Society for Birth Defects Research and Prevention (BDRP) 64th Annual Meeting

Addressing Disparities in Birth Defects Research and Prevention Wyndham Grand Pittsburgh Downtown, Pittsburgh, PA June 22–26, 2024

As of June 3, 2024

The times listed are in Eastern Daylight Time.

Friday, June 21, 2024

3:00 PM-6:00 PM Registration Open

Saturday, June 22, 2024

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 Education Course Session 1

The Role of the Microbiome in Normal and Abnormal Development

(Separate Registration Required)

Organized by the Education Committee

Chairperson: Terry C. Hrubec, E. Via Virginia College of Osteopathic Medicine

8:30 AM–8:40 AM Welcome

BDRP President, Anthony M. DeLise, Novartis Pharmaceuticals Corporation

8:40 AM–8:45 AM Course Overview

Education Committee Chairperson.

Terry C. Hrubec, E. Via Virginia College of

Osteopathic Medicine

8:45 AM–9:25 AM Introduction to the Microbiome: How the Various

Microbiomes Are Established, the Influence of the

Microbiome on Maternal Health

Terry C. Hrubec, E. Via Virginia College of

Osteopathic Medicine

9:25 AM-10:05 AM Maternal-Fetal-Gut Microbiome Axis: How the

Maternal Gut Microbiome Affects Development of

the Fetus

Lori L. Driscoll, The Colorado College

10:05 AM-10:20 AM Break

10:20 AM-11:00 AM Placenta as Mediator of Maternal Microbiome

Effects on the Fetus and Newborn

Carolyn M. Salafia, Placental Analytics, LLC

11:00 AM-11:40 AM Microbiome and Development of the Immune

System

Eldin Jašarević. University of Pittsburgh School of

Medicine

11:40 AM-12:00 Noon Discussion

12:00 Noon–1:30 PM Lunch on Your Own

1:30 PM-5:00 PM Education Course Session 2

Stem Cells: The Role and Promise in Birth Defects Research

(Separate Registration Required)

Organized by the Education Committee

Chairperson: Terry C. Hrubec, E. Via Virginia College of Osteopathic Medicine

1:30 PM-1:35 PM Course Overview

Education Committee Chairperson,

Terry C. Hrubec, E. Via Virginia College of

Osteopathic Medicine

1:35 PM-2:20 PM Introduction to Stem Cells, the Different Kinds of

Stem Cells, and How to Collect and Maintain

Them

Lena Smirnova, Johns Hopkins University

2:20 PM-3:05 PM Nonclinical Considerations for Stem Cell

Therapies

Shawna Jackman, Charles River Laboratories

3:05 PM-3:20 PM Break

3:20 PM—4:05 PM A Path to Decode Human Development via Novel

Stem Cell-Based Embryo Models

Mo Ebrahimkhani, University of Pittsburgh

4:05 PM–4:50 PM Clinical Applications: Stem Cell Therapy

Amy E. O'Connell, Boston Children's Hospital

4:50 PM-5:00 PM Discussion

5:00 PM-7:00 PM Council 1 Meeting

(All current and incoming Council members as well as current Committee Chairs

and Vice Chairs attend Council 1.)

Sunday, June 23, 2024

7:00 AM-6:00 PM Registration Open

7:00 AM-8:00 AM 2025 Program Committee Meeting

8:00 AM-8:15 AM President's Welcome

BDRP President, Anthony M. DeLise, Novartis Pharmaceuticals Corporation

8:15 AM-9:00 AM	Josef Warkany Lecture
	Understanding of Mechanisms of Environmental Teratogenesis: From
	Mercury to Nutrition

(Joint with DNTS)

Chairperson: Anthony M. DeLise, Novartis Pharmaceuticals Corporation Lecturer: Christina D. Chambers, University of California San Diego

9:05 AM-12:05 PM Graduate Student and Postdoctoral Fellow Platform Session 1

Organized by the Student Affairs Committee

Chairperson: Christopher J. Bowman, Pfizer Inc.

9:05 AM-9:10 AM		Introduction Christopher J. Bowman, Pfizer Inc.
9:10 AM-9:30 AM	1	Developmental Exposure to Perfluorohexane Sulfonate (PFHxS) Induces Metabolic Disturbances in Lactating Rats and Their Offspring Aubrey L. Sasser, US Environmental Protection Agency and Oak Ridge Institute for Science and Education
9:30 AM-9:50 AM	2	Decreased DNA Repair and Ethanol Dysregulate Fetal Brain Gene Expression and Impact Brain Function Ashley P. Cheng. University of Toronto
9:50 AM-10:10 AM	3	The Teratogenic Risk Impact and Mitigation (TRIM) Tool: Development of Explicit Criteria for Teratogenicity Risk Mitigation Programs Celeste L. Y. Ewig, University of Florida
10:10 AM-10:30 AM	4	Crosstalk of Dioxin and RhoA-ROCK1 Signaling in Epithelial Morphogenesis Bo Xiao, University of Cincinnati
10:30 AM-10:45 AM		Break
10:45 AM-11:05 AM	5	Embryonic Exposures to Flame Retardant Tetrabromobisphenol A (TBBPA) Disrupts Dorsoventral Patterning in Zebrafish Kanchaka Sidath Senal Pathiraja, Clemson University
11:05 AM-11:25 AM	6	Developmental Toxicity of Isopropylated Phenyl Phosphate (IPP): An Organophosphate Flame Retardant, in Zebrafish Embryos Sunil Sharma, Clemson University
11:25 AM-11:45 AM	7	Impact of Maternal Nano-Titanium Dioxide Inhalation Exposure on Cyclooxygenase Metabolites: From Maternal Microvascular to Feto-Placental Outcomes Julie A. Griffith, West Virginia University

	11:45 AM-12:05 PM	8	Proteomic Analysis Reveals Perfluorooctanoic Acid-Induced Alterations in Primary Human Cytotrophoblasts Mengjing Wang, University of California, San Francisco
12:05 PM-1:30 PM	Lunch on Your Own		
12:05 PM-1:30 PM	Past Presidents' and He (By Invitation Only)	onoree	s' Luncheon
12:30 PM-1:30 PM	Diversity, Equity, Inclus	sion, ar	nd Accessibility Committee Meeting
12:30 PM-1:30 PM	Education Committee M	deeting	I
1:30 PM-2:00 PM	F. Clarke Fraser New In Building a Career in Bir Innovation	_	ator Award ects Epidemiology Through Collaboration and
	Chairperson: Bethany R.	Hanna	s, Eli Lilly and Company
	Lecturer: Jeremy M. Sch	raw, Ba	aylor College of Medicine
2:05 PM-2:35 PM	James G. Wilson Public An Improved Multicellu Effects on Palatal Fusio	ılar Hur	Award man Organoid Model for the Study of Chemical
	Chairperson: Wendy Ner	mbhard	, University of Arkansas for Medical Sciences
	Lecturer: Cynthia J. Wolf,	US En	vironmental Protection Agency
2:40 PM-3:45 PM	Innovator Award Finalis	sts Plat	tform Session 2
	Organized by the Awards	s Comn	nittee
	Chairperson: Bethany R.	Hanna	s, Eli Lilly and Company
	2:40 PM-2:45 PM		Introduction Bethany R. Hannas, Eli Lilly and Company
	2:45 PM-3:05 PM	9	Rare Variants in PRKCI Cause Van der Woude Syndrome and Other Features of Peridermopathy Kelsey Robinson, Emory University
	3:05 PM-3:25 PM	10	Integrating <i>In Vitro</i> and Computational Approaches to Identify Novel Environmental Chemicals that Alter Human Retinoic Acid Signaling <i>Mengjing Wang, University of California, San Francisco</i>
	3:25 PM-3:45 PM	11	Profiling Naled Toxicity in Primary Human Placental Cytotrophoblasts Lin Li, University of California, San Francisco

Break

3:45 PM-4:00 PM

4:00 PM-4:30 PM Patricia Rodier Mid-Career Award for Research and Mentoring

Reproductive Toxicology in Industry: Research and Mentoring are the

Special Sauce (Joint with DNTS)

Chairpersons: Bethany R. Hannas, Eli Lilly and Company

Lecturer: Christopher J. Bowman, Pfizer Inc.

4:35 PM-6:00 PM Multidisciplinary Research Needs Workshop

Organized by the Science Committee

Chairpersons: Kary E. Thompson, Janssen Pharmaceuticals; and

Suzanne E. Fenton, NC State University

6:00 PM-7:30 PM Poster Session 1

(Joint with DNTS)

Sponsored by WuXi AppTec

BDRP Posters P1–P24 LB1–LB4

DNTS Posters 1–11

7:30 PM-9:30 PM Graduate Student and Postdoctoral Fellows Career Event

Hosted by Middle Atlantic Reproduction and Teratology Association (MARTA)

Monday, June 24, 2024

7:00 AM-4:30 PM Registration Open

7:00 AM-8:00 AM Birth Defects Research Journal Editorial Board Meeting

7:00 AM-8:00 AM Communications Coordination Committee Meeting

8:00 AM-9:00 AM Keynote Lecture

Putting the Pieces Together: Head to Toe (L1)

(Joint with DNTS)

Chairperson: Philip J. Lupo, Baylor College of Medicine Speaker: Wendy K. Chung, Boston Children's Hospital

9:05 AM-12:00 Noon Congenital Anomalies in Minoritized Populations: An Overview of Factors

Affecting Prevalence and Outcomes Symposium

(Joint with DNTS)

Chairpersons: Jeremy M. Schraw, Baylor College of Medicine; and Wendy N. Nembhard, University of Arkansas for Medical Sciences

9:05 AM–9:15 AM Introduction

Jeremy M. Schraw, Baylor College of Medicine

9:15 AM–9:45 AM S1 Using Birth Defects Surveillance Data to

Understand and Address Health Disparities Wendy N. Nembhard, University of Arkansas for

Medical Sciences

9:45 AM-10:15 AM	S2	Congenital Anomalies among American Indian and Alaskan Native People in Oklahoma Amanda E. Janitz, University of Oklahoma Health Sciences Center
10:15 AM-10:30 AM		Break
10:30 AM-11:00 AM	S3	Voluntary Folic Acid Fortification Policy of Corn Masa Flour and Tortillas in the US and Neural Tube Defects Among Hispanics Vijaya Kancherla, Emory University
11:00 AM-11:30 AM	S4	Neighborhood Sociodemographic Characteristics and Prevalence of Congenital Anomalies in Texas <i>Jeremy M. Schraw, Baylor College of Medicine</i>
11:30 AM-12:00 Noon		Discussion

9:05 AM-12:00 Noon

Platform Session 3

Chairpersons: Christopher J. Bowman, Pfizer Research & Development; and Julie M. Petersen, Boston University School of Public Health

9:05 AM-9:15 AM		Introduction
9:15 AM-9:30 AM	12	Leveraging a Cell-Based Model of Whole- Pathway Sonic Hedgehog Signaling Activity to Assess Chemical Interactions among Teratogenic Agents Tyler G. Beames, University of Wisconsin- Madison
9:30 AM-9:45 AM	13	Reversible Effects on Female Fat Fertility with Abrocitinib: A Janus Kinase 1 Inhibitor Christopher J. Bowman, Pfizer Research & Development
9:45 AM-10:00 AM	14	Assessment of Systemic Levels of HFA-152a, a Low Global Warming Potential pMDI Propellant, During Nose-Only Inhalation Exposure in Male and Female Sprague Dawley Rats Jaime L. Mesnard, Charles River
10:00 AM-10:15 AM	15	Glucose-6-Phosphate Dehydrogenase Deficiency: A Possible Unsung Risk Factor for Congenital Anomalies Ayoade Desmond Babalola, Universidade Federal do Rio Grande do Sul
10:15 AM-10:30 AM		Break
10:30 AM-10:45 AM	16	Recent Reductions in Gastroschisis Prevalence in the United States and Puerto Rico Largely Explained by Population-Level Decline in Younger Maternal Age at Live Birth Julie M. Petersen, Boston University School of

Public Health

10:45 AM-11:00 AM	17	Evaluating the Need for Children with Critical Congenital Heart Defects to be Referred from the Texas Birth Defects Registry to Agency Social Workers Caitlyn Yantz, Texas Department of State Health Services
11:00 AM-11:15 AM	18	Risk of Pregnancy Loss after Prenatal Exposure to Doxycycline: A Retrospective Cohort Study Hung-Kai Chen, University of Florida
11:15 AM-11:30 AM	19	A Complex High-Throughput Testing Paradigm for Assessing Egocentric Learning and Memory in the Biel Water Maze in Rats Edward Marsden, Charles River
11:30 AM-11:45 AM	20	Discovering Phenotype-Gene Correlations Using Variant WorkBench Yiran Guo, Children's Hospital of Philadelphia
11:45 AM-12:00 Noon	21	The Per- and Polyfluoroalkyl Substance (PFAS) Hexafluoropropylene Oxide Dimer Acid (GenX) Alters Mitochondrial Protein Expression in Placental Trophoblasts Mikayla Watt, University of North Carolina-Chapel Hill

12:00 Noon-2:00 PM Lunc

Lunch on Your Own

12:05 PM-1:45 PM

Professional Development Lunch Workshop Science Communication

(Separate Registration Required)

Organized by the Student Affairs Committee

Chairpersons: Christopher J. Bowman, Pfizer Inc.; and Deirdre K. Tucker, Crinetic's Pharmaceuticals

12:05 PM-12:10 PM Lunch Pick-Up

12:10 PM-12:50 PM W1 Let's Talk About Science: Practice, Practice,

Practice!

Barbara L. F. Kaplan, Mississippi State University, College of Veterinary Medicine

12:50 PM-1:20 PM Breakout Session

1:20 PM-1:45 PM Discussion

2:00 PM-2:30 PM

Agnish Fellowship Lecture

The Identification of Human Teratogens Using a Clinical Approach

Chairperson: Terry C. Hrubec, E. Via Virginia College of Osteopathic Medicine

Lecturer: Kenneth L. Jones, UCSD, CA MotherToBaby

2:35 PM-5:30 PM

Chemicals Altering Signaling Molecules and Developmental Pathways Symposium

(Joint with DNTS)

Organized by the BDRP Public Affairs Committee

Chairpersons: Christine Perdan Curran, Northern Kentucky University; and Rajesh C. Miranda, Texas A&M Health Science Center

2:35 PM-2:40 PM		Introduction
2:40 PM-3:15 PM	S5	Pdgfra and mTOR Signaling in Alcohol Teratogenesis Johann K. Eberhart, The University of Texas at Austin
3:15 PM-3:50 PM	S6	Alcohol and Cannabinoids Act through Overlapping Pathways Critical for Brain and Face Development Karen E. Boschen, SUNY Upstate Medical University
3:50 PM-4:05 PM		Break
4:05 PM-4:40 PM	S 7	Executive Function Deficits after Prenatal Opioid Exposure Relate to Changes in Microglia Brittany Smith, Northern Kentucky University
4:40 PM-5:15 PM		
	S8	The Role of the Aryl Hydrocarbon Receptor in Multi-Organ Developmental Disorders Christine Perdan Curran, Northern Kentucky University

2:35 PM-5:30 PM

Genetic and Environmental Factors Driving Facial Morphology and Dysmorphology Symposium

Chairpersons: Seth M. Weinberg, University of Pittsburgh; and John R. Shaffer, University of Pittsburgh

2:35 PM-2:40 PM		Introduction
2:40 PM-3:10 PM	S9	The Genetic Architecture of the Human Face: From Morphology to Dysmorphology Seth M. Weinberg, University of Pittsburgh
3:10 PM-3:40 PM	S10	Quantifying Craniofacial Variation during Development: Implications for Understanding Genotype-Phenotype Correlation and Structural Birth Defects Rebecca M. Green, University of Pittsburgh
3:40 PM-3:55 PM		Break
3:55 PM-4:25 PM	S11	Gene-Environment Interactions in Nonsyndromic Orofacial Clefting Mary L. Marazita, University of Pittsburgh

4:25 PM-4:55 PM	S12	Mechanism-Based Identification of Environmental
		Risk Factors for Orofacial Clefts

Robert J. Lipinski, University of Wisconsin

4:55 PM-5:30 PM Discussion

5:30 PM-7:00 PM Poster Session 2

(Joint with DNTS)

BDRP Posters P25–P48

LB5-LB8

DNTS Posters 12–22

Tuesday, June 25, 2024

7:00 AM-3:30 PM Registration Open

7:00 AM-8:00 AM Membership Committee Meeting

7:00 AM-8:00 AM Publications Committee Meeting

7:00 AM-8:00 AM Science Committee Meeting

8:00 AM-10:55 AM Neural Tube Defects in a Post-Folate Fortified World Symposium

(Joint with DNTS)

Chairpersons Robert M. Cabrera, Baylor College of Medicine; and

Richard H. Finnell, Baylor College of Medicine

8:00 AM–8:10 AM Introduction

Richard H. Finnell, Baylor College of Medicine

8:10 AM—8:40 AM S13 Genomic Advances in Understanding the Etiology

of Neural Tube Defects

M. Elizabeth Ross, Weill Cornell Medicine

8:40 AM–9:10 AM S14 Policy Matters: Folate Fortification,

Pharmaceutical Interactions, and Neural Tube

Defect

Robert M. Cabrera, Baylor College of Medicine

9:10 AM-9:25 AM Break

9:25 AM–9:55 AM S15 Folic Acid and Birth Defect Prevention: Metabolic

Regulation of Biomechanical Forces Explain the Beneficial Effects of Folic Acid in Preventing

Preventable Birth Defects

Richard H. Finnell, Baylor College of Medicine

9:55 AM-10:25 AM S16 Precision Medicine Approaches for Treating

Spina Bifida

Bruna Corradetti, Baylor College of Medicine

10:25 AM-10:55 AM Discussion

8:00 AM-10:55 AM Platform Session 4

Chairpersons: Leyla Sahin, US FDA, CDER; and J. Michael Wright, US Environmental Protection Agency

8:00 AM-8:10 AM		Introduction
8:10 AM-8:25 AM	22	Addressing Disparities in Pregnancy Research: Updates from FDA Leyla Sahin, US FDA, CDER
8:25 AM-8:40 AM	23	Defining DNA Methylation-Regulated Molecular Mechanisms That Control Cranial Neural Crest Biology Orofacial Morphogenesis and Orofacial Cleft Pathogenesis Christopher R. Jabbarpour, University of Wisconsin-Madison
8:40 AM-8:55 AM	24	Relationship between Co-occurring Structural Birth Defects and Leukemia Risk in Children with Down Syndrome Ching-Ju Hsu, Baylor College of Medicine
8:55 AM-9:10 AM	25	The Teratogenic Risk Impact and Mitigation (TRIM) Tool: Development of Scoring Weights to Prioritize Medications for Risk Management Beyond Labelling Almut Winterstein, University of Florida
9:10 AM-9:25 AM		Break
9:25 AM-9:40 AM	26	devTOX <i>quick</i> Predict Accurately Predicts the Developmental Toxicity Potential of Compounds with Diverse Mechanisms of Action <i>Jessica A. Palmer, Stemina Biomarker Discovery, Inc.</i>
9:40 AM-9:55 AM	27	Efforts to Enhance Birth Defects Treatment, Research, and Prevention by the Hospital-Based Birth Defects Surveillance in Kampala, Uganda, 2015–2023 Daniel Mumpe-Mwanja, Makerere University— Johns Hopkins University Research Collaboration
9:55 AM-10:10 AM	28	Associations between Disinfection Byproducts and Birth Defects: Use of Relative Potency Factors J. Michael Wright, US Environmental Protection Agency
10:10 AM-10:25 AM	29	Evaluation of FDA's Pregnancy and Lactation Post-Marketing Requirements From 2007 to 2023 Abigail Melake, US Food and Drug Administration

10:25 AM-10:40 AM	30	Postnatal Inhibition of Fetal Brain DNA
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Methylation May Reverse Gene Dysregulation Associated with BRCA1- and Ethanol-dependent Oxidative DNA Damage During Development Sophia M. Richards, University of Toronto

10:40 AM-10:55 AM 31 Insights of Local Ancestry from an Orofacial Cleft

Genome-Wide Association Study in a Filipino

Cohort

Noah Herrick, University of Pittsburgh

11:00 AM-12:00 Noon Robert L. Brent Lecture—Teratogen Update

Everywhere All at Once: The Prenatal Chemical Exposome and Influences on

Health and Health Inequities

(Joint with DNTS)

Chairperson: Philip J. Lupo, Baylor College of Medicine

Lecturer: Tracey Woodruff, University of California San Francisco

12:00 Noon-1:45 PM Lunch and Learn Mini Course

Climate Change: Heat and Wildfires

(Separate Registration Required)

Organized by the Education Committee

Chairperson: Terry C. Hrubec, E. Via Virginia College of Osteopathic Medicine

12:00 Noon–12:10 PM Lunch Pick-Up

12:10 PM–12:45 PM Ambient Temperature, Heat Stress, and Adverse

Birth Outcomes

Julia M. Gohlke, Virginia Tech

12:45 PM–1:20 PM The Effects of Wildfires on Development

Rebecca J. Schmidt, University of California,

Davis

1:20 PM-1:45 PM Discussion

12:00 Noon–2:00 PM Lunch on Your Own

2:00 PM-5:00 PM New Approaches to Elucidate Contributors to Placental Dysfunction

Symposium

Organized by the BDRP Science Committee

Chairpersons: Suzanne E. Fenton, NC State University; and

Thomas B. Knudsen, US Environmental Protection Agency (Retired)

2:00 PM–2:05 PM Introduction

2:05 PM–2:40 PM S17 Placental Dysfunction in CD-1 Mice Following

Gestational Exposure to Per- and Polyfluoroalkyl

Substances

Bevin E. Blake, US Environmental Protection

Agency

2:40 PM-3:15 PM	S18	Toxicological and Nutritional Influences on Placental Signaling Pathways and Epigenetics <i>John M. Rogers, ToxStrategies, Inc.</i>
3:15 PM-3:30 PM		Break
3:30 PM-4:05 PM	S19	Chorionic Villus-Derived Human Trophoblast Stem Cells: A Novel Approach to Enhance Genetic Diversity in Toxicity Testing Kaela M. Varberg, Children's Mercy Research Institute
4:05 PM-4:40 PM	S20	Organoids as Models of the Maternal-Fetal Interface Carolyn B. Coyne, Duke University
4:40 PM-5:00 PM		Discussion

Wednesday, June 26, 2024

6:30 AM-7:30 AM BDRP 43rd Annual Volleyball Game

7:30 AM-1:30 PM Registration Open

8:00 AM-9:00 AM BDRP and ETS Exchange Lecture (L2)

Labeling and Communication Risk

Chairpersons: Anthony M. DeLise, Novartis Pharmaceuticals Corporation; and Jason C. Manton, Toxiqua Ltd.

BDRP

Leyla Sahin, US FDA, CDER

ETS

Helen-Marie Dunmore, Charles River

9:05 AM-12:15 PM Developmental Neuropathology in Rodents: Chemicals versus Pediatric Pharmaceuticals Workshop

(Joint with DNTS)

Chairpersons: Prägati S. Coder, Charles River Laboratories, Ashland LLC; and

Lori A. Dostal, LD DART Consulting

9:05 AM-9:25 AM W2 Regulatory Requirements for the Assessment of

Developmental Neuropathology Following Chemical and Pharmaceutical Exposure *Prägati S. Coder, Charles River Laboratories,*

Ashland LLC

9:25 AM–10:05 AM W3 Neuropathology Evaluation of Olney Lesions in

Regulatory Drug Development Toxicology

Studies

Deepa Rao, Greenfield Pathology Services

10:05 AM-10:35 AM Warkany Tea

10:35 AM-11:10 AM	W4	Developmental Neurotoxicity and Brain Morphometric Evaluations for Chemicals Catherine Picut, Charles River Pathology		
		Associates Inc.		
11:10 AM-11:40 AM	W5	Neuropathology Evaluation in Juvenile Animal Toxicity Studies for Pharmaceuticals Brad Bolon, GEMpath, Inc.		
11:40 AM-12:15 PM		Panel Discussion		
Lunch on Your Own				
Awards Committee Meeting				
Public Affairs Committee Meeting				
Student Affairs Committee Meeting				
DART Strategies for Oligonucleotides Symposium				
Chairpersons: Bethany R. Hannas, Eli Lilly and Company; and Michael V. Templin, Charles River Laboratories				
Sponsored by the Health and Environmental Sciences Institute				
1:20 PM-1:55 PM	S21	Oligonucleotides: What Are They and What		

1:20 PM-1:55 PM	S21	Challenges Do They Bring to DART Assessments? Tacey E. White, Tacey White Consulting
1:55 PM-2:30 PM	S22	Principles of Study Design for DART Studies with Oligonucleotides Bethany R. Hannas, Eli Lilly and Company
2:30 PM-2:45 PM		Break
2:45 PM-3:20 PM	S23	Approaches for Off-Target Assessment and DART Screening of Oligonucleotides Dinah Misner, Aligos Therapeutics, Inc.
3:20 PM-3:55 PM	S24	DART Assessment for Oligonucleotide-Based Therapeutics: A CDER Perspective Ronald Wange, FDA, CDER
3:55 PM-4:15 PM		Discussion

4:30 PM-5:45 PM Annual Meeting Awards Presentation and Business Meeting

12:15 PM-1:15 PM

12:15 PM-1:15 PM

12:15 PM-1:15 PM

12:15 PM-1:15 PM

1:20 PM-4:15 PM

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

Annual Business Meeting

6:30 PM-9:30 PM Closing Celebration

Thursday, June 27, 2024

7:00 AM-9:30 AM Council 2 Meeting

Council 2 Meeting (2024–2025 Council members)