

Society for Birth Defects Research and Prevention (BDRP)
65th Annual Meeting
Researching New Heights in Birth Defects Research: Fundamentals to Cutting-Edge Research
Hilton Denver City Center, Denver, CO
June 28–July 2, 2025

Concurrent with the annual meetings of the Developmental Neurotoxicology Society (DNTS), National Birth Defects Prevention Network (NBDPN), and Organization of Teratology Information Specialists (OTIS)

As of September 9, 2024

The times listed are in Mountain Daylight Time.

Saturday, June 28, 2025

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| 7:30 AM–5:00 PM | Registration Open |
| 8:00 AM–8:30 AM | Education Course Coffee and Pastries (Education Course Session 1 Registrants Only) |
| 8:30 AM–12:00 Noon | The Principles of Teratology Education Course 1 (Separate Registration Required) <i>Organized by the BDRP Education Committee</i> <i>Chairperson: Ronee Baracani, Eli Lilly and Company</i> |
| 8:30 AM–8:35 AM | Welcome <i>BDRP President, Philip J. Lupo, Baylor College of Medicine</i> |
| 8:35 AM–8:40 AM | Course Overview <i>Education Committee Chairperson, Ronee Baracani, Eli Lilly and Company</i> |
| 8:40 AM–9:20 AM | Introduction to Wilson’s <i>General Principles of Teratology</i> <i>Robert M. Cabrera, Baylor College of Medicine</i> |
| 9:20 AM–10:00 AM | How the Principles Apply to Basic Developmental Biology and Toxicology Research <i>Joshua F. Robinson, University of California, San Francisco</i> |
| 10:00 AM–10:15 AM | Break |
| 10:15 AM–10:55 AM | How the Principles Apply to Nonclinical Safety Testing, Registration, and Regulations <i>Travis L. Calkins, Charles River Laboratories, Ashland</i> |
| 10:55 AM–11:35 AM | How the Principles Apply to Epidemiology and/or Clinical Research <i>Sonja A. Rasmussen, Johns Hopkins School of Medicine</i> |
| 11:35 AM–12:00 Noon | Discussion |
| 12:00 Noon–1:30 PM | Lunch on Your Own |

- 1:30 PM–5:00 PM** **The ABCs of EFDs: Fundamentals of Embryofetal Development Testing Education Course 2**
(Separate Registration Required)
Organized by the BDRP Education Committee
Chairpersons: Ronee Baracani, Eli Lilly and Company; Susan B. Laffan, Amgen; and Caren Villano, Boehringer Ingelheim
- 1:30 PM–1:35 PM Course Overview
Education Committee Chairperson, Ronee Baracani, Eli Lilly and Company
- 1:35 PM–2:10 PM Setting the EFD Testing Study Strategy
Caren Villano, Boehringer Ingelheim
- 2:10 PM–2:45 PM Designing a EFD Study
Susan B. Laffan, Amgen
- 2:45 PM–3:20 PM Conducting an EFD Study
Denita Williams, GSK
- 3:20 PM–3:35 PM Break
- 3:35 PM–4:10 PM Interpreting EFD Study Data
Bethany R. Hannas, Eli Lilly and Company
- 4:10 PM–4:45 PM Communicating EFD Study Results
Tacey E. White, Tacey White Consulting
- 4:45 PM–5:00 PM Discussion
- 5:00 PM–7:00 PM** **BDRP Council 1 Meeting**
(All current and incoming Council members as well as current Committee Chairs and Vice Chairs attend Council 1.)

Sunday, June 29, 2025

- 7:00 AM–6:00 PM** **Registration Open**
- 7:00 AM–8:00 AM** ***Birth Defects Research Journal* Editorial Board Meeting**
- 7:00 AM–8:00 AM** **BDRP Communications Coordination Committee Meeting**
- 8:00 AM–9:00 AM** **Josef Warkany Lecture**
Chairperson: Philip J. Lupo, Baylor College of Medicine
- 9:05 AM–12:00 PM** **Wilson Presentation Graduate Student and Postdoctoral Fellow Finalists Platform Session 1**
Organized by the BDRP Student Affairs Committee
Chairperson: Deirdre K. Tucker, Crinetics Pharmaceuticals
- 10:00 AM–6:00 PM** **Poster Session 1: Unattended**
(Joint with DNTS and OTIS)
- 12:00 PM–1:30 PM** **Lunch on Your Own**

- 12:00 PM–1:30 PM** **BDRP Past Presidents' and Honorees' Luncheon**
(By Invitation Only)
- 12:05 PM–1:20 PM** **Peer Review Lunch Workshop**
(Advance Registration Required)
Organized by the BDRP Publications Committee
Chairperson: John M. Rogers, ToxStrategies, Inc.
- 12:30 PM–1:30 PM** **BDRP Diversity, Equity, Inclusion, and Accessibility Committee Meeting**
- 12:30 PM–1:30 PM** **BDRP Education Committee Meeting**
- 1:30 PM–2:00 PM** **F. Clarke Fraser New Investigator Award**
Organized by the BDRP Awards Committee
Chairperson: Cynthia J. Wolf, US Environmental Protection Agency
- 2:05 PM–2:35 PM** **James G. Wilson Publication Award**
Organized by the BDRP Publications Committee
Chairperson: Wendy Nembhard, University of Arkansas for Medical Sciences
- 2:40 PM–3:45 PM** **BDRP Innovator Award Finalists Platform Session 2**
Organized by the BDRP Awards Committee
Chairperson: Cynthia J. Wolf, US Environmental Protection Agency
- 3:45 PM–4:00 PM** **Break**
- 4:00 PM–4:30 PM** **Patricia Rodier Mid-Career Award for Research and Mentoring**
(Joint with DNTS)
Chairpersons: Michael T. Williams, Cincinnati Children's Research Foundation
- 4:35 PM–6:00 PM** **Multidisciplinary Research Needs Workshop**
Organized by the BDRP Science Committee
Chairpersons: Suzanne E. Fenton, NC State University; and
Katie J. Turner, Janssen R&D, LLC
- 6:00 PM–7:30 PM** **Poster Session 1: Poster Presentations**
(Joint with DNTS and OTIS)
- 7:30 PM–9:30 PM** **Graduate Student and Postdoctoral Fellows Career Event**
Hosted by the Middle Atlantic Reproduction and Teratology Association (MARTA)

Monday, June 30, 2025

- 7:00 AM–4:30 PM** **Registration Open**
- 7:00 AM–8:00 AM** **2026 Program Committee Meeting**

8:00 AM–9:00 AM

**Fetal Surgery
Keynote Lecture**
(Joint with OTIS)

Chairperson: Prägati S. Coder, Charles River Laboratories, Ashland LLC

Lecturer: Sarah G. Običan, University of South Florida

9:05 AM–12:00 Noon

Down Syndrome: Assessing Outcomes across the Lifespan Symposium
(Joint with NBDPN)

*Chairpersons: Sonja A. Rasmussen, Johns Hopkins School of Medicine; and
Philip J. Lupo, Baylor College of Medicine*

- 9:05 AM–9:10 AM Introduction
Sonja A. Rasmussen, Johns Hopkins School of Medicine
- 9:10 AM–9:45 AM NIH's INCLUDE Initiative to Improve Quality of Life of People
with Down Syndrome (S1)
Joaquin Espinosa, University of Colorado School of Medicine
- 9:45 AM–10:20 AM Increased Risk for Leukemia among Children with Down
Syndrome (S2)
Phillip Lupo, Baylor College of Medicine
- 10:20 AM–10:35 AM Break
- 10:35 AM–11:10 AM Down Syndrome and Risk for Autism Spectrum Disorders (S3)
Deborah Fidler, Colorado State University
- 11:10 AM–11:45 AM Health of Adults with Down Syndrome: Decreased Risk for
Solid Tumors and Increased Risk for Alzheimer's Disease (S4)
Sonja A. Rasmussen, Johns Hopkins School of Medicine
- 11:45 AM–12:00 Noon Discussion

9:05 AM–12:00 Noon

**Opportunities and Applications of NAMs for DART Testing from Hazard to Risk
Assessment Symposium**

*Chairpersons: Nicole C. Kleinstreuer, National Interagency Center for Alternative
Toxicological Methods; and Peter J. Boogaard, Wageningen University and Research*

- 9:05 AM–9:10 AM Introduction
*Nicole C. Kleinstreuer, National Interagency Center for
Alternative Toxicological Methods*
- 9:10 AM–9:45 AM Regulatory Needs and Decision Frameworks for
Developmental Toxicity: Opportunities for NAMs (S5)
Elizabeth Mendez, US Environmental Protection Agency
- 9:45 AM–10:20 AM Resources to Support Validating NAMs for DART (S6)
*Nicole C. Kleinstreuer, National Interagency Center for
Alternative Toxicological Methods*
- 10:20 AM–10:35 AM Break

10:35 AM–11:10 AM PBK Modelling to Link Human Biomonitoring Data for Marker PAHs to Critical Concentrations in a Battery of *In Vitro* Test Systems Predictive for Prenatal Developmental Toxicity (S7)
Danlei Wang, Wageningen University and Research

11:10 AM–11:45 AM Moving the Needle Forward for NAMs in DevTox Testing: Proceedings of a HESI DART Workshop (S8)
TBA

11:45 AM–12:00 Noon Discussion

10:00 AM–5:30 PM Poster Session 2: Unattended

(Joint with NBDPN)

12:00 Noon–2:00 PM Lunch on Your Own

12:05 PM–1:45 PM Career Development: Professional Development Lunch Workshop
(Separate Registration Required)

Organized by the BDRP Student Affairs Committee

Chairpersons: Deirdre K. Tucker, Crinetics Pharmaceuticals; and Hao Chen, Ionis Pharmaceuticals

2:00 PM–2:30 PM Agnish Fellowship Lecture

Organized by the BDRP Education Committee

Chairperson: Ronee Baracani, Eli Lilly and Company

2:35 PM–5:30 PM The Ripple Effect: Neonatal Abstinence Syndrome from Birth to Adolescence Symposium

(Joint with DNTS)

Chairpersons: Melissa Beck, Cedarville University School of Pharmacy; and Wendy Nembhard, University of Arkansas for Medical Sciences

2:35 PM–2:40 PM Introduction

2:40 PM–3:15 PM Animal Models of NAS: What Have They Told Us? (S9)
TBA

3:15 PM–3:50 PM Opioid-Induced NAS: Diagnosis, Neonatal Outcomes, and Treatment (S10)
Jennifer McAllister, Cincinnati Children's Hospital Medical Center

3:50 PM–4:05 PM Break

4:05 PM–4:40 PM Long-Term Outcomes Associated with NAS (S11)
Melissa Beck, Cedarville University School of Pharmacy

4:40 PM–5:15 PM Potential Socioeconomic Influences on Short- and Long-Term Outcomes of NAS (S12)
Ginger Cameron, Purdue Global School of Health Sciences and Hawkeye Community College School of Science and Health Science

5:15 PM–5:30 PM Discussion

2:35 PM–5:30 PM Platform Session 3

5:30 PM–7:00 PM Poster Session 2: Posters Presentations
(Joint with NBDPN)

Tuesday, July 1, 2025

7:00 AM–3:30 PM Registration Open

7:00 AM–8:00 AM BDRP Membership Committee Meeting

7:00 AM–8:00 AM BDRP Publications Committee Meeting

7:00 AM–8:00 AM BDRP Science Committee Meeting

8:00 AM–9:00 AM Antiretroviral Drugs and Use in Pregnancy/Lactation
Robert L. Brent Lecture—Teratogen Update
(Joint with DNTS and OTIS)

Chairperson: Prägati S. Coder, Charles River Laboratories, Ashland LLC

Lecturer: Vani Vannappagari, ViiV Healthcare

9:05 AM–12:00 Noon Birth Defects and Reproductive Issues in Post-Dobbs vs. Women's Health
Organization Era Symposium
(Joint with DNTS and OTIS)

Organized by the BDRP Public Affairs Committee

Chairpersons: Vijaya Kancherla, Emory University Rollins School of Public Health; and Sarah G. Običan, University of South Florida

9:05 AM–9:10 AM Introduction
Vijaya Kancherla, Emory University Rollins School of Public Health

9:10 AM–9:45 AM Implications of Abortion Legislation on Birth Defects Surveillance (S13)
Amanda L. Elmore, University of South Florida

9:45 AM–10:20 AM Obstetric Clinical Perspectives in the Post-Dobbs Era (S14)
Sarah G. Običan, University of South Florida

10:20 AM–10:35 AM Break

10:35 AM–11:10 AM Ethical Challenges in the Post-Dobbs Era (S15)
Anne D. Lyerly, University of North Carolina at Chapel Hill

11:10 AM–11:45 AM Why We Need Segmentation of Data in Medical Records and Why We Might Not Want It (S16)
Bradley Malin, Vanderbilt University

11:45 AM–12:00 Noon Discussion

12:05 PM–1:45 PM

**Genomics and Multi-omic AI Applications for Birth Defect Research
Lunch and Learn Mini Course**

(Separate Registration Required)

Organized by the BDRP Education Committee

Chairperson: Ronee Baracani, Eli Lilly and Company

12:05 PM–12:15 PM Lunch Pick-Up

12:15 PM–12:50 PM AI in Genomics
Paul Wolujewicz, School of Health Sciences, Quinnipiac University

12:50 PM–1:25 PM AI in Multi-omics
Vanessa Aguiar-Pulido, University of Miami

1:25 PM–1:45 PM Discussion

12:00 Noon–2:00 PM

Lunch on Your Own

2:00 PM–5:00 PM

**Integrating *In Vitro* and Computational Approaches to Identify Novel
Developmental and Reproductive Toxicants and Enhance Chemical Hazard
Assessments Symposium**

*Chairpersons: Joshua F. Robinson, University of California, San Francisco; and
Michele La Merrill, University of California, Davis*

2:00 PM–2:05 PM Introduction

2:05 PM–2:40 PM An *In Vitro* High-Throughput Screening Approach to Estimate
Human Neurodevelopmental Risk (S17)
Randolph S. Ashton, University of Wisconsin, Madison

2:40 PM–3:15 PM Genome-Wide Profiling of miRNA and mRNA Expression in
Human Embryonic Stem Cells Developmental Bone Toxicity
(S18)
Nicole R. Sparks, University of California Irvine

3:15 PM–3:30 PM Break

3:30 PM–4:05 PM Integration of Computational Molecular Tools and
Nonmammalian Models to Identify Teratogens Relevant for
Human Exposure (S19)
Michele La Merrill, University of California, Davis

4:05 PM–4:40 PM Application of Nonanimal Data in DNT Hazard Identification
and Chemical Risk Assessment (S20)
TBA

4:40 PM–5:00 PM Discussion

2:00 PM–5:00 PM

**Genomic Studies of Birth Defects: Findings from the Centers for Birth Defects
Research and Prevention Symposium**
(Joint with NBDPN)

*Chairpersons: Lynn M. Almlı, Centers for Disease Control and Prevention; and
Paul A. Romitti, University of Iowa*

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| 2:00 PM–2:05 PM | Introduction <i>Lynn M. Almli, Centers for Disease Control and Prevention</i> |
| 2:05 PM–2:40 PM | Genetic Studies of Birth Defects from the Centers for Birth Defects Research and Prevention (S21) <i>Lynn M. Almli, Centers for Disease Control and Prevention</i> |
| 2:40 PM–3:15 PM | Gene Variants and Craniosynostosis: From GWAS to WGS (S22) <i>Paul A. Romitti, University of Iowa</i> |
| 3:15 PM–3:30 PM | Break |
| 3:30 PM–4:05 PM | <i>In Vivo</i> Validation of Exome Sequencing-Derived Candidate Genes Associated with Heterotaxy in NBDPS (S23) <i>Nanette Nascone-Yoder, North Carolina State University</i> |
| 4:05 PM–4:40 PM | Different Inheritance Models Present in Limb Defects (S24) <i>Horacio Gomez-Acevedo, University of Arkansas for Medical Sciences</i> |
| 4:40 PM–5:00 PM | Discussion |

Wednesday, July 2, 2025

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| 6:30 AM–7:30 AM | BDRP 44th Annual Volleyball Game |
| 7:30 AM–1:30 PM | Registration Open |
| 8:00 AM–9:00 AM | BDRP and ETS Exchange Lecture <i>Chairpersons: Philip J. Lupo, Baylor College of Medicine; and Jason C. Manton, Toxiqua Ltd.</i> |
| 9:05 AM–12:15 PM | Advancements in Assessing the Effects of Environmental Chemicals on Maternal Health and Fetal Development Symposium <i>Chairpersons: Kembra L. Howdeshell, National Institute of Environmental Health Sciences; and Paige Bommarito, US Environmental Protection Agency</i> |
| 9:05 AM–9:10 AM | Introduction <i>Kembra L. Howdeshell, National Institute of Environmental Health Sciences</i> |
| 9:10 AM–9:45 AM | Investigating Fetal Development Using 3D Ultrasounds: Applications to Understanding the Developmental Impacts of Exposure to Endocrine Disrupting Chemicals (S25) <i>Danielle Stevens, National Institute of Environmental Health Sciences</i> |
| 9:45 AM–10:20 AM | Prenatal Exposure to Environmental Chemical Mixtures and Maternal-Child Health Outcomes in Multiple Pregnancy and Birth Cohorts (S26) <i>Julia Varshavsky, Northeastern University</i> |
| 10:20 AM–10:40 AM | Warkany Tea |

10:40 AM–11:15 AM The Intersecting Roles of Endocrine Disrupting Chemicals and Diet during Pregnancy for Maternal and Child Health (S27)
Rita S. Strakovsky, Michigan State University

11:15 AM–11:50 AM Multi-omic Data Illuminates the Placenta's Role as a Mediator between Endocrine Disrupting Chemical Exposure and Spontaneous Preterm Birth (S28)
Alison Paquette, University of Washington

11:50 AM–12:15 PM Discussion

9:05 AM–12:15 PM

Neurobehavioral Testing in Nonrodent Models Used in Safety Assessment Symposium

(Joint with DNTS)

Chairpersons: Kristina York, Charles River Laboratories; and Melissa Beck, Cedarville University School of Pharmacy

9:05 AM–9:10 AM Introduction
Kristina York, Charles River Laboratories

9:10 AM–9:45 AM Wisconsin General Testing Apparatus (WGTA) in Nonhuman Primates (S29)
C. Marc Luetjens, LabCorp Early Development Services GmbH

9:45 AM–10:20 AM Conditioned Eye Blink Reflex in Rabbits (S30)
Mark Herberth, Charles River Ashland LLC

10:20 AM–10:40 AM Warkany Tea

10:40 AM–11:15 AM Neurobehavioral Assessments in Preterm Pigs(S31)
Helen J. K. Sable, University of Memphis

11:15 AM–11:50 AM Regulatory Aspects of Neurobehavioral Testing in Alternate Animal Models (S32)
TBA

11:50 AM–12:15 PM Discussion

12:15 PM–1:30 PM

Lunch on Your Own

12:30 PM–1:30 PM

BDRP Awards Committee Meeting

12:30 PM–1:30 PM

BDRP Public Affairs Committee Meeting

12:30 PM–1:30 PM

BDRP Student Affairs Committee Meeting

1:30 PM–4:30 PM

Minimizing Use of Nonhuman Primates for Safety Assessment of Risk to Fertility and Pregnancy Symposium

Chairpersons: Christopher J. Bowman, Pfizer Inc.; and Ronald L Wange, US Food and Drug Administration

Sponsored by the Health and Environmental Sciences Institute

1:30 PM–1:35 PM Introduction
Ronald L Wange, US Food and Drug Administration

- 1:35 PM–2:10 PM Current State of NHP Use Supporting Developmental and Reproductive Risk Assessment (S33)
Angela R. Stermer, Merck & Co.
- 2:10 PM–2:45 PM Experience Demonstrates Weight of Evidence for Monoclonal Antibodies Identifies Human Relevant Risk of Adverse Pregnancy Outcomes as Well as Pregnant NHP Studies (S34)
TBA
- 2:45 PM–3:00 PM Break
- 3:00 PM–3:35 PM Fertility Assessment in NHP: Evaluation of Marketed Products and Opportunities to Reduce Monkey Use (S35)
Puck Roos, Dutch Medicines Evaluation Board
- 3:35 PM–4:10 PM Looking Forward, Are NHP Really Needed for DART Assessments? (S36)
Christopher J. Bowman, Pfizer Inc.
- 4:10 PM–4:30 PM Discussion

4:45 PM–6:00 PM

Annual Meeting Awards Presentation and Business Meeting
Graduate Student and Postdoctoral Fellow Travel Awards
Edward W. Carney Trainee Awards
Wilson Presentation Awards
James C. Bradford Memorial Student Poster Awards
Edward W. Carney Distinguished Service Award
BDRP Innovator Award
Recognition of Other Awards Presented throughout the Week
Annual Business Meeting

6:30 PM–9:00 PM

Closing Celebration

Thursday, July 3, 2025

7:00 AM–9:30 AM

BDRP Council 2 Meeting
(2025–2026 Council members)