

## DOHaD Summer Course 2023: First Principles and Future Directions

Day One

**August 7: Social Determinants of DOHaD: Epidemiological Models and Gaps in Knowledge**  
Moderator: Leslie Myatt, Ph.D. FRCOG

8 a.m.	<b>Check-in</b>
8:30 a.m.	<p><b>Welcome</b></p> <p><b>Leslie Myatt, Ph.D., FRCOG</b>, Professor of Obstetrics and Gynecology; Director of Perinatal Research, OHSU School of Medicine; Endowed Professor and Director, Bob and Charlee Moore Institute for Nutrition &amp; Wellness; Director, Center for Developmental Health, OHSU</p>
8:40 a.m.	<p><b>Why We Still Need A Human Placenta Project and Continued Placenta Research to Support Our Understanding of DOHaD</b></p> <p><b>David Weinberg, Ph.D.</b>, Project Lead, Human Placenta Project; Program Officer, Contraception Research Branch, National Institute of Child Health and Human Development (NICHD)</p>
9 a.m.	<p><b>Chronic Diseases are on the Rise: Is Nutrition a Culprit?</b></p> <p><b>Kent Thornburg, Ph.D.</b>, Professor Emeritus of Cardiovascular Medicine, OHSU School of Medicine</p>
<p><b>Keynote</b> 9:30 a.m.</p>	<p><b>Programming By Obesity During Pregnancy - A Window of Opportunity to Improve the Health of Two Generations</b></p> <p><b>Susan Ozanne, Ph.D.</b>, Professor of Developmental Endocrinology, University of Cambridge</p>
10:30 a.m.	<b>BREAK</b>
Moderator: <b>Terry Morgan, M.D., Ph.D.</b>	
10:45 a.m.	<p><b>How Two Decades of Community-engaged Research Informed an Alaska DOHaD Project</b></p> <p><b>Scarlett Hopkins, R.N., M.A.</b>, OHSU Schools of Medicine and Nursing, Director of Clinical Research, Alaska Native Health and Wellness Research Center, Moore Institute for Nutrition &amp; Wellness, OHSU</p> <p><b>Bert Boyer, Ph.D.</b>, Professor of Obstetrics and Gynecology, Bob and Charlee Moore Endowed Professor, Director, Alaska Native Health and Wellness Research Center, OHSU Knight Cardiovascular Institute, School of Medicine, OHSU</p>
11:15 a.m.	<p><b>Testing DOHaD Hypotheses About Drivers of Childhood Growth Using Epidemiologic Study Designs: Challenges and Opportunities</b></p> <p><b>Janne Boone-Heinonen, Ph.D., M.P.H.</b>, Associate Professor, OHSU-PSU School of Public Health</p>

11:45 a.m.	<b>Back to the Future: The Social Construction of DOHaD-related Exposures and the Promise of Public Health Interventions</b> Lynne Messer, Ph.D., M.P.H.; Professor, OHSU-PSU School of Public Health
12:15 p.m.	<b>Lunch and time to visit with faculty</b>
1:15 p.m.	<b>Trainee/Registrant Brief Talks</b>
4:30 p.m.	<b>BREAK</b>
5:30 - 7 p.m.	<b>Evening Reception</b> Drinks and Appetizers on the Kohler Pavilion Patio on Marquam Hill Campus, OHSU (tram pass required)

**Day Two**  
**August 8: Breadth of DOHaD Mechanisms Impacting Pathophysiology**  
Moderator: Lisa Vrooman, Ph.D.

8:30 a.m.	<b>Coffee and tea service</b>
8:50 a.m.	<b>Welcome Back – Leslie Myatt, Ph.D., FRCOG</b>
9 a.m.	<b>Biopsychosocial Markers of Risk for Psychopathology During Adolescence</b> Bonnie Nagel, Ph.D., Senior Associate Vice President for Research, Professor, Psychiatry & Behavioral Neuroscience, Vice Chair for Research, Psychiatry, OHSU
10 a.m.	<b>The Placenta: More Than a Conduit</b> Leslie Myatt, Ph.D., FRCOG, Professor of Obstetrics and Gynecology; Director of Perinatal Research, OHSU School of Medicine; Endowed Professor and Director, Bob and Charlee Moore Institute for Nutrition & Wellness; Director, Center for Developmental Health, OHSU
10:30 a.m.	<b>BREAK</b>
10:45 a.m.	<b>Monitoring the Effect of Intrauterine Environment on Fetal Brain Development in Rhesus Macaques with Inutero MRI</b> Chris Kroenke, Ph.D., Professor, Advanced Imaging Research Center, Oregon National Primate Research Center, OHSU
11:15 a.m.	<b>Developmental Programming of Neurobehavioral Development by the Perinatal Environment</b> Elinor Sullivan, Ph.D., Associate Professor of Psychiatry, School of Medicine, OHSU
11:45 a.m.	<b>BREAK</b>
12:00 p.m.	<b>In Vitro Gametogenesis</b> Shoukhrat Mitalipov, Ph.D., Professor and Director, Center for Embryonic Cell and Gene Therapy, OHSU
1:00 p.m.	<b>Lunch and time to visit with faculty</b>
2:00 p.m.	<b>Placental Pathology and Developmental Delay</b> Terry Morgan, M.D., Ph.D., Professor of Pathology and Laboratory Medicine; Professor of Obstetrics and Gynecology; Professor of Biomedical Engineering, OHSU
2:30 p.m.	Leave for Heart of Portland river cruise by Portland Spirit
3:00 p.m.	Boarding / Departure from Salmon Street Springs Dock (SW Naito Pkwy & Salmon St)
3:30 – 5:00 p.m.	River cruise adventure (*Pre-registration required)

Day Three  
**August 9: Promise of Prevention and Intervention**  
 Moderator: **Victoria Roberts, Ph.D.**

8:30 a.m.	<b>Coffee and tea service</b>
8:50 a.m.	<b>Welcome Back</b> <b>Leslie Myatt, Ph.D. FRCOG</b>
9 a.m.	<b>Nanoparticle Tx of Placental Function</b> <b>Helen Jones, Ph.D.</b> , Associate Professor, Department of Physiology and Aging, CoDirector, Center for Research in Perinatal Outcomes, Co-Director, Reproductive and Perinatal Biology Research Program, University of Florida College of Medicine
10 a.m.	<b>Optimizing Embryo Culture Media to Prevent Adverse Outcomes Induced By Assisted Reproductive Technologies</b> <b>Lisa Vrooman, Ph.D.</b> , Assistant Professor, Division of Reproductive and Developmental Sciences, Oregon National Primate Research Center
10:30 a.m.	<b>BREAK</b>
10:45 a.m.	<b>The Preconception and Interconception Windows: Examining the Evidence for Lifestyle Interventions to Improve Maternal and Fetal Pregnancy Outcomes</b> <b>Kimberly Vesco, M.D., M.P.H.</b> , Senior Investigator, Kaiser Permanente
11:15 a.m.	<b>Can a Healthy Diet Mitigate the Effects of Maternal Obesity on Metabolic Outcomes in Offspring?</b> <b>Carrie McCurdy, Ph.D.</b> , Associate Professor of Human Physiology, University of Oregon
11:45 a.m.	<b>This Little Piggy Had None: Effects of Maternal Protein Restriction in Microswine Offspring</b> <b>Beth DuPriest, Ph.D.</b> , Chief Science Officer, Vaginal Biome Science
12:15 p.m.	<b>Lunch and time to visit with faculty</b>
1:15 p.m.	<b>Trainee/Registrant Brief Talks</b>
3 p.m.	<b>BREAK</b>
3:30 - 5 p.m.	<b>Trainee/Registrant Brief Talks</b>
5 p.m.	<b>Closing Remarks</b>