



25 Years of Endocrine Disruption Research: Past Lessons and Future Directions

A Celebration of the People and the Science

September 18-20, 2016

Agenda

September 18, 2016

Grand Ballroom, Bethesda Marriott

- 6:00 p.m. **Welcome**, Thad Schug, National Institute of Environmental Health Sciences (NIEHS)
- 6:05 p.m. **A Brief History of Endocrine Disruption**, Linda Birnbaum, NIEHS
- 6:35 p.m. **A Personal Story of EDCs and the People**, Pete Myers, Environmental Health Sciences
- 7:15 p.m. **Recollections of Wingspread by Attendees**, Pete Myers, John McLachlan, Michael Fry, Fred vom Saal
- 7:45-9:00 p.m. **Reception**

September 19, 2016

Masur Auditorium, National Institutes of Health (NIH) Main Campus

- 7:10 a.m. **Bus to NIH Main Campus**
- 8:30 a.m. **Meeting Overview**, Thad Schug, NIEHS
- 8:35 a.m. **Session 1: Scientific Principles Underlying EDCs**
Chair: Ken Korach, NIEHS
- 8:35 a.m. **Chair Overview**
- 8:45 a.m. **What EDCs Tell Us About Cell Signaling**, John McLachlan, Tulane University
- 9:05 a.m. **EDCs: Why They Are Different Than “Normal Chemicals,”** Scott Belcher, N.C. State University
- 9:30 a.m. **Wildlife and Implications for Humans**, David Crews, The University of Texas at Austin
- 9:50 a.m. **EDCs and Steroid Receptors Across Species**, Taisen Iguchi, Yokohama City University
- 10:10 a.m. **Break**
- 10:30 a.m. **Session 2: The Mechanisms and Health Effects of EDCs**
Chair: Gail Prins, University of Illinois College of Medicine at Chicago
- 10:30 a.m. **Chair Overview**
- 10:40 a.m. **Female Reproduction: Mechanisms and Effects of EDCs**
Tracey Woodruff, University of California, San Francisco
- 11:00 a.m. **Male Reproduction: Testicular Germ Cell Cancer as a “Whistleblower” of Endocrine Disruption**
Niels Skakkebaek, Rigshospitalet, University of Copenhagen
- 11:35 a.m. **EDCs, NRs, and Mechanisms of Metabolic Disease**, Bruce Blumberg, University of California, Irvine
- Noon **What We Have Learned From the Seveso Explosion**, Brenda Eskanazi, University of California, Berkeley
- 12:30 p.m. **Lunch** (Preorder box lunches)
- 1:30 p.m. **Session 3: EDC Testing and Biomonitoring**
Chair: Kris Thayer, NIEHS/National Toxicology Program (NTP)
- 1:30 p.m. **Chair Overview**
- 1:35 p.m. **In Vitro High-throughput Screening and Computational Models**, Nicole Kleinstreuer, NIEHS/NTP
- 1:55 p.m. **An Overview of the U.S. Environmental Protection Agency (EPA) Endocrine Disruptor Screening Program – From the Past to the Future**, Amy Blankinship, EPA
- 2:15 p.m. **CLARITY-BPA, a Potential New Approach to Guideline Studies**
Luisa Camacho, National Center for Toxicological Research/FDA
- 2:35 p.m. **Discussion**
- 2:55 p.m. **Break**
- 3:15 p.m. **Session 4: Lessons Learned From EDC Research**
Chair: David Gee, Brunel University London
- 3:15 p.m. **Chair Overview**
- 3:25 p.m. **The DES Story**, Elizabeth Hatch, Boston University
- 3:45 p.m. **Safer Products and Workplaces**, Meredith Williams, California EPA

- 4:05 p.m. **What's on Your X-axis? Does Exposure Data and Dosimetry Influence the Impact and Effectiveness of Environmental Health Research?**
Justin Teeguarden, Pacific Northwest National Laboratory
- 4:25 p.m. **What Can Prospective Birth Cohort Studies Tell Us About Endocrine Disrupting Chemicals?**
Joe Braun, Brown University
- 4:45 p.m. **Developmental (Re)programming of the Epigenome by EDCs**
Cheryl Walker, Baylor College of Medicine
- 5:15 p.m. **Bus to Hotel**
- 6:30-9:00 p.m. **Poster Session**, Marriott, Grand Ballroom, Pooks Hill Road, Bethesda, Maryland

September 20, 2016

Masur Auditorium, NIH Main Campus

- 7:10 a.m. **Bus from Bethesda Marriott to NIH Main Campus**
- 8:30 a.m. **Session 5: Bridging the Gap: Effects Across Species and Generations**
Chair: Shanna Swan, Icahn School of Medicine at Mount Sinai
Pharmaceuticals as EDCs: Evidence Across Species
- 8:30 a.m. **Chair Overview and Presentation**
- 8:55 a.m. **DDT Effects Across Species**, Michele La Merrill, University of California, Davis
- 9:15 a.m. **PCB Liver Toxicity in Animals and Humans**, Matt Cave, University of Louisville
- 9:35 a.m. **Transgenerational Effects of EDCs and Epigenetic Inheritance**, Martha Susiarjo, University of Rochester
- 10:00 a.m. **Break**
- 10:20 a.m. **Session 6: Translating Science to Action**
Chair: Carol Kwiatkowski, TEDX
- 10:20 a.m. **Chair Overview**
- 10:35 a.m. **Communicating EDC Issues to Consumers**, Ken Cook, Environmental Working Group
- 10:55 a.m. **Europe's Approach to Regulating EDCs – An NGO Perspective**, Ninja Reineke, CHEM Trust
- 11:15 a.m. **Walmart's Sustainable Chemistry Initiative**, Katherine Neebe, Walmart
- 11:35 a.m. **Strategies for Reducing EDCs in Building Materials**, Bill Walsh, Healthy Building Network
- 11:55 a.m. **Shifting the Paradigm of Determining Ingredient Safety: From Ideation Through Formulation**
Nicole Acevedo, Beautycounter
- 12:15 p.m. **Lunch** (Preorder box lunches)
- 1:15 p.m. **Session 7: Safer Chemicals and Better Research Strategies**
Chair: Sue Fenton, NIEHS
- 1:15 p.m. **Chair Overview**
- 1:25 p.m. **Purifying Water of Endocrine Disrupting Micropollutants**, Terry Collins, Carnegie Mellon University
- 1:50 p.m. **Predictive Toxicology Approaches for Product Development**, Reza J. Rasoulpour, Dow AgroSciences
- 2:10 p.m. **Replacement Chemicals**, Steven Hentges, American Chemistry Council
- 2:35 p.m. **Novel Designs for Human Studies on EDCs**, Russ Hauser, Harvard University
- 3:00 p.m. **Break**
- 3:20 p.m. **Session 8: The Next 25 Years: A Discussion on a Safer Future**
Moderator: Heather Patisaul, N.C. State University
Daland Juberg, Dow AgroSciences
Andrea Gore, The University of Texas at Austin
John McLachlan, Tulane University
Carol Kwiatkowski, TEDX
- 4:30 p.m. **Final Remarks**, Linda Birnbaum, NIEHS

**The NIEHS 50th Anniversary events
have been made possible with the support of
the Foundation for the National Institutes of Health
and its generous donors**

The Honest Company

Social & Scientific Systems, Inc.

Michael D. Baker

MRIGlobal

RTI International

Charles River

Breast Cancer Fund

Environmental Working Group

The Institute for Green Science at Carnegie Mellon University

Endocrine Society

Tecniplast

Commonweal

**Environmental Signaling Network at Tulane University
and the Weatherhead Foundation**

Bayer Crop Science

Brown University School of Public Health

The Endocrine Disruption Exchange (TEDX)

**University of California San Francisco
Program on Reproductive Health and the Environment**

The University of Texas at Austin College of Pharmacy

Thank You!