



DOHaD Summer Course 2025

Environmental Impact on Developmental Programming

Day 1
Monday, July 28

- 8 a.m. Check-in and coffee
- 8:30 a.m. ***Keynote: Developmental programming – why study the periconceptional period?***
Lawrence Reynolds, Ph.D. – University Distinguished Professor, Center for Nutrition and Pregnancy, North Dakota State University
- 9:30 a.m. Travel to Oregon National Primate Research Center (ONPRC)
- 10:30 a.m. ONPRC tour and overview
- 11:45 a.m. Lunch and Connection Corner
- 1:15 p.m. ***A non-human primate model of fetal alcohol spectrum disorder: the effects on brain and behavior***
Virginia C. Cuzon Carlson, Ph.D. – Associate Professor, ONPRC, OHSU
- 1:45 p.m. ***Metabolic reprogramming of fetal hematopoietic stem and progenitor cells by maternal obesity***
Oleg Varlamov, M.D., Ph.D. – Assistant Professor, ONPRC, OHSU
- 2:15 p.m. ***Using pregnant NHP models to understand perinatal brain outcomes***
Meredith Kelleher, Ph.D. - Assistant Professor, Division of Reproductive and Developmental Sciences, ONPRC, OHSU
- 2:45 p.m. ***Malaria in pregnancy and early childhood***
Brandon Wilder, Ph.D. – Associate Professor, OHSU
- 3:15 p.m. BREAK
- 3:30 p.m. Speakers' panel discussion – Moderator: Victoria Roberts, Ph.D.
- 4:30 p.m. Reception at ONPRC
- 6 p.m. Travel back to KCRB

Tuesday, July 29

8:30 a.m. Check-in and coffee

9 a.m. ***Keynote: Developmental exposure to endocrine disruptors and later life diseases***
Jerry Heindel, Ph.D. – HEEDS

10 a.m. ***Environmental exposures and uteroplacental blood flow assessments***
Victoria Roberts, Ph.D. – Associate Professor, ONPRC, OHSU

10:30 a.m. BREAK

10:45 a.m. ***Epigenetic memory of environmental stress response***
Caren Weinhouse, Ph.D. – Assistant Professor, OHSU

11:15 a.m. Speakers' panel discussion – Moderator: George Giraud, M.D., Ph.D.

Noon Lunch

1 p.m. ***The NIH ECHO program: Enhancing children's health for generations to come***
Melissa Zajdel, Ph.D. – Program Officer, ECHO Program, National Institutes of Health

1:30 p.m. ***How to give a community talk***
Kayla McDaniel, M.A.T., M.Ed. – Education Outreach Coordinator, ONPRC, OHSU

ATTENDEE PRESENTATIONS

2 p.m. ***Microdeletion in mice severely alters placental development only in male offspring***
Annemarie Carver – University of Iowa

2:15 p.m. ***Extracellular vesicle interactions with fetal brain microglia in a prenatal stress model***
Hannah E. Hazzard – University of Iowa

2:30 p.m. ***Polyhydramnios is associated with worse perinatal outcomes for pregnant persons with gestational diabetes***
Alyssa Hersh, M.D., M.P.H. – OHSU

2:45 p.m. BREAK

3 p.m. ***Vascular development, cellular proliferation, and growth dynamics of the placenta in beef heifers throughout gestation***
Chutikun Kanjanaruch – North Dakota State University

3:15 p.m. ***Investigating associations of endogenous metabolites with pollutant mixtures in pregnant women using a nontargeted exposomics approach***
Adam Pedersen – Wayne State University

3:30 p.m. ***Impaired mitochondria function, not abundance, drives impaired FA storage and uptake in human trophoblasts***
Kyle Siemers, Ph.D. – University of South Dakota Sanford School of Medicine

3:45 p.m. ***The social patterning of environmental exposures***
Lynne C. Messer, Ph.D., M.P.H. – Professor, Epidemiology and Community Health, OHSU-PSU School of Public Health

4:15 p.m. ***Placental mediation of programming effects of the maternal exposome and metabolome***
Leslie Myatt, Ph.D., FRCOG – Director of Center for Developmental Health; Professor of Obstetrics and Gynecology, OHSU

4:45 p.m. Closing remarks