April 12-14, 2016
Baltimore, Maryland, USA
AGENDA

DAY 1: Tuesday, April 12, 2016

1pm Opening, Thomas Hartung
   Keynote (Granjero): Renama – Brazilian National Network of Alternative Methods— and Inmetro’s contribution
   Keynote (Kleinstreuer): Fit for Purpose Validation: The Key to Regulatory Acceptance of Alternative Methods in the U.S.
   Keynote (Willet): BioMed21: Bridging Pathway-based approaches from Toxicology to Medicine

3pm Break/Poster Session

TRACK A

Session 1A: Replacement—Topical
3:45pm Keynote (Gehen): Is the Animal-free Six Pack Ready for Prime Time?
    • Reconstructed skin model for the evaluation of phototoxic potential (Gaspar)
    • Implementation of the 3Rs in the evaluation of ocular irritation potential in Argentina (Gorzalczany)
    • Eye Irritancy Classification Predicted by Irritants-induced Corneal Endothelial Damage in Human Donor Corneoscleral Explant Not Used for Transplantation (Koh)
    • Skin Reconstructs and Epidermal Equivalent in perspective of alternative methods to animal experimentation (Maria-Engler)

5:15pm Plenary Keynote: (Chandrasekera) The Six Rs in Basic Research: A Roadmap for the Americas

DAY 2: Wednesday, April 13, 2016

Session 2A: Replacement—Biologicals
9am • Serology and Other 3Rs Approaches Methods for Replacing In Vivo Challenge Assays Used for Determining Potency of Bacterial Vaccines (Landys)
    • Development of a Vero Cell Method for Determining Specific Toxicity and Reversion to Toxicity for Diphtheria Toxoid in Vaccines (Herrera)
    • Presenter 3 (TBD)
    • Applicability of the Pyrogen Tests for Determining the Influence of Soluble Glucans on the LPS Activity: Relevance of the Monocyte Activation Test as Alternative (Pardo)
    Panel: Possible Incentives for Alternative Methods for Biologicals

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Session 2B: Read-across /In Silico
9am • Quantitative Nano-structure Toxicity Relationship: Developing Predictive Cell Recognition Models for Gold Nanoparticles (Zhu)
    • Boosting the Accuracy of Predicting Chemical-induced Human Skin Sensitization by Combining LLNA and QSAR (Alves)
    • Prediction of Genotoxic Mode of Action Using a Multiplexed Flow Cytometric Assay and a Multinomial Logistic Regression Machine Learning Approach (Bryce)
    • Integration Into Risk Assessment of Open Source Human Omics Data from In Vitro Studies (Hardy)
    Panel: Possible Incentives for Alternative Methods for Biologicals

Session 3A: Replacement—Disease Models
11:45am Keynote (Fitzpatrick) In Vitro Microphysiological Systems: Advancing Regulatory Science Through Innovation
    • Integrating the Exposome with Genetics to Uncover the Causality of Chronic Diseases in Humans (Machereone)
    • Modelling Musculoskeletal Disorders In Vitro — Comprising Complex Processes in Convincing Systems (Lang)
    • Generation of 3D Models to Mimic Parkinson’s Disease Neurodegeneration of Midbrain Dopaminergic Neurons (Bolognin)
    • High-Throughput Microfluidic Platform for Culture of 3D Kidney Tissue Models (Saleh)

Session 3B: Roadmaps—Education
11:45am Keynote (Hill) Training and Collaboration: Approaches to Overcome Barriers of Acceptance of 3R Methods
    • Simulation, Animal Sparing, and Surgical Education and Testing (Sassani)
    • Educational Programs for Alternative Approaches (Smirnova)
    • Policy (Amundson)
    • Toxicity Assessment of Co-Culture Human Systems during Serial Multi-Well Gradient Exposures (Klose)
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DAY 2: Wednesday, April 13, 2016 (continued)

Session 5A: Replacement—Organ Toxicities 1
9am Keynote (Dix) Endocrine Disruption
- Metabolically Competent Human Hepatic HepaRG Cells in 384-well Format (BioPredic/Chesné)
- Pathway of Toxicity from Omics Data: Mapping Estrogen Response (Maertens)
- Omics Approaches in a 3D Rat Primary Brain Model to Study Pathways of Developmental Neurotoxicity (Hogberg)
- Intergrated Testing Strategies (Hartung)

11am Break/Poster Session

Session 5B: Relevance
9am Keynote (Pamies) Good Cell Culture Practice
- Evidence-based Toxicology (Tsaioun)
- Talk Title TBD (Fowle)
- Talk and Presenter TBD
- Talk and Presenter TBD

Session 6A: Replacement—Organ Toxicities 2
11:45am • In Vitro 3D Dopaminergic Model to Study (Developmental) Neurotoxicity and Parkinsonism (Smimova)
- In Vitro Strategies for Studying the Metabolic Interactions Potential During the Development of New drugs, Results in Cuba (Roderio)
- A Perfused 3D Blood Vessel Mimic for Anti-angiogenesis and Vascular Toxicity (Saleh)
- Presenter 4 TBD
Panel: Organotypic cultures

5pm: Plenary Keynote (Stephens) Full Replacement, Revisited
Recognition Ceremony (Thomas Hartung, Andrew Rowan, Sue Leary, Rodger Curren)

4:15pm Break/Poster Session

Session 5B: Roadmaps 2
2:15 Keynote (Allen) Title TBA
- Can Organ-on-a-Chip Technology Really Replace Animal Testing of Drug and Chemical Safety? (Davidge)
- Microfluidics and High-Content Imaging for In-Vitro to In-Vivo Safety and Efficacy Assessment (Klose)
- A Framework to Reduce Reliance on Animal Testing for GMO Safety: Putting Exposure First in Risk Assessment (Fleming)
- Making the Use of Alternative Methods a Reality (Bishop)

12:45pm Lunch (Offsite)

SESSION 4A: Replacement—Topical 2
2:15 Keynote (Seidle) Advancing Safety Science and Legislating Cruelty-Free Cosmetics Throughout the Americas
- Potency Classifications for Contact Dermal Sensitization As Determined by the h-CLAT Assay (Varsho)
- Potency Ranking of Dermal Sensitizing Chemicals Using the IVSA and epiIC® Skin Tissues (DeGeorge)
- Detection of DNA-Damaging Activity of Food-Borne Compounds in the In Ovo Genotoxicity Assay (Kobets)
- Development and Validation of the Reconstructed Skin Micronucleus Assay (Curren)

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- High-throughput Screening (Saleh)
- Presenter 4 TBD
Panel: Organotypic cultures

1pm ADJOURN

For the latest agenda updates and other information, please see:
http://caat.jhsph.edu/programs/workshops/PanAmerican/index.html