King's College London Course on Simultaneous PET-MR: Science and Practice 2019

Maisey and Batchelor rooms, 3rd floor, Lambeth Wing, St Thomas Hospital, London, SE1 7EH

Wednesday 19 June 2019

09.15 - 09.50	**Registration & refreshments**	
09.50 - 10:15	Welcome and introduction	
	MR focus group – Maisey room	**PET focus group – Batchelor room**
10.15- 10:45	MR basic physics	PET basic chemistry
10:45-11:00	MR sequences (incl. Cancer)	PET basic physics / acquisition
11:00-11:15	MR analysis	PET reconstruction
11:15-11:45	**Coffee Break**	
11:45-12:15	MR reconstruction	PET analysis
12:15-13:00	Active learning MRI	Active learning PET
13:00-14:00	**Lunch Break**	
14:00-14:40	Clinical application of MRI: Heart	Clinical application of PET: Cancer
14:40-15:20	Clinical application of MRI: Brain	Clinical application of PET: Heart
15:20-15:50	**Coffee Break**	
15:50-16:30	MR applied to cancer imaging	Clinical application of PET: Brain
16:30-17:00	Workshop: MR scanners- what matters?	Workshop: PET scanners- what matters?
	Distribution of MR safety forms for completion by all	

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Thursday 20 June 2019

	MR focus group	PET focus group
08:30-09:15	Visit PET-MR scanner	Visit PET-CT scanner
09:15-10.00	Visit MR scanner	Visit PET-MR scanner
10:00-10:30	**Coffee Break**	
	Joint Sessions: PET and MR focus groups – Maisey Room	
10:30 - 11:00	PET-MR history, current state-of-the-art instrumentation	
11:00 - 11.15	PET-MR attenuation correction: theory, background and overview	
11:15 – 11:45	PET-MR specific MR sequences	
11:45 - 12:00	Attenuation correction on the mMR (Practical experience at King's)	
12:00-12.30	PET-MR data corrections: motion	
12:30-13:30	**Lunch Break**	
13:30-14:00	PET-MR: GE's perspective	
14:00-14.30	PET-MR: Siemens' perspective	
14:30-15:15	Active learning PET-MR(I): PET-MR experimental design	
15:15-15:45	**Coffee Break**	
15:45-16:30	PET-MR specific reconstruction and processing	
16:30-17:00	Workshop: Neuro reading with experts	

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Friday 21 June 2019

	Joint Sessions: PET and MR focus groups – Maisey Room
09:00-10.00	Full quantification of dynamic PET(-MR) data
10:00-11.00	PET-MR heart
11:00-11:30	**Coffee Break**
11:30-12:30	PET-MR cancer
12:30-13:30	**Lunch Break**
13:30-14:15	Active learning: PET-MR(II): PET-MR tracer and kinetic modelling
14:15-14:45	Workshop: Cancer PET-MR reading with experts
14:45-15:45	PET-MR brain
15:45-16:00	Evaluation/feedback
16:00-16:30	**Course finish**

Key

	PET focus group
	MR focus group
	Joint Session
	Active learning
	Breaks

Organisers reserve the right to make changes to the course programme.
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