

# MSU Presentations at the 61<sup>st</sup> Annual SOT Meeting

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## Monday March 28<sup>th</sup>, 2022

\*all times are Pacific

### 3132: Poster Board - P237: Aryl Hydrocarbon Receptor (AhR) Activation by TCDD Shifts the Gut Microbiome Consistent with the Progression of Steatosis to Steatohepatitis with Fibrosis in Non-alcoholic Fatty Liver Disease

R. R. Fling, and T. Zacharewski. Michigan State University, East Lansing, MI.

9:00am - 10:45am\*

### 3138: Poster Board - P265: The Impact of Kynurenone on AhR Activation in Multiple Myeloma Cell Lines

L. D. Lopez Rivera<sup>1,2</sup>, J. J. Bernard<sup>2</sup>, and J. D. Diedrich<sup>2</sup>. <sup>1</sup>Universidad Ana G. Méndez Gurabo, Gurabo, PR; and <sup>2</sup>Michigan State University, East Lansing, MI.

10:45am - 12:30pm

### 3155: Poster Board - P282: The Carcinogenic Potential of Lower Molecular Weight Polycyclic Aromatic Hydrocarbons in Lung

A. K. Bauer<sup>1</sup>, S. Plottner<sup>2</sup>, M. Wolff<sup>2</sup>, H. U. Kafferlein<sup>2</sup>, K. Velmurugan<sup>1</sup>, and B. L. Upham<sup>3</sup>. <sup>1</sup>University of Colorado Anschutz, Aurora, CO; <sup>2</sup>Institute for Prevention and Occupational Medicine of the German Social Accident Insurance, Institute of the Ruhr-University Bochum, Bochum, Germany; and <sup>3</sup>Michigan State University, East Lansing, MI.

10:45am - 12:30pm

### 3161: Poster Board - P288: Bone Marrow Adipocyte-Induced Expression of the Aryl Hydrocarbon Receptor in Multiple Myeloma

J. D. Diedrich, C. E. Cole, and J. J. Bernard. Michigan State University, East Lansing, MI.

10:45am - 12:30pm

### 3162: Poster Board - P289: Identification of Natural Products for the Chemoprevention of Skin Cancer

N. A. Yawson, B. Karaj, and J. J. Bernard. Michigan State University, East Lansing, MI.

10:45am - 12:30pm

### 3177: Poster Board - P304: The Role of the Aryl Hydrocarbon Receptor in Adipose Tissue-Stimulated Malignant Transformation

R. Gonzalez-Pons, J. D. Diedrich, and J. J. Bernard. Michigan State University, East Lansing, MI.

10:45am - 12:30pm

### 3213: Poster Board - P348: Coupling Microphysiological and Computational Models of Thyroid Homeostasis to Test Chemicals and Mixtures

B. P. Johnson<sup>1</sup>, Q. Zhang<sup>2</sup>, L. Terrian<sup>1</sup>, and K. Gardner<sup>1</sup>. <sup>1</sup>Michigan State University, Lansing, MI; and <sup>2</sup>Emory University, Atlanta, GA.

2:30pm - 4:15pm

### 3372: Poster Board - P564: Prednisone Suppresses Pathogenic Nuclear Autoantibodies in Lung but Not Plasma during Silica-Triggered Lupus Flaring in NZBWF1 Mice

L. K. Heine<sup>1</sup>, L. D. Rajasinghe<sup>1</sup>, Q. Z. Li<sup>2</sup>, J. G. Wagner<sup>1</sup>, R. P. Lewandowski<sup>1</sup>, J. R. Harkema<sup>1</sup>, and J. J. Pestka<sup>1</sup>. <sup>1</sup>Michigan State University, East Lansing, MI; and <sup>2</sup>University of Texas Southwestern Medical Center, Dallas, TX.

2:30pm - 4:15pm

**3378: Poster Board - P570: Effects of the Food Additive tBHQ on OVA-Elicited Food Allergy in Juvenile Mice**

Y. Jin, A. P. Boss, M. M. Janey, S. Awali, L. M. Kaiser, and C. E. Rockwell. *Michigan State University, East Lansing, MI.*

2:30pm - 4:15pm

**Tuesday March 29th, 2022**

**3714: Poster Board - P374: Kruppel-Like Factor 6 (KLF6) and the RelA NF-kappaB Subunit as the Predominant Dimerization Partners of Endogenously Activated Aryl Hydrocarbon Receptor**

D. Filipovic<sup>1</sup>, S. Cuddapah<sup>2</sup>, and S. Bhattacharya<sup>1</sup>. <sup>1</sup>*Michigan State University, East Lansing, MI;* and <sup>2</sup>*New York University Grossman School of Medicine, New York, NY.*

9:00am - 10:45am

**3980: Poster Board - P672: Mentoring the Next Generation of Underrepresented Undergraduate STEM Students in the Field of Toxicology**

P. Van Benthem<sup>1</sup>, C. Santana<sup>1</sup>, P. Lein<sup>1</sup>, L. Van Winkle<sup>1</sup>, R. Poppenga<sup>1</sup>, E. Gilbreath<sup>2</sup>, D. Alexander<sup>2</sup>, R. Warren<sup>2</sup>, R. Whittington<sup>2</sup>, J. Flaws<sup>3</sup>, J. Danielson<sup>4</sup>, A. O'Connor<sup>5</sup>, C. Vengrin<sup>6</sup>, A. Correia<sup>7</sup>, B. Eidemiller<sup>8</sup>, and W. K. Rumbeisha<sup>1</sup>. <sup>1</sup>*University of California Davis, Davis, CA;* <sup>2</sup>*Tuskegee University, Tuskegee, AL;* <sup>3</sup>*University of Illinois at Urbana-Champaign, Urbana, CA;* <sup>4</sup>*Iowa State University, Ames, IA;* <sup>5</sup>*Michigan State University, East Lansing, MI;* <sup>6</sup>*International Council for Veterinary Assessment, Bismarck, ND;* <sup>7</sup>*Ohio State University, Columbus, OH;* and <sup>8</sup>*Society of Toxicology, Reston, VA.*

9:00am - 10:45am

**3981: Poster Board - P673: DemoTox-PK: An Educational Tool for Visualizing Pharmacokinetics and Toxicodynamics Associated with Hypotheses of Idiosyncratic, Drug-Induced Liver Injury (IDILI) Etiology**

R. Roth, O. Kana, D. Filipovic, and P. Ganey. *Michigan State University, East Lansing, MI.*  
9:00am - 10:45am

**4130: Poster Board - P834: Immunologic Assessment of Selected Cannabis-Derived Terpenes and Cannabinoids in Human Peripheral Blood Mononuclear Cells (PBMC)**

R. Crawford, T. Bach, M. D. Rizzo, S. Sermet, L. K. Blevens, J. Zhou, D. Khan, and N. E. Kaminski. *Michigan State University, East Lansing, MI.*

9:00am - 10:45am

**4131: Poster Board - P835: Cannabidiol (CBD) Modulates Monocyte-Derived Proinflammatory Cytokine IL-6 Secretion in Human Monocytes Activated through Toll-Like Receptors (TLRs) 1-9**

S. Sermet, J. Li, A. Bach, R. B. Crawford, and N. E. Kaminski. *Michigan State University, East Lansing, MI.*

9:00am - 10:45am

**4132: Poster Board - P836: Cannabidiol (CBD) Suppresses the Secretion of Proinflammatory Cytokine Interleukin-1 $\beta$  (IL-1 $\beta$ ) in Human Monocytes through a Mechanism Independent of Vanilloid Transient Receptor Potential Channels 1 (TRPV1) and 4 (TRPV4)**

B. Finn, R. Crawford, and N. Kaminski. *Michigan State University, East Lansing, MI.*

9:00am - 10:45am

**4134: Poster Board - P838:  $\Delta$ 9-tetrahydrocannabinol (THC) Suppresses Naïve CD8+ T Cell Differentiation and Interferon Gamma (IFN- $\gamma$ ) Production in Interferon Alpha (IFN- $\alpha$ ) Primed Activation**

J. Marty, R. B. Crawford, L. Blevins, and N. E. Kaminski. *Michigan State University, East Lansing, MI.*  
9:00am - 10:45am

**4137: Poster Board - P841: Disparate Effects of the Food Additive tert-butylhydroquinone (tBHQ) on Antibody Secretion and Expression of Cell Surface Proteins by Activated B Cells**

L. M. Kaiser, and C. E. Rockwell. *Michigan State University, East Lansing, MI.*

9:00am - 10:45am

**4138: Poster Board - P842: Single Cell RNA-Sequencing Elucidates Potential Gene Expression Programs That Are Dysregulated by Persistent Aryl Hydrocarbon Receptor (AHR) Signaling during Human Hematopoietic Differentiation**

D. M. Isha Olive Khan<sup>1</sup>, P. W. Karmaus<sup>2</sup>, R. Crawford<sup>1</sup>, and N. E. Kaminski<sup>1</sup>. <sup>1</sup>*Michigan State University, East Lansing, MI; and <sup>2</sup>NIEHS, Washington, DC.*

9:00am - 10:45am

**4142: Poster Board - P846: Inhibition of Dendritic Cell Activation by the Nrf2 Activator, tBHQ**

S. Awali, Y. Jin, L. M. Kaiser, and C. E. Rockwell. *Michigan State University, East Lansing, MI.*

9:00am - 10:45am

**3495: Poster Board - P117: Collaborative Cross Strain CC002/Unc: A Murine Model of Ozone-Induced Nonatopic Asthma**

G. J. Smith<sup>1</sup>, A. Tovar<sup>1</sup>, K. McFadden<sup>1</sup>, R. M. Immormino<sup>1</sup>, T. P. Moran<sup>1</sup>, J. G. Wagner<sup>2</sup>, J. R. Harkema<sup>2</sup>, and S. N. Kelada<sup>1</sup>. <sup>1</sup>*University of North Carolina at Chapel Hill, Chapel Hill, NC; and <sup>2</sup>Michigan State University, East Lansing, MI.*

10:45am - 12:30pm

**3842: Poster Board - P516: Exploring the Role of sEH-Inhibitors as a Potential Treatment for Parkinson's Disease in C. elegans**

R. E. Gonzalez-Calderon<sup>1</sup>, M. Sarparastzardroudia<sup>2</sup>, D. Vonarx<sup>2</sup>, J. Alan<sup>2</sup>, and K. S. Lee<sup>2</sup>. <sup>1</sup>*Universidad Ana G. Méndez, San Juan, PR; and <sup>2</sup>Michigan State University, East Lansing, MI.*

10:45am - 12:30pm

**4040: Poster Board - P739: Computational Modeling of Germinal Center Response and Its Disruption by Environmental Chemicals**

D. P. Mu<sup>1</sup>, N. E. Kaminski<sup>2</sup>, and Q. Zhang<sup>3</sup>. <sup>1</sup>*Montgomery Blair High School, Silver Spring, MD; <sup>2</sup>Michigan State University, East Lansing, MI; and <sup>3</sup>Emory University, Atlanta, GA.*

10:45am - 12:30pm

**4044: Poster Board - P743: A Flexible Physiologically Based Pharmacokinetic (PBPK) Model for Mixtures of Dioxin-Like Compounds**

R. Liu<sup>1</sup>, T. R. Zacharewski<sup>2</sup>, R. B. Conolly<sup>3</sup>, and Q. Zhang<sup>4</sup>. <sup>1</sup>*Lower Merion High School, Ardmore, PA; <sup>2</sup>Michigan State University, East Lansing, MI; <sup>3</sup>Ramboll US Corp, Monroe, LA; and <sup>4</sup>Emory University, Atlanta, GA.*

10:45am - 12:30pm

**4046: Poster Board - P745: A Negative Feedback Loop and Transcription Factor Cooperation Regulate Zonal Gene Induction by 2, 3, 7, 8-tetrachlorodibenzo-p-dioxin in the Mouse Liver**

Y. Yang, D. Filipovic, and S. Bhattacharya. *Michigan State University, East Lansing, MI.*

10:45am - 12:30pm

**4067: Poster Board - P766: Generative Deep Learning of the Single Cell-Dose Response of 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Mouse Liver**

O. Z. Kana, R. Nault, T. R. Zacharewski, and S. Bhattacharya. *Michigan State University, East Lansing, MI.*

10:45am - 12:30pm

**4083: Poster Board - P783: Network of miRNAs Regulating Inflammatory and Fibrotic Responses in Sulfur Mustard-Induced Skin Injuries in Mice**

N. Mishra<sup>1</sup>, R. Prasad<sup>1</sup>, L. Saba<sup>1</sup>, N. Tewari-Singh<sup>2</sup>, C. Agarwal<sup>1</sup>, and R. Agarwal<sup>1</sup>. <sup>1</sup>University of Colorado Anschutz Medical Campus, Aurora, CO; and <sup>2</sup>Michigan State University, East Lansing, MI.

10:45am - 12:30pm

**4089: Poster Board - P789: Apoptosis and DNA Damage from Phosgene Oxime Cutaneous Exposure in C57BL/6 Mice**

O. Madadgar<sup>1</sup>, D. Goswami<sup>1</sup>, S. Singh<sup>1</sup>, C. Crutch<sup>2</sup>, R. Agarwal<sup>3</sup>, and N. Tewari-Singh<sup>1</sup>. <sup>1</sup>Michigan State University, East Lansing, MI; <sup>2</sup>MRIGlobal, Kansas City, MO; and <sup>3</sup>University of Colorado Anschutz Medical Campus, Aurora, CO.

10:45am - 12:30pm

**4090: Poster Board - P790: Elucidating the Role of the NRF2 Pathway in Nitrogen Mustard-Induced Toxicity in Mouse Epidermal Skin Cells**

R. Kerin<sup>1</sup>, H. Wright<sup>1</sup>, F. Fuertes<sup>1</sup>, A. Monson<sup>2</sup>, S. Sharma<sup>1</sup>, S. Singh<sup>1</sup>, D. Goswami<sup>1</sup>, O. Madadgar<sup>1</sup>, S. Lundback<sup>1</sup>, C. Rockwell<sup>1</sup>, K. Liby<sup>1</sup>, and N. Tewari-Singh<sup>1</sup>. <sup>1</sup>Michigan State University, East Lansing, MI; and <sup>2</sup>University of Pittsburgh, Pittsburgh, PA.

10:45am - 12:30pm

**4093: Poster Board - P793: Role of Mast Cells in Mediating Phosgene Oxime-Induced Skin Toxicity in a Mouse Model**

D. G. Goswami<sup>1</sup>, S. K. Singh<sup>1</sup>, O. Madadgar<sup>1</sup>, P. Anantharam<sup>2</sup>, C. R. Crutch<sup>2</sup>, E. L. Noland<sup>1</sup>, R. Agarwal<sup>3</sup>, J. Brown<sup>3</sup>, and N. Tewari-Singh<sup>1</sup>. <sup>1</sup>Michigan State University, East Lansing, MI; <sup>2</sup>MRIGlobal, Kansas City, MO; and <sup>3</sup>University of Colorado Denver, Aurora, CO.

10:45am - 12:30pm

**4095: Poster Board - P795: Dosing Frequency-Dependent Effect of Dexamethasone Treatment on Sulfur Mustard-Induced Corneal Injuries in Rabbit Ocular In Vivo Model**

N. Mishra<sup>1</sup>, R. Kant<sup>1</sup>, K. Kandhari<sup>1</sup>, N. Tewari-Singh<sup>2</sup>, P. Anantharam<sup>3</sup>, C. R. Crutch<sup>3</sup>, M. B. Pantcheva<sup>1</sup>, J. M. Pettrash<sup>1</sup>, C. Agarwal<sup>1</sup>, and R. Agarwal<sup>1</sup>. <sup>1</sup>University of Colorado Anschutz Medical Campus, Aurora, CO; <sup>2</sup>Michigan State University, East Lansing, MI; and <sup>3</sup>MRIGlobal, Kansas City, MO.

10:45am - 12:30pm

**4096: Poster Board - P796: Investigation of the Role of the Nrf2 Pathway in Chemical-Induced Toxicity in Human Corneal Epithelial Cells**

H. N. Wright, D. Goswami, A. Roney, R. Kerin, K. Liby, and N. Tewari-Singh. Michigan State University, East Lansing, MI.

10:45am - 12:30pm

**4105: Poster Board - P805: Lung Injury following Dermal Phosgene Oxime Exposure in SKH-1 Hairless Mice**

M. G. Godziela<sup>1</sup>, D. G. Goswami<sup>1</sup>, S. K. Singh<sup>1</sup>, C. R. Crutch<sup>2</sup>, J. Brown<sup>3</sup>, J. Wagner<sup>1</sup>, J. Harkema<sup>1</sup>, and N. Tewari-Singh<sup>1</sup>. <sup>1</sup>Michigan State University, East Lansing, MI; <sup>2</sup>MRIGlobal, Kansas City, MO; and <sup>3</sup>University of Colorado Denver, Aurora, CO.

10:45am - 12:30pm

## **Wednesday March 30th, 2022**

### **SPC Highlights Emerging Scientists: Immunotoxicity**

Chair: Dori Germolec, NIEHS/NTP

Co-Chair: Cheryl Rockwell, Michigan State University

8:00am - 10:15am

### **2042: Dietary Omega-Fatty Acid Prevents Silica-Triggered Autoimmune Disease in Adult Lupus-Prone Mice**

L. K. Heine, T. Scarlett, J. G. Wagner, R. P. Lewandowski, J. J. Pestka, and J. R. Harkema. *Michigan State University, East Lansing, MI.*

8:00am - 8:15am

### **4379: Poster Board - P333: A Simplified Rate Independent Measure of QT Prolongation in Primates Tested Using Body Temperature as the Positive Control**

D. Leishman<sup>1</sup>, M. Bailie<sup>2</sup>, N. Ether<sup>3</sup>, and A. Lauver<sup>3</sup>. <sup>1</sup>*Eli Lilly and Company, Indianapolis, IN*; <sup>2</sup>*INDS Inc., Ann Arbor, MI*; and <sup>3</sup>*Michigan State University, East Lansing, MI*.

9:00am - 10:45am

### **4386: Poster Board - P340: Development of High-Throughput Metabolically Competent Vascular Toxicity Assay**

J. A. Jimenez-Torres<sup>1</sup>, C. Z. Yang<sup>1</sup>, and B. P. Johnson<sup>2,1</sup>. <sup>1</sup>*Onexio Biosystems LLC, Austin, TX*; and <sup>2</sup>*Michigan State University, Lansing, MI*.

9:00am - 10:45am

### **4387: Poster Board - P341: The Positive Control You Never Knew You Had in Every Primate QTc Study?**

D. Leishman<sup>1</sup>, and A. Lauver<sup>2</sup>. <sup>1</sup>*Eli Lilly and Company, Indianapolis, IN*; and <sup>2</sup>*Michigan State University, East Lansing, MI*. Sponsor: M. Bailie

9:00am - 10:45am

### **1205: Navigating the Risk Landscape: How to Combat Misinformation with Science**

A. Bernstein. *Michigan State University, East Lansing, MI*.

9:20am - 9:45am

### **1181: Applications of Single Cell Transcriptomics in Dose-Response Assessments of the Effects of Dioxin**

R. Nault. *Michigan State University, East Lansing, MI*.

9:30am - 10:00am

### **2050: Activation of Nrf2 by tBHQ Promotes NK Cell Maturation, while Concurrently Inhibiting Activation and Expression of Effector Molecules**

A. P. Boss, E. M. Gardner, and C. E. Rockwell. *Michigan State University, East Lansing, MI*.

10:00am - 10:15am

### **4398: Poster Board - P396: Characterizing the Impact of Simvastatin on Aryl Hydrocarbon Receptor-Mediated Liver Injury Utilizing Single-Nuclei RNA Sequencing**

A. Jurgelewicz, R. Nault, T. R. Zacharewski, and J. J. LaPres. *Michigan State University, East Lansing, MI*.

10:45am - 12:30pm

**4401: Poster Board - P399: Canonical Activation of Protease-Activated Receptor-1 Drives Experimental Liver Fibrosis**

L. G. Poole<sup>1</sup>, H. M. Cline-Fedewa<sup>1</sup>, J. H. Griffin<sup>2</sup>, and J. P. Luyendyk<sup>1</sup>. <sup>1</sup>*Michigan State University, East Lansing, MI; and <sup>2</sup>Scripps Research Institute, La Jolla, CA.*  
10:45am - 12:30pm

**4406: Poster Board - P404: 2,3,7,8-Tetrachlorodibenzo-p-dioxin Inhibits Hepatic Acetyl-CoA Metabolism Despite AMPK Activation**

N. A. Zacharewski, G. N. Cholico, R. R. Fling, K. A. Fader, R. Nault, and T. Zacharewski. *Michigan State University, East Lansing, MI.*  
10:45am - 12:30pm

**4411: Poster Board - P409: Macrophage Receptor with Collagenous Structure (MARCO) Limits Acetaminophen-Induced Liver Injury**

A. Fournier, L. G. Poole, Z. Wei, H. M. Cline-Fedewa, and J. P. Luyendyk. *Michigan State University, East Lansing, MI.*  
10:45am - 12:30pm

**4413: Poster Board - P411: Intronic Dioxin Response Element Regulates TCDD-Induced Pkm2 Isoform Expression to Enhance Antioxidant Defenses**

K. Orlowska, R. Nault, and T. R. Zacharewski. *Michigan State University, East Lansing, MI.*  
10:45am - 12:30pm

**4417: Poster Board - P415: Thrombin-Catalyzed Fibrin Polymerization Controls Fibrin (ogen) Solubility Dynamics in Early Acetaminophen Hepatotoxicity**

Z. Wei<sup>1</sup>, K. Baker<sup>1</sup>, D. Groeneveld<sup>1</sup>, L. Poole<sup>1</sup>, H. Cline-Fedewa<sup>1</sup>, M. Flick<sup>2</sup>, and J. Luyendyk<sup>1</sup>. <sup>1</sup>*Michigan State University, East Lansing, MI; and <sup>2</sup>University of North Carolina at Chapel Hill, Chapel Hill, NC.*  
10:45am - 12:30pm

**4462: Poster Board - P465: Long Chain Omega-3 Fatty Acid Supplementation and Soluble Epoxide Hydrolase Inhibition Suppress Triggering of Glomerulonephritis by Rough Lipopolysaccharide in Lupus-Prone NZBWF1 Mice**

O. K. Favor, P. S. Chauhan, J. G. Wagner, R. P. Lewandowski, J. R. Harkema, J. P. Pestka, and K. S. Lee. *Michigan State University, East Lansing, MI.*  
10:45am - 12:30pm

**4495: Poster Board - P501: Effects of Developmental Pesticide Exposure on Epigenetic Aging in the Mouse Midbrain**

J. Kochmanski, N. C. Kuhn, S. L. Boyd, and A. I. Bernstein. *Michigan State University, Grand Rapids, MI.*  
10:45am - 12:30pm

**4649: Poster Board - P695: Development of FAIRTox, an Interactive R-Based Application for the Exploration, Visualization, and Re-analysis of Toxicogenomic Data**

J. Dodson, R. Nault, and T. Zacharewski. *Michigan State University, East Lansing, MI.*  
10:45am - 12:30pm

**4688: Poster Board - P740: A Computational Model to Predict Genome-Wide Binding Overlap of the Transcription Factors BMAL1 and Aryl Hydrocarbon Receptor (AhR)**

D. K. Marri<sup>1</sup>, S. Bhattacharya<sup>1</sup>, and S. Tischkau<sup>2</sup>. <sup>1</sup>*Michigan State University, East Lansing, MI;*  
*and <sup>2</sup>Southern Illinois University School of Medicine, Springfield, IL.*  
2:30pm - 4:15pm

**4698: Poster Board - P750: Application of Spatial Transcriptomics to Investigate Disruption of Hepatic Zonation in 2,3,7,8-tetrachlorodibenzo-p-dioxin-Elicited Progression of Steatosis to Steatohepatitis with Fibrosis**

R. Nault, and T. Zacharewski. *Michigan State University, East Lansing, MI.*

2:30pm - 4:15pm

**4699: Poster Board - P751: 2,3,7,8-Tetrachlorodibenzo-p-dioxin Alters Urinary Metabolite Levels following AhR-Mediated Hepatic Metabolic Reprograming**

W. J. Sink<sup>1</sup>, R. R. Fling<sup>1</sup>, A. Yilmaz<sup>2</sup>, S. F. Graham<sup>2</sup>, and T. Zacharewski<sup>1</sup>. <sup>1</sup>*Michigan State University, East Lansing, MI; and <sup>2</sup>Oakland University William Beaumont School of Medicine, Rochester, MI.*

2:30pm - 4:15pm

**4700: Poster Board - P752: Development of a Bayesian Single-Cell RNAseq Differential Gene Expression Test for Dose-Response Study Designs**

S. Saha<sup>1</sup>, R. Nault<sup>1</sup>, S. Bhattacharya<sup>1</sup>, J. Dodson<sup>1</sup>, S. Sinha<sup>2</sup>, T. Maiti<sup>1</sup>, and T. Zacharewski<sup>1</sup>. <sup>1</sup>*Michigan State University, East Lansing, MI; and <sup>2</sup>Texas A&M University, College Station, TX.*

2:30pm - 4:15pm

**4703: Poster Board - P755: Dose-Dependent Single-Nuclei RNAseq Evaluation of 2,3,7,8-tetrachlorodibenzo-p-dioxin-Elicited Progression of Nonalcoholic Fatty Liver Disease (NAFLD)-Like Pathologies**

T. Zacharewski<sup>1</sup>, S. Saha<sup>1</sup>, S. Bhattacharya<sup>1</sup>, S. Sinha<sup>2</sup>, T. Maiti<sup>1</sup>, and R. Nault<sup>1</sup>. <sup>1</sup>*Michigan State University, East Lansing, MI; and <sup>2</sup>Texas A&M University, College Station, TX.*

2:30pm - 4:15pm

**4708: Poster Board - P760: Single-Nuclei RNA Sequencing Analysis of Cell-Specific Gene Expression Responses to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) in the C57BL/6 Liver**

G. N. Cholico, R. Nault, and T. Zacharewski. *Michigan State University, East Lansing, MI.*

2:30pm - 4:15pm

**4805: Poster Board - P870: The “Best” QT Correction You Are Not Using?**

N. Ether<sup>1</sup>, M. Bailie<sup>2</sup>, D. Leishman<sup>3</sup>, and A. Lauver<sup>1</sup>. <sup>1</sup>*Michigan State University, East Lansing, MI; <sup>2</sup>INDS Inc., Ann Arbor, MI; and <sup>3</sup>Eli Lilly and Company, Indianapolis, IN.*

2:30pm - 4:15pm

**A Case Study for Making Research Data FAIR**

R. Nault. *Michigan State University, East Lansing, MI.*

3:05pm - 3:30pm