

CTR Spring Half Day Seminar

Thursday 13th May 2021



Programme:

13:00 - 13:40 **Welcome and keynote**

Prof Kathy Niakan (Director of Centre for Trophoblast Research)

Molecular mechanisms regulating human trophoblast initiation

13:40 - 14:25 **Session 1: Early trophoblast and placental immunology**

Chair: Dr Irving Aye

Delineating regulators of primate trophoblast development from preimplantation to early invasion

Dylan Siriwardena (Department of Physiology, Development and Neuroscience)

Primitive macrophage progenitors in the first trimester human placenta

Jake Thomas (Department of Pathology)

Analysis of human placental macrophages and the identification of emerging populations during pregnancy

Anna Appios (Department of Pathology)

14:25 - 14:40 **Coffee Break**

14:40 - 15:25 **Session 2: The placenta in health and disease**

Chair: Dr Vicente Perez-Garcia

The RNA landscape of the human placenta in health and disease

Dr Sung Gong (Department of Obstetrics and Gynaecology)

Maternal and fetal p110 α deficiency induces sex-specific changes in feto-placental growth and placental mitochondrial function

Daniela Pereira Carvalho (Department of Physiology, Development and Neuroscience)

Diet-induced maternal obesity leads to reduced uterine compliance and fetal growth-restriction in a murine model

Antonia Hufnagel (Institute of Metabolic Science)

15:25 - 15:55 **Keynote speaker** (introduced by Dr Courtney Hanna)

Prof Jenny Nichols (Stem Cell Institute)

Specification of trophoblast in the early mammalian embryo
