

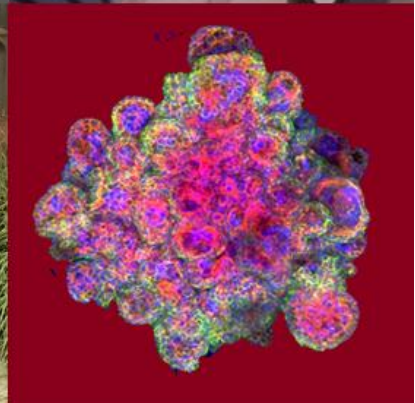
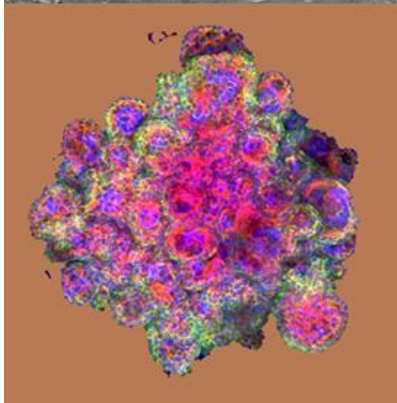
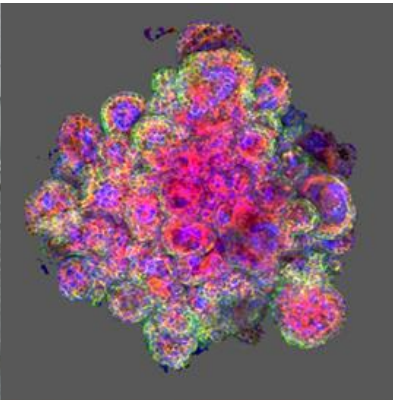
CTR ANNUAL MEETING 2021

Placental-endometrial dialogue and pregnancy

12th 13th July



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Day 1: Monday 12th July

13.50 Welcome and introduction by Wolf Reik, Babraham Institute

Session 1: Endometrium and decidua

Chair: Kathy Niakan, CTR

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| 14.00-14.30 | Hilary Critchley, University of Edinburgh
<i>The normal cycling endometrium</i> |
| 14.30-15.00 | Graham Burton, CTR
<i>Trophoblast-endometrial interactions</i> |
| 15.00-15.30 | Roser Vento, Wellcome Sanger Institute
<i>Single cell technology at the placental-uterine interface</i> |
| 15.30-16.00 | Coffee break |

Session 2: Immunology and evolution

Chair: Francesco Colucci, Department of Obstetrics and Gynaecology

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| 16.00-16.30 | Ashley Moffett, Department of Pathology
<i>The immune system and the first few weeks</i> |
| 16.30-17.00 | Anthony Carter, University of Southern Denmark
<i>Anatomy of placentation: why are humans so different</i> |
| 17.00-17.30 | Peter Parham, Stanford University
<i>Evolution of reproduction and the immune system</i> |

Day 2: Tuesday 13th July

Session 3: Early placental development

Chair: Steve Charnock-Jones, Department of Obstetrics and Gynaecology

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| 09.00-9.30 | Margherita Turco, Department of Pathology
<i>Models to study early placental development</i> |
| 9.30-10.00 | Janet Rossant, University of Toronto
<i>Making the trophectoderm lineage- key events leading up to implantation</i> |
| 10.30-11.00 | Myriam Hemberger, University of Calgary
<i>Early placental development in mice and humans</i> |
| 11.00-11.30 | Coffee break |

Session 4: Pregnancy outcomes and beyond

Chair: Theresa Powell, University of Colorado

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| 11.30-12.00 | Kent Thornburg, The Moore Institute, Oregon Health Sciences University
<i>The placenta is the culprit</i> |
| 12.00-12.30 | Gordon Smith, Department of Obstetrics and Gynaecology
<i>Identifying novel biomarkers for human placental dysfunction</i> |
| 12.30-13.00 | Eric Jauniaux, UCL
<i>Oxygen modulates placental development like sound modulates fetal brain development</i> |
| 13.00-14.00 | Lunch break |

Session 5: Environment and placenta

Chair: Tereza Cindrova-Davies, CTR

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| 14.00-14.30 | Billy Yung, CTR
<i>Placental unfolded protein response and pregnancy complications</i> |
| 14.30-15.00 | Erica Watson, CTR
<i>Trans-generational effect</i> |
| 15.00-15.30 | Mike Nelson, Washington University School of Medicine, St. Louis
<i>Trophoblast Injury and Repair, or Disrepair, in Human Placental Villi</i> |
| 15.30-16.00 | Coffee break |

Session 6: New approaches to placental biology

Chair: Miguel Constancia, Department of Obstetrics and Gynaecology

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| 16.00-16.30 | Diana Bianchi, National Institute of Child Health and Human Development
<i>Circulating nucleic acids as key markers of feto-maternal-placental health</i> |
| 16.30-17.00 | Romina Plitman, University of Tel Aviv
<i>Imaging and Modelling the Human Placenta</i> |
| 17.00-17.30 | Miguel Branco, Blizard Institute
Species-specific regulation of placental gene expression by transposable elements |
| 17.30 | Closing remarks by Charlie Loke |



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Since its inception in 2007, the Centre for Trophoblast Research has been at the forefront of placental and pregnancy research. With over 30 principal investigators, Next Generation Fellows and independent research fellows, the Centre has achieved numerous milestones and scientific breakthroughs during its history. This conference celebrates the extraordinary achievements of the Centre and of retiring director Prof. Graham Burton.