

**MSc Clinical Embryology Research Talks 2024**

**Anne Anderson Lecture Theatre**

**Tuesday 2<sup>nd</sup> July 2024**

**09:15 Introduction from Professor Kevin Coward**

**SESSION 1 (15 minutes per candidate)**

***Chair Session 1: Ms Rajwa Mecca***

**09:30 Iryna Ivanova:** Identifying and analyzing the cellular composition of testicular organoids developed from frozen or fresh tissue.

**09:45 Nicole Moosbrugger:** Impact of tissue fixation on ECM expression in mouse ovarian tissues.

**10:00 Karina Lo:** Investigating calcium dynamics during the generation of the first heartbeat in the developing mouse embryo.

**10:15 Eloise Passarella:** Understanding the relationship between the appearance of endometriosis and broader clinical features.

**10:30 Isabella Honess:** Characterising the early postpartum mammary cell transcriptome.

**10:45 Liyanka Singhvi:** Recombinant human Phospholipase C zeta (PLC $\zeta$ ) protein and its potential therapeutic application.

**11:00 Malak Amer:** Investigating the 'do not eat me' signal, CD47 in peritoneal fluid derived extracellular vesicles in endometriosis.

**11:15 COFFEE BREAK**

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**SESSION 2 (15 minutes per candidate)**

***Chair Session 2: Ms Abigail Freeman Blatchford***

- 11:30**      **Phoebe Laslett:** Fluorescence-Based Nanoparticle Tracking Analysis for Characterisation of Endometrial Extracellular Vesicles.
- 11:45**      **Tiya Mistry:** Comparative analysis of reptile and mammal embryogenesis.
- 12:00**      **Sara Hajian:** Analysis of DNA from human embryos subjected to CRISPR-Cas9 genome editing.
- 12:15**      **Emily Robertson:** Can extracellular vesicles be used as a non-invasive delivery nanotool to deliver Phospholipase C zeta (PLC $\zeta$ ) to oocytes?
- 12:30**      **Joy Ngoloma:** Endometrial EV's throughout the menstrual cycle – detecting decidualisation and endometrial receptivity.
- 12:45**      **Margherita Mazzaschi:** A comparison of testicular organoids generated from testicular tissue and from a combination of sorted cell lines.
- 13:00**      **Bruce Creaner:** Investigating the role of macrophages in the regenerating heart.
- 13:15**      **LUNCH**

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**SESSION 3 (15 minutes per candidate)**

***Chair Session 3: Ms Jasmine Liu***

- 14:00**      **Gayathri Venkatakrisnan:** Gain of function mutations in the FGF/RAS/MAPK pathway: an advantage or hinderance to male fertility?
- 14:15**      **Catia Huang:** Cyprus Women's Health Research (COHERE) Initiative.
- 14:30**      **Annie Wang:** Perinatal mental health: Investigating the role of social and other determinants in rural India and similar contexts.
- 14:45**      **Quinn Obrigewitch:** Endometrial MAIT immune cells in endometriosis.
- 15:00**      **Caroline Zack:** Understanding placental transport of vital nutrients in pregnancy.
- 15:15**      **Nicholaus Mazuguni:** Genetic screening of the bidirectional promoter region of Phospholipase C Zeta (PLC $\zeta$ ) to identify mechanisms responsible for the diversity of protein expression.
- 15:30**      **Kate Fowler:** Investigation into the effect of delayed freezing on ovarian cryopreservation.
- 15:45**      **CREAM TEA**