8:30am-8:45am - Opening Remarks
Mary Leonard, MD, MSCE, Stanford Maternal & Child Health Research Institute; Lloyd B. Minor, MD, Stanford School of Medicine; Rick Majzun, Lucile Packard Children's Hospital Stanford; Cynthia Brandt, PhD, Lucile Packard Foundation for Children's Health

8:45am-9:45am - Welcome Introductions & Keynote
Moderator: Anthony Oro, MD, PhD, Stanford Maternal & Child Health Research Institute

• David A. Williams, MD, Boston Children’s Hospital; Flipping the Switch on Fetal Globin in Sickle Cell Disease: From GWAS to Therapeutics

9:45am-10:45am - Session 1: Foundation in Cell and Gene Therapy in Maternal and Child Health
Moderators: Natalia Gomez-Ospina, MD, PhD, and Melissa Mavers, MD, PhD, Stanford School of Medicine

• Natalia Gomez-Ospina, MD, PhD, Stanford School of Medicine; Using the blood to treat the brain: Engineering the hematopoietic system to treat non-hematological diseases

• Adam Wilkinson, PhD, Stanford School of Medicine; Ex vivo expansion of functional hematopoietic stem cells: Towards new paradigms for cell and gene therapy

• Kristy Red-Horse, PhD, Stanford School of Humanities & Sciences; Single cell analysis of human coronary artery development

10:45am-11:30am - VIRTUAL POSTER SESSION #1

11:30am-12:30pm - Session 2: Scientific Advances in Diversity, Health Equity, and Social Justice
Moderators: Trung Pham, MD, PhD, and Venkatesh Krishnan, PhD, Stanford School of Medicine

• Fernando S. Mendoza, MD, MPH, Stanford School of Medicine; Diversity of children and the need for transformative pediatrics

• Juno Obedin-Maliver, MD, MPH, Stanford School of Medicine; Extending the reach towards equity and inclusion: Reconceptualizing maternal and child health research for people of all genders and sexual orientations

• Ananta Addala, DO, MPH, Stanford School of Medicine; Provider bias in health care provision: The pediatric diabetes inequity story

12:30pm-1:15pm - VIRTUAL POSTER SESSION #2

1:15pm-1:50pm – Break

1:50pm-2:00pm - Visionary Leadership Award
Moderator: Mary Leonard, MD, MSCE, Stanford Maternal & Child Health Research Institute

2:00pm-2:45pm - Session 3: MCHRI Early Career Investigators and Trainees
Moderators: Fernando S. Mendoza, MD, MPH; David K. Stevenson, MD, Stanford Maternal & Child Health Research Institute

• Kevin Contrepois, PhD, Stanford School of Medicine; Global urine metabolic profiling to predict gestational age

• Ina Stelzer, PhD, Stanford School of Medicine; Integrated trajectories of the maternal metabolome, proteome, and immunome predict the onset of labor

• Victoria Ward, MD, Stanford School of Medicine; Evaluation of a large-scale maternal and child health program in Bihar, India through an equity lens

• Sharon Paige, MD, PhD, Stanford School of Medicine; Mitochondrial dysfunction is associated with impaired contractility in hypoplastic left heart syndrome

• Mark Wilkes, PhD, Stanford School of Medicine; Metformin upregulates miR-26a to improve erythropoiesis in preclinical models of Diamond Blackfan Anemia through suppression of NLK expression

2:45pm-3:30pm - VIRTUAL POSTER SESSION #3

3:30pm-4:30pm - Session 4: The COVID-19 Pandemic and Innovations in School-Age Learning
Moderators: Anthony Oro, MD, PhD, and Thomas Robinson, MD, MPH, Stanford School of Medicine

• Household and School Transmission of COVID-19: Impact on Children and Families; Yvonne (Bonnie) Maldonado, MD, Stanford School of Medicine

• SARS-CoV-2 and Schools: Challenges, Controversies, and Solutions; C. Jason Wang, MD, PhD, Stanford School of Medicine; Lee Sanders, MD, MPH, Stanford School of Medicine; Amy R. Gerstein, PhD, Stanford Graduate School of Education