The 2016 NSW Reproduction Forum

Proudly hosted by the University of Newcastle’s Priority Research Centre in Reproductive Science

Monday, 12th December, 2016
Location: The Hunter Medical Research Institute, Caves Lecture Theatre, Level 4
Program

SESSION 1 – 11:55 TO 1:15
CHAIRS: JULIA SHAW AND PREETY BAJWA

11:55 – 12:00 Roger Smith  University of Newcastle
   Welcome

12:00 – 12:30 Robert Gilchrist  University of NSW
   Oocyte IVM: a tale of research translation and commercialisation

12:30 – 12:45 Jonathan Paul  University of Newcastle
   Using Nanotechnology to Target Drug Delivery to the Uterus

12:45 – 1:00 Camilla Whittington  University of Sydney
   The Genetic Basis of Seahorse Pregnancy: Beyond the Amniote Model

1:00 – 1:15 Jessica Eastick  IVF Australia
   Is Early Embryo Development as Observed by Time-lapse Microscopy Dependent on Whether Fresh or Frozen Sperm was Used for ICSI? A Cohort Study

LUNCH – 1:15 TO 2:00
SANDWICHES, WRAPS AND BEVERAGES
SESSION 2 – 2:00 TO 3:30
CHAIRS: SARAH DELFORCE AND WEI ZHOU

2:00 – 2:30  Chris O’Neill  University of Sydney
Unravelling the Roles of DNA Methylation in Development

2:30 – 2:45  Manish Kumar  University of Newcastle
Wnt: the Dancing Master of Male and Female Fertility

2:45 – 3:00  Taylor Pini  University of Sydney
A Quantitative Comparison of Epididymal and Ejaculated Ram Spermatozoa

3:00 – 3:15  Jacinta Martin  University of Newcastle
Identification of a Key Role for Permeability Glycoprotein in Enhancing the Cellular Defence Mechanisms of Fertilized Oocytes

3:15 – 3:30  Kym Rae  University of Newcastle
The Gomeroi gaaynggal cohort - a prospective cohort of Indigenous women and their children

AFTERNOON TEA – 3:30 TO 4:00
CAKES, COFFEE AND TEA
### SESSION 3 – 4:00 TO 5:20

**CHAIRS:** AIMEE KATEN AND BRENDAN HOUSTON

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Title</th>
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<tbody>
<tr>
<td>4:00 – 4:30</td>
<td>Kirsty Pringle</td>
<td>University of Newcastle</td>
<td><em>The Prorenin/Prorenin Receptor System in the Placenta: Implications for Pregnancies Complicated by Placental Insufficiency</em></td>
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<td>4:30 – 4:45</td>
<td>Kirsty Walters</td>
<td>University of NSW</td>
<td><em>Are Androgen Actions Involved in the Pathogenesis of Polycystic Ovary Syndrome?</em></td>
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<td>4:45 – 5:00</td>
<td>Michael Bertoldo</td>
<td>University of NSW</td>
<td><em>Nicotinamide Mononucleotide (NMN) can Partly Rescue Maternal Diet-induced Altered Gene Expression in Offspring Ovaries</em></td>
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<td>5:00 – 5:15</td>
<td>John Aitken</td>
<td>University of Newcastle</td>
<td><em>New Horizons for Sperm Cell Biology</em></td>
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<tr>
<td>5:15 – 5:20</td>
<td>John Aitken</td>
<td>University of Newcastle</td>
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### EVENING MIXER— 5:20 TO 7:00

**CANAPES, CHEESE AND FRUIT PLATTERS, BEER, WINE AND SOFT DRINKS**
**Getting there:** The address is 1/1 Kookaburra Circuit New Lambton Heights.

Take the main entrance into John Hunter Hospital from Lookout Rd and follow the road all the way around (marked in blue) until you see the HMRI building.

**Parking** adjacent to the HMRI building (in the red dots) will be restricted, however there is also paid parking available on the grounds of the Hospital (in the green stripes). This will cost up to $10 which can be paid on exit.