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| **Course programme** | | | | | | | | | | | | | |
| **Day 1: Sunday 3rd July, 2016** | | | | | | | | | | | | |
| 14.00 onwards | | Arrival at St John’s College, Forecourt Porter’s Lodge | | | | | | | | | | |
| 16.00 | | Delegate Presentations , St John’s College, Boys Smith Room, Fisher Building | | | | | | | | | | |
| 18.15 | | Dinner, St John’s College, The Buttery | | | | | | | | | | |
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| **Day 2: Monday 4th July, 2016** | | | | |  | | | | | | | |
| **Placental Development** | | | | | | | | | | | | |
| 08.30 | | Arrival at Department of Physiology, Development and Neuroscience, Physiological Laboratory | | | | | | | | | | |
| 08.30-09.00 | | Induction and safety briefing | | | | **Nuala Daw**  Bryan Matthews Seminar Room | | | | | | |
| 09.00-10.30 | | Placental evolution – genetic studies | | | | **Mick Elliot**  Bryan Matthews Seminar Room | | | | | | |
| **10.30-11.00** | | **Break** | | | | Physiology Building tea room | | | | | | |
| 11.00-12.00 | | Epigenetic mechanisms | | | | **Wolf Reik**  Bryan Matthews Seminar Room | | | | | | |
| 12.00-13.00 | | Trophoblast stem cells | | | | **Myriam Hemberger**  Bryan Matthews Seminar Room | | | | | | |
| **13.00-14.00** | | **Lunch** | | | | Physiology Building tea room | | | | | | |
| 14.00-15.00 | | Mouse placental structure and development | | | | **Erica Watson**  Bryan Matthews Seminar Room | | | | | | |
| **15.00-15.30** | | **Break** | | | | Physiology Building tea room | | | | | | |
| 15.30-17.00 | | Mouse placenta practical | | | | **Erica Watson/** **Joanna Rakoczy**  Histology Classroom | | | | | | |
| **18.00** | | **Dinner:** St John’s College, The Buttery | | | | | | | | | | |
| 19.00 onwards | | Preparation for Epigenetics Journal club  (working in 3 groups, one PowerPoint presentation on one given paper per group)  **Group 1**  **Group 2**    **Group 3** | | | | St John’s College, Boys Smith Room, Fisher Building (no supervision) | | | | | | |
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| **Day 3: Tuesday 5th July, 2016** | | | | | | | | | | | | | |
| **Placental Immunology** | | | | | | | | | | | | | |
| 09.00-10.00 | Immunology of pregnancy | | | | | | | **Francesco Colucci**  Bryan Matthews Seminar Room | | | | | |
| 10.00-11.00 | Immune genes and cells in pregnancy | | | | | | | **Andrew Sharkey**  Bryan Matthews Seminar Room | | | | | |
| **11.00-11.30** | **Break** | | | | | | | Physiology Building tea room | | | | | |
| 11.30-12.30 | | | Clinical and evolutionarily aspects of immunology of placentation | | | | **Ashley Moffett**  Bryan Matthews Seminar Room | | | | | | |
| **12.30-13.30** | | | **Lunch** | | | | **CTR’s Next Generation Fellows will join course delegates for lunch**  Physiology Building tea room | | | | | | |
| 13.30-14.00 | | | Principles of cell isolation from the human placenta and decidua | | | | **Margherita Turco**  Bryan Matthews Seminar Room | | | | | | |
| 14.00-17.45 | | | **Cell isolation and sorting practical: session 1**  Árpád Ferenc Kovács, Felicity Hey, Martha Sosa,  Tongtong Cui, Isabel Martin, Rima Irwinda  Carlos Galaviz-Hernandez  **Cell isolation and sorting practical: session 2**  Antonio Galvao, Andree-Anne, Lisa Campbell,  Nisha Sharma, Sean Nguyen, Jennifer Outwaite,  Camila Cortat, Carlos Salinas | | | | **Margherita Turco & Andrew Sharkey**  Department of Pathology | | | | | | |
| **18.15** | | | **Dinner:** St John’s College, The Buttery | | | | | | | | | | |
| 19.15 onwards | | | Epigenetics Journal Club Presentations | | | | | | **Anne Ferguson-Smith/Wolf Reik**  St John’s College, Boys Smith Room, Fisher Building | | | | |
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| **Day 4: Wednesday 6th July, 2016 – Placental Cell Biology** | | | | | | | | | | | | | |
| **Placental Cell Biology** | | | | | | | | | | | | | |
| 09.00-10.00 | | | Human placental structure and development | | | | **Graham Burton** | | | | | | |
| 10.00-11.00 | | | Trophoblast invasion and spiral artery remodelling | | | | **Steve Charnock-Jones**  Bryan Matthews Seminar Room | | | | | | |
| **11.00-11.30** | | | **Break** | | | | Physiology Building tea room | | | | | | |
| 11.30-13.00 | | | Human placenta histology practical | | | | **Graham Burton/Tereza Cindrova-Davies**  Histology Classroom | | | | | | |
| **13.00-13.45** | | | **Lunch** | | | | Physiology Building tea room | | | | | | |
| 13.45-14.45 | | | Guest lecture: Placenta in a clinical setting | | | | **Christoph Lees**  Bryan Matthews Seminar Room | | | | | | |
| 14.45-15.45 | | | Placental Metabolism | | | | **Andrew Murray**  **Bryan Matthews Seminar Room** | | | | | | |
| **15.45-16.00** | | | **Break** | | | | Physiology Building tea room | | | | | | |
| 16.00-17.30 | | | Respirometry practical: A demonstration of techniques for measuring oxygen consumption in cells and tissue. Participants will see different experimental platforms in action and will have the opportunity to discuss the design of protocols to elucidate changes in metabolism and mitochondrial function."  Or  Explants practical | | | | **Andrew Murray**  Laboratory F7a  **Tereza Cindrova-Davies**  Histology Classroom | | | | | | |
| **18.00** | | | **Dinner:** St John’s College, The Buttery | | | | | | | | | | |
| 19.30 | | | Walking tour of Cambridge – please meet at the Porters’ Lodge ( Trinity Street/St John’s Street i.e. the lodge that is nearest to the street and nearest Trinity College), St John’s College 19.30pm (see page 7 for map of St John’s College) | | | | | | | | | | |
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| **Day 5: Thursday 7th July, 2016** | | | | | | | | | | | | | |
| **Placental Physiology/Bioinformatics** | | | | | | | | | | | | | |
| 09.00-10.00 | Transport | | | | | | | **Abby Fowden**  Bryan Matthews Seminar Room | | | | | |
| 10.00-11.00 | Placental endocrinology | | | | | | | **Amanda Sferruzzi-Perri**  Bryan Matthews Seminar Room | | | | | |
| **11.00-11.30** | **Break** | | | | | | | Physiology Building tea room | | | | | |
| 11.30-12.30 | Placental angiogenesis | | | | | | | **Steve Charnock-Jones**  Bryan Matthews Seminar Room | | | | | |
| **12.30-13.30** | **Lunch** | | | | | | | Physiology Building tea room | | | | | |
| 13.30-17.30 | Genetic bioinformatics practical | | | | | | | **Steve Charnock Jones**  Craik-Marshal Building, Bioinformatics Teaching Facility, Dept. of Genetics | | | | | |
| **18.00** | **Dinner:** St John’s College, The Buttery | | | | | | | | | | | | |
| 19.00 | Fellowship discussion | | | | | | | Facilitated by:  **Amanda Sferruzzi-Perri/ Miguel Constância:**  St John’s College, Boys Smith Room, Fisher Building | | | | | |
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| **Day 6: Friday 8th July, 2016** | | | | | | | | | | | | | |
| **Animal models and approaches** | | | | | | | | | | | | | |
| 08.30-09.30 | | | | Mouse genetic models of placental function | | | | | **Miguel Constância**  Bryan Matthews Seminar Room | | | | |
| 09.30-10.30 | | | | Rodent versus ovine animal models of materno-fetal interactions | | | | | **Dino Giussani**  Bryan Matthews Seminar Room | | | | |
| **10.30-11.00** | | | | **Break** | | | | | Physiology Building tea room | | | | |
| 11 00.12.00 | | | | Placental cell lines | | | | | **Margherita Turco/Lucy Gardener**  Bryan Matthews Seminar Room | | | | |
| **12.00-13.00** | | | | **Lunch** | | | | | Physiology Building tea room | | | | |
| 13.00-14.00 | | | | Stereology theory  Supported by:  Visiopharm logo.JPG | | | | | **Johnnie Bremholm Andersen**  Bryan Matthews Seminar Room | | | | |
| **14.00-14.15** | | | | **Break** | | | | | Physiology Building tea room | | | | |
| 14.15-17.00 | | | | Stereology practical  Supported by:  Visiopharm logo.JPG | | | | | **Johnnie Bremholm Andersen**  **Graham Burton**  Part II classroom | | | | |
| 17.00-18.00 | | | | **Clinical Study Design** | | | | | **Gordon Smith**  Bryan Matthews Seminar Room | | | | |
| **19.30** | | | | **End of Course dinner** | | | | | **The St. John's Chop House**  21-24 Northampton Street  Cambridge CB3 0AD | | | | |