Name: Ran Yan

University: King’s College London

Department: Imaging chemistry and biology
Research Interests:

• **Point 1** Novel $^{18}$F-Labeled Bio-makers for Measuring Reactive Oxygen Species *in vivo* with PET

• **Point 2** Dual Labeled Monoclonal Antibody for PET/SPECT Cancer Imaging and Fluorescence Guided Surgery

• **Point 3** Dual Nuclear and Fluorescent Reagents for Cell Tracking
PET Imaging of Doxorubicin Induced Cardiac Toxicity

Heart-to-muscle ratio

Baseline | 1.5 h | 24 h | 7 d | 13 d

1.5 | 2.0 | 2.5 | 3.0 | 3.5

Rat 1 | Rat 2

Heart-to-brain ratio

Baseline | 1.5 h | 24 h | 7 d | 13 d

6 | 8 | 10 | 12 | 14

Rat 1 | Rat 2

Time post DOX treatment
Fluorescent Images of SW1222 Tumour Slide Stained with TSTP01 conjugated A5B7 Antibody

• Nuclei were counterstained with Hoechst 33342
• Scale bar is 400 µm
• 5 µg/ml labelled A5B7
Dual Nuclear and Fluorescent Reagents for Cell Tracking

A. 5T33 cells stained with **EYTP01** (1 uM);
B. the nuclei were counterstained with Hoechst 33342;
C. Bright field image of the cells;
D. Merged images of (A)-(C). Scale bar = 100 μm