

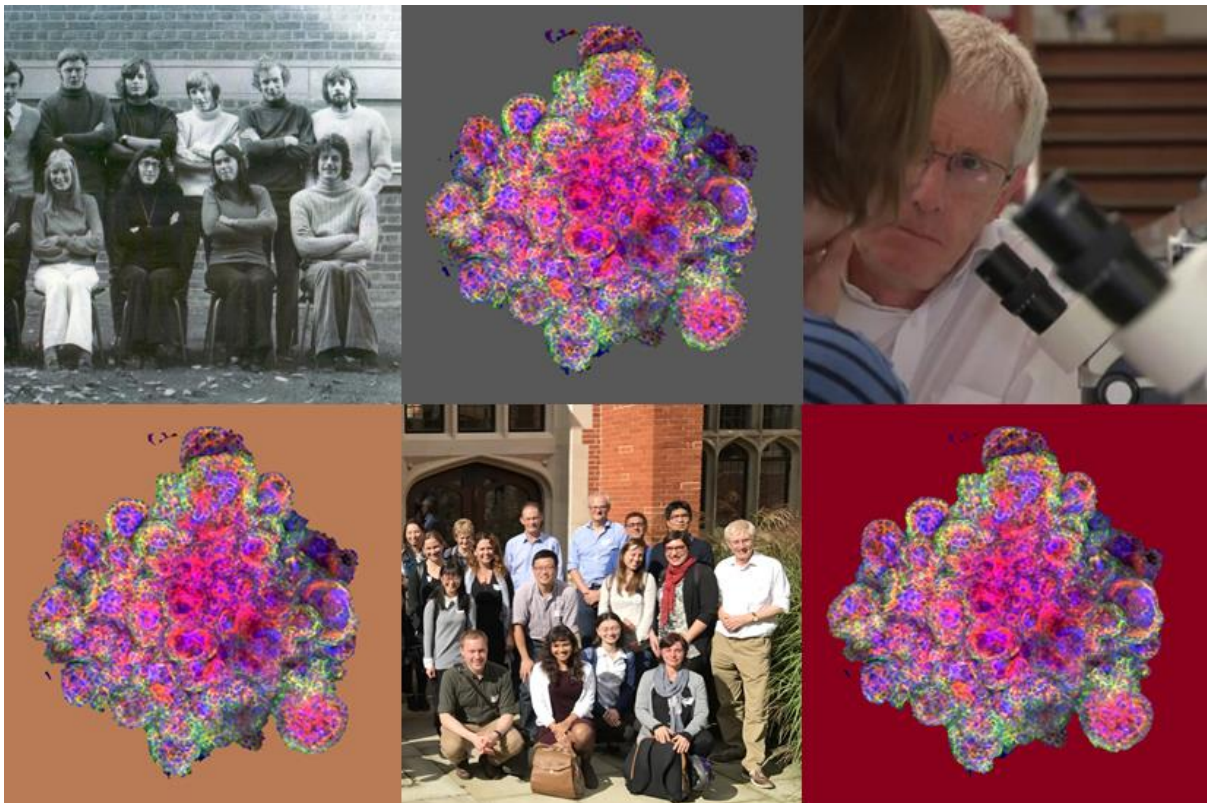
# CTR ANNUAL MEETING 2020

## Placental-endometrial dialogue and pregnancy

6<sup>th</sup> and 7<sup>th</sup> July, Palmerston Room, St John's College, Cambridge



[www.trophoblast.cam.ac.uk](http://www.trophoblast.cam.ac.uk)



Celebrating the achievements of Prof. Graham Burton, CTR Director

Photo credit: M. Turco

# Day 1: Monday 6<sup>th</sup> July

- 13.15 Registration in the foyer of the Divinity building
- 13.50 Welcome and introduction by Wolf Reik, Babraham Institute

## Session 1: Endometrium and decidua

**Chair: Kathy Niakan, The Francis Crick Institute**

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

## Session 2: Immunology and evolution

**Chair: Francesco Colucci, Department of Obstetrics and Gynaecology**

- 16.00 Ashley Moffett, Department of Pathology  
*The immune system and the first few weeks*
- 16.30 Anthony Carter, University of Southern Denmark  
*Anatomy of placentation: why are humans so different*
- 17.00 Peter Parham, Stanford University  
*Evolution of reproduction and the immune system*
- 17.30 End of day 1
- 19.00 Wine reception at the backs (or New Court Cloisters if wet)**
- 19.30 Conference dinner in the college hall**

## Day 2: Tuesday 7<sup>th</sup> July

### Session 3: Early placental development

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

- 9.00-9.30 Margherita Turco, Department of Pathology  
*Models to study early placental development*
- 9.30-10.00 Janet Rossant, University of Toronto  
*Making the trophectoderm lineage- key events leading up to implantation*
- 10.30-11.00 Myriam Hemberger, University of Calgary  
*Early placental development in mice and humans*
- 11.00-11.30 Coffee break, Foyer of the Divinity Building**

### Session 4: Pregnancy outcomes and beyond

**Chair: Theresa Powell, University of Colorado**

- 11.30 – 12.00 Kent Thornburg, The Moore Institute, Oregon Health Sciences University  
*The placenta is the culprit*
- 12.00-12.30 Gordon Smith, Department of Obstetrics and Gynaecology  
*Identifying novel biomarkers for human placental dysfunction*
- 12.30-13.00 Eric Jauniaux, UCL  
*Oxygen modulates placental development like sound modulates fetal brain development*
- 13.00- 14.00 Buffet lunch in the College dining hall**

### Session 5: Environment and placenta

**Chair: Abby Fowden, Department of Physiology, Development and Neuroscience**

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

**15.30-16.00**                      **Coffee break, Foyer of the Divinity Building**

**Session 6: New approaches to placental biology**

**Chair: Miguel Constancia, Department of Obstetrics and Gynaecology**

16.00-16.30                      Diana Bianchi, National Institute of Child Health and Human Development  
*Circulating nucleic acids as key markers of feto-maternal-placental health*

16.30-17.00                      Romina Plitman, University of Tel Aviv  
*Imaging and Modelling the Human Placenta*

17.00-17.30                      Anne Ferguson-Smith, Department of Genetics  
*Epigenetic inheritance and the placenta*

**17.30**                                      **Closing remarks by Charlie Loke, CTR**



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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.