

Course programme

Day 1: Sunday 6th July, 2014

14.00 onwards	Arrival at St Johns College, Forecourt Porter's Lodge
16.00	Delegate Presentations , St John's College, Arthur Quiller-Couch Room, Divinity School
18.15	Dinner, St John's College, The Buttery

Day 2: Monday 7th July, 2014

Placental Development		
08.30	Arrival at Department of Physiology, Development and Neuroscience, Physiological Laboratory (Graham Burton and Nuala Daw to meet with you at Cripps Court Porters' Lodge)	
08.30-09.00	Introduction and safety briefing	Nuala Daw Bryan Matthews Seminar Room
09.00-10.00	Human placental development	Graham Burton Bryan Matthews Seminar Room
10.00-11.00	Mouse placental development	Erica Watson Bryan Matthews Seminar Room
11.00-11.30	Break	Physiology Building tea room
11.30-13.00	Human Anatomy and Development practical	Graham Burton/Amanda Sferruzzi-Perri Histology Classroom
13.00-14.00	Lunch	
14.00-15.00	Epigenetic mechanisms	Wolf Reik Bryan Matthews Seminar Room
15.00-16.00	Trophoblast stem cells	Myriam Hemberger Bryan Matthews Seminar Room
16.00-16.30	Break	Physiology Building tea room
16.30-18.00	Anatomy and Development practical (pregnant mouse / placenta dissections)	Erica Watson/Anne Ferguson-Smith Histology Classroom
18.15	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)	St John's College, Arthur Quiller-Couch Room, Divinity School (no supervision)

Day 3: Tuesday 8th July, 2014**Cell biology and immunology of the placenta**

09.00-10.00	Evolution, migrations, bipedalism, immune system genes and human placentation	Ashley Moffett Bryan Matthews Seminar Room
10.00-11.00	Immune cells and placentation	Francesco Colucci Bryan Matthews Seminar Room
11.00-11.30	Break	Physiology Building tea room
11.30-12.30	Immune genes and placentation	Andrew Sharkey Bryan Matthews Seminar Room
12.30-14.00	Lunch	CTR's Next Generation Fellows will join course delegates for lunch
14.00-17.30	Cell isolation and sorting practical	Andrew Sharkey Department of Pathology
18.00	Dinner: St John's College, The Buttery	
19.00 onwards	Epigenetics Journal Club Presentations	Anne Ferguson-Smith and Wolf Reik St John's College, Arthur Quiller-Couch Room, Divinity School



Day 4: Wednesday 9th July, 2014**Placental physiology**

08.30-9.30	Placental transport	Abby Fowden Bryan Matthews Seminar Room
9.30-10.30	Oxygen metabolism	Andrew Murray Bryan Matthews Seminar Room
10.30-11.00	Break	Physiology Building tea room
11.00-12.00	Regulation of protein synthesis	Graham Burton Bryan Matthews Seminar Room
12.00-14.00	Lunch	
14.00-15.30	Respirometry practical	Andrew Murray Laboratory F7a
15.30-16.00	Break	Physiology Building tea room
16.00 onwards	Clinical study design	Gordon Smith St John's College, Castlereagh Room, Fisher Building
18.15	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)	

Day 5: Thursday 10th July, 2014**Grant-writing workshop and technology practical**

08.15-10.00	Comparative placentation	Peter Wooding Bryan Matthews Seminar Room
10.00-10.30	Break	Physiology Building tea room
10.30-13.00	Fellowship Application Workshop	Facilitated by: Graham Burton: Miguel Constância: Bryan Matthews Seminar Room
13.00-13.45	Lunch	
13.45-17.30	TECHNOLOGY PRACTICAL	Steve Charnock Jones Craik-Marshall Building, Bioinformatics Teaching Facility, Dept. of Genetics
19.00	End of Course dinner	To be advised

Day 6: Friday 11th July, 2014**Animal models and approaches**

09.00-10.00	Mouse genetic models of placental function	Miguel Constância Bryan Matthews Seminar Room
10.00-11.00	Stereology talk Supported by: 	Johnnie Bremholm Andersen Bryan Matthews Seminar Room
11.00-13.00	Stereology practical Supported by: 	Johnnie Bremholm Andersen Graham Burton Histology Classroom
13.00-14.30	Lunch	
14.30-17.00	Rodent versus ovine animal models of materno-fetal interactions	Dino Giussani Bryan Matthews Seminar Room and Barcroft
17.00-17.30	Return to St John's College	
18.15	Dinner: St John's College, The Buttery	
19.00	Placental ultrasound and Doppler waveforms	Christoph Lees St John's College, Arthur Quiller-Couch Room, Divinity School

Day 5: Saturday 12th July, 2014**Explants**

10.00-12.00	Explants	Tereza Cindrova-Davies Burton Lab, H19, Physiology Building
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