embryonic Development. J. Hsieh¹, A. Sedykh³, N. Kleinstreuer², J. Franzosa⁴, W. A. Boyd¹, and R. R. Tice¹. ¹DNTP, NIEHS, Research Triangle Park, NC; ²Integrated Laboratory Systems, Inc, Morrisville, NC; ³MultiCASE Inc., Beachwood, OH; and ⁴NCCT, US EPA, Research Triangle Park, NC.
Abstract 2223; Poster Board 440

**HTS and SAR Analysis of Chemicals from the Elk River Spill.** S. S. Auerbach1, N. Y. Choksi2, S. Ferguson1, J. Hsieh1, D. L. Svoboda3, G. J. Myatt4, M. Wampole5, A. Sedaykh6, M. Lawless7, J. Prous8, N. J. Walker1, S. Masten1, M. S. Wolfe1, R. R. Tice1, and J.R. Bucher1. 1NIEHS/DNTP, Research Triangle Park, NC; 2ILS Inc, Research Triangle Park, NC; 3SSS Inc., Durham, NC; 4Leadscope, Inc., Columbus, OH; 5Thompson Reuters, New York, NY; 6MultiCASE Inc., Beachwood, OH; 7Simulations Plus, Inc., Lancaster, CA; and 8Prous Institute for Biomedical

Abstract 2237; Poster Board 454

**In Silico Prediction of Physicochemical Properties of Environmental Chemicals in Combination of Molecular Fingerprints and Machine Learning Approaches.** Q. Zang1, K. Mansouri2, D. G. Allen1, N. Kleinstreuer1, W. Casey3, and R. Judson2. 1ILS/ NICEATM, Research Triangle Park, NC; 2EPA/ORD/ NCCT, Research Triangle Park, NC; and 3NTP/ NICEATM, Research Triangle Park, NC.

**Poster Session: Epigenetics**

**Chairperson(s):** Tao Chen, School of Public Health, SooChow University, SuZhou, China; and Asok K. Dasmahapatra, National Center for Natural Product Research, University of Mississippi, University, MS.

Abstract 2256; Poster Board 519

**Biological Impact of Repetitive Element-Mediated Changes in Transcription after Exposure to Cocaine.** T. Wang1, J. Feng2, J. Santos1, M. Cahill2, L. Shen2, D. Fargo1, E. Nestler2, and R. Woychik1. 1NIEHS, Durham, NC; and 2Mount Sinai School of Medicine, New York, NY.

**Poster Session: Kidney**

**Chairperson(s):** Monica Valentovic, Pharmacology, Physiology and Toxicology, Marshall University School of Medicine, Huntington, WV.

Abstract 2275; Poster Board 539

**Renal Tubular Pigmentation Associated with Senna Administration.** G. A. Willson1, D. Malarkey2, N. Allison1, J. K. Dunnick2, J. F. Hardisty1, and R. A. Miller1. 1Experimental Pathology Laboratories, Inc., Durham, NC; and 2NIEHS, NIH/ DHHS, Research Triangle Park, NC.

Wednesday, March 25, 1:00 PM to 4:30 PM, CC Exhibit Hall (cont’d)

**Workshop Session: Increasing Interest and Engagement in Toxicology and STEM Disciplines: The Multiple Modalities and Impact of Research and Internship Opportunities for High School and Undergraduate Students**

**Chairperson(s):** Richard S. Pollenz, Cell Biology, University of South Florida, Tampa, FL; and William D. Atchison, Department of Pharmacology/Toxicology, Michigan State University, East Lansing, MI.

Abstract 2388

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| Wednesday, March 25 | 1:30 PM to 4:15 PM | CC Ballroom 6C      | **Workshop Session: Integrating Gene Expression Profiling into High-Throughput Toxicity Testing**  
Chairperson(s): Chris Corton, US EPA, Durham, NC; and Scott S. Auerbach, NIEHS/NTP, Morrisville, NC.  
Abstract 2391  
1:30 PM Integrating Gene Expression Profiling into High-Throughput Toxicity Testing. C. Corton\(^1\), S. S. Auerbach\(^2\). \(^1\)US EPA, Durham, NC; and \(^2\)NIEHS, Durham, NC. |
| Wednesday, March 25 | 1:30 PM to 4:15 PM | CC Room 8           | **Platform Session: Inflammation in Disease Due to Environmental Exposures**  
Chairperson(s): Daniel J. Conklin, University of Louisville, Louisville, KY; and Dori Germolec, NIEHS, Research Triangle Park, NC.  
Abstract 2417  
1:50 PM Toxicity of Subchronic *Aspergillus fumigatus* Exposures in BALB/cJ and B6C3F1/N Mouse Strains. D. Germolec\(^1\), A. P. Nayak\(^2\), B. J. Green\(^2\), A. Lemons\(^2\), T. Croston\(^2\), W. T. Goldsmith\(^2\), and D. Beezhold\(^2\). \(^1\)Toxicology Branch, NIEHS, Research Triangle Park, NC; and \(^2\)Health Effects Laboratory Division, NIOSH, Morgantown, WV. |
| Wednesday, March 25 | 4:30 PM to 5:50 PM | CC Room 6E          | **Roundtable Session: The Future of Carcinogenicity Testing Safety Assessment Approaches for Product Development**  
Chairperson(s): Yvonne Dragan, DuPont, Newark, DE; and James E. Klaunig, Indiana University, Ellettsville, IN.  
| Thursday, March 26  | 9:00 AM to 11:45 AM | CC Room 6E        | **Symposium Session: Comprehensive Analysis of Nano Silver Toxicity Profiles: Known, Unknown, and Surprises!**  
Chairperson(s): Srikanth S. Nadadur, Division of Extramural Research & Training, NIEHS, Research Triangle Park, NC; and Linda S. Birnbaum, NIEHS, Research Triangle Park, NC.  
Abstract 2433  
9:00 AM Comprehensive Analysis of Nano Silver Toxicity Profiles: Known, Unknown and Surprises! S. S. Nadadur, and L. S. Birnbaum. Division of Extramural Research & Training, NIEHS, Research Triangle Park, NC.  
9:00 AM Introduction. S.S. Nadadur. NIEHS, Research Triangle Park, NC. |
| Thursday, March 26  | 12:30 PM to 4:00 PM | Manchester Grand Hyatt Hillcrest | **Satellite Meeting: Updates on 21st Century Toxicology Activities and Related Efforts: Invited Presentations and Open Microphone.**  
Presented by: The Center for Alternatives to Animal Testing and Human Toxicology Project Consortium  
1:00 PM Tox21 Update. Alex Merrick, US National Toxicology Program |
Late-Breaking Poster Session: Computational Toxicology and Bioinformatics

Abstract 2641; Poster Board 346
Curation and Analysis of a Rodent Uterotrophic Database: Insights on Data Quality and Reproducibility. P. Ceger1, N. Kleinstreuer1, D. G. Allen1, X. Chang1, J. Strickland1, Q. Zang1, J. T. Hamm1, E. Phillips1, B. Jones1, W. Casey2. 1NICEATM, ILS, Research Triangle Park, NC, United States, and 2NICEATM, Division of the National Toxicology Program, NIEHS, Research Triangle Park, NC, United States.

Abstract 2644; Poster Board 349

Abstract 2647; Poster Board 352

Late-Breaking Poster Session: Metals

Abstract 2526; Poster Board 158
Potential Role of Metallothionein in Manganese-Induced Cellular Aggresomes. W. Qu1, P. Zuo1, M. P. Waalkes1. 1NTP, NIEHS, Durham, NC, United States.

Late-Breaking Poster Session: Exposure Assessment/Biomonitoring

Abstract 2802; Poster Board 621
Exposure Assessment of BPA by Total “Backward” and Dietary “Forward” Intake Methods. A. J. Schecter1, M. Lorber2, O. Päpke3, W. C. Shropshire4, K. Christensen5, L. S. Birnbaum6. 1University of Louisville, Louisville, KY, United States, 2US EPA, Washington, DC, United States, 3Eurofins, Hamburg, Germany, 4University of Texas School of Public Health, Dallas, TX, United States, 5University of Wisconsin, Madison, WI, United States, and 6NCI, NIH, Research Triangle Park, NC, United States.