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## CRUK City of London Centre TME, Imaging and Translation Symposium (Theme 2)

Wednesday 14<sup>th</sup> May 2025

Jeffery Hall, UCL Institute of Education, 20 Bedford Way, London, WC1H 0AL

### 08.45 Registration and refreshments

09.20 Introduction and welcome - Prof. Kairbaan Hodivala-Dilke

#### Session 1 – Imaging

Chair: Prof. Tim Witney, KCL

09.30 **Keynote – Imaging tumour metabolism and its heterogeneity**

Prof. Ferdia Gallagher, CRUK Cambridge Centre

10.05 **Combining imaging, computational modelling and deep learning to create personalised models of disease**

Prof. Simon Walker-Samuel, UCL

10.25 **Targeting ALDH1A1 for the identification and treatment of therapy resistant cancers**

Dr Sofia dos Santos, Postdoctoral Fellow, KCL (PI: Tim Witney)

10.45 **Multimodal reporter gene imaging to assess tumour microenvironment dynamics**

Dr Gilbert Fruhwirth, KCL

### 11.05 Refreshments

#### Session 2 – Tumour Microenvironment

Chair: Dr Oliver Pearce, BCI/QMUL

11.35 **Keynote – Mining morphology: genotype through phenotype and more**

Prof. Louise Jones, BCI/QMUL

12.10 **Mapping the human FRC Network to predict outcome in breast cancer patients**

Dr Kalnisha Naidoo, KCL

12.25 **Vascular endothelial cell plasticity/remodelling and responses to radiotherapy in lung cancer**

Dr Rita Pedrosa, Postdoctoral Fellow, BCI/QMUL (PI: Kairbaan Hodivala-Dilke)

12.45 **Emergency granulopoiesis in cancer progression**

Dr Ilaria Malanchi, Crick

13.05 **Determining how and why the TME changes over time**

Dr Erik Sahai, Crick

### 13.25 Lunch and science speed dating (13.40-14.25)

#### Session 3 – Translation

Chair: Prof. Tony Ng, KCL

14.35 **Solid tumour immunotherapy using NKG2D-based adaptor CAR T cells**

Dr John Maher, KCL

14.55 **Heterogeneity of biomarkers for immunotherapy response prediction and impact on outcome prediction in patients with non-small cell lung cancer**

Dr Crispin Hiley, UCL



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15.15 **Oncology molecular imaging at KCL/GSTT**  
Prof. Gary Cook, KCL

**15.35 Refreshments**

16.05 **Keynote – Cancer imaging with total-body positron emission tomography**  
Prof. Simon Cherry, UC Davis Biomedical Engineering

16.40 **Panel discussion – keynote speakers and organising committee**

17.10 **Closing remarks - Prof. Tim Witney**

**17.15 Reception and refreshments**

This Symposium is partly sponsored by

