

ToxicoEpigenetics

The Interface of Epigenetics and Risk Assessment

A Society of Toxicology Contemporary Concepts in Toxicology Conference
November 2-4, 2016 – Hyatt Regency, Tyson's Corner, Virginia

www.toxicology.org/teg

Wednesday, November 2nd, 2016

Keynote Address

Richard Meehan, PhD – University of Edinburgh

“The epigenome as a mediator of environmental effects on development and implications in disease development”

Session I: Epigenomic Effects of Environmental Exposures

Chair: **Andrea Baccarelli, MD, PhD** – Columbia University

David Diaz-Sanchez, PhD – U.S. Environmental Protection Agency

“Epigenetic effects of air pollutant exposure and perspective on the future of epigenetic data in risk assessment”

Rebecca Fry, PhD – University of North Carolina

“Epigenetic effects in metal toxicity”

Carmen Marsit, PhD – Dartmouth College

“Epigenome-environment interactions in human development and carcinogenesis”

Robert Chapin, PhD – Pfizer

“What are the general principles for indicating whether an epigenetic change is adverse or adaptive?”

Session II: Presentations of Selected Abstracts

Session III: Epigenetic Impact of Diet and Lifestyle Factors

Chair: **Dana Dolinoy, PhD** – University of Michigan

Ting Wang, PhD – Washington University

“Inter-individual variability in the epigenome”

Robert Waterland, PhD – Baylor College of Medicine

“Interactions between diet, epigenome, and susceptibility”

Deborah Cory-Clechta, PhD – University of Rochester

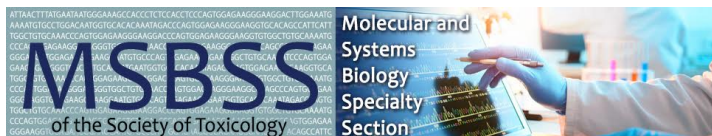
“Interactions between stress and epigenotoxic exposure”

Cheryl Walker, PhD – Texas A&M University

“Environmental epigenomics in developmental reprogramming”

Poster Session and Reception

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Thursday, November 3rd, 2016

Session IV: Using Model Systems to Reduce the Complexity of Human Studies in Environmental Toxicogenetics

Chair: **Shaun D. McCullough, PhD** – U.S. Environmental Protection Agency

Justin Colacino, PhD – University of Michigan

“In vitro approaches to modeling the role of the epigenome in effects of environmental exposures on disease”

Patrick Allard, PhD – University of California, Los Angeles

“Applications of unique screening methods for trans-generational epigenetic effects”

Ivan Rusyn, MD, PhD – Texas A&M University

“Epigenetic mechanisms of genotoxicity and carcinogenesis”

Session V: Presentations of Selected Abstracts

Session VI: Practical Considerations for the Incorporation of Epigenetic Data into Public Health and Risk Assessment

Chair: **Ronald Hines, PhD** – U.S. Environmental Protection Agency

John Vandenberg, PhD – U.S. Environmental Protection Agency

“What do we need to know to incorporate toxicogenetic data into risk assessment?”

Marie Fortin, PhD – Rutgers, The State University of New Jersey

“Case Study: Does the incorporation of epigenetic data improve risk assessment?”

Kaushik Datta, PhD – Celgene

“Therapeutic targets and known safety issues with epigenetic drugs”

Rémi Terranova, PhD – Novartis

“Epigenomics – impact for drug discovery sciences”

Jay Goodman, PhD – Michigan State University

Panel Discussion

Poster Session and Reception

Friday, November 4th, 2016

Session VII: Break-Out Group Discussion – Focus on the Future of Toxicogenetics

Chair: **Lisa Chadwick, PhD** – National Institute of Environmental Health Sciences

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