



# King's College London Course on Simultaneous PET-MR: Science and Practice 2020

**Wednesday 20 – Friday 22 May 2020**

St Thomas' Hospital, London, SE1 7EH  
(by Waterloo and Westminster)

We offer a three-day course (CPD recognition applied for) for the novel technology of PET-MR. The first day will review either PET or MR theory separately for people with a background in the respective other modality.

We will then cover the new simultaneous PET-MR scanners in terms of technology and applications. There will be lectures, scanner visits, interactive Active Learning sessions, workshops and sessions on reading scans together with clinicians.

Upon completion of this course, participants will be able to demonstrate understanding for PET or MR (whichever the modality they were not familiar with before), the principles of PET-MR, its clinical and scientific uses, with knowledge of opportunities and limitations.

## COURSE DIRECTORS

**Professor Alexander Hammers, MD PhD**

Professor (Honorary Consultant) of Imaging and Neuroscience; Head of the King's College London & Guy's and St Thomas' PET Centre

**Professor Andrew Reader, PhD**

Professor of Imaging Sciences, School of Biomedical Engineering and Imaging Sciences, King's College London

## WHAT DOES THE COURSE COVER?

**First day (participants separated according to background): Either**

- MR basic physics, sequences, reconstruction, analysis; applications for brain, heart and cancer – **or:**
- PET basic chemistry, physics/acquisition, reconstruction, analysis; applications for brain, heart and cancer

**Second and third days: PET-MR**

- Visits to either a PET or MR scanner, and then a PET-MR scanner
- History, current state-of-the-art instrumentation
- PET-MR specific MR sequences
- Practicalities
- Data correction (attenuation, motion)
- PET-MR specific image reconstruction and processing
- Reading of clinical scans with the experts

## FIND OUT MORE

**Administrator Jas Bains**

[teachingadmin-imaging@kcl.ac.uk](mailto:teachingadmin-imaging@kcl.ac.uk)

**Further details, fees  
and online application**

<https://tinyurl.com/kingspetmr2020>

**School of Biomedical Engineering  
& Imaging Sciences**

[www.kcl.ac.uk/imaging](http://www.kcl.ac.uk/imaging)