

SUPPLEMENTAL DATA

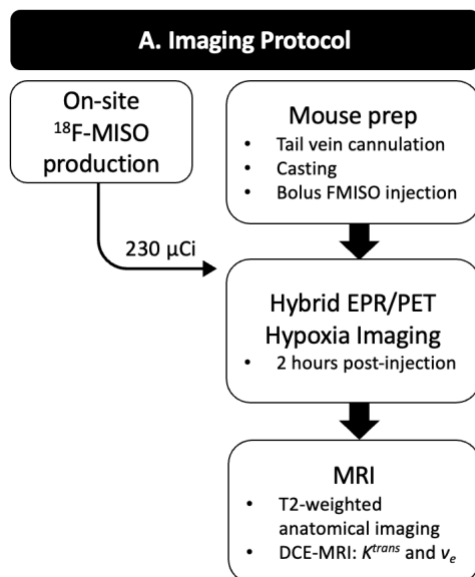


Figure S1: Schematic of imaging protocol for each subject, where two mice were staggered for each experimental imaging day.

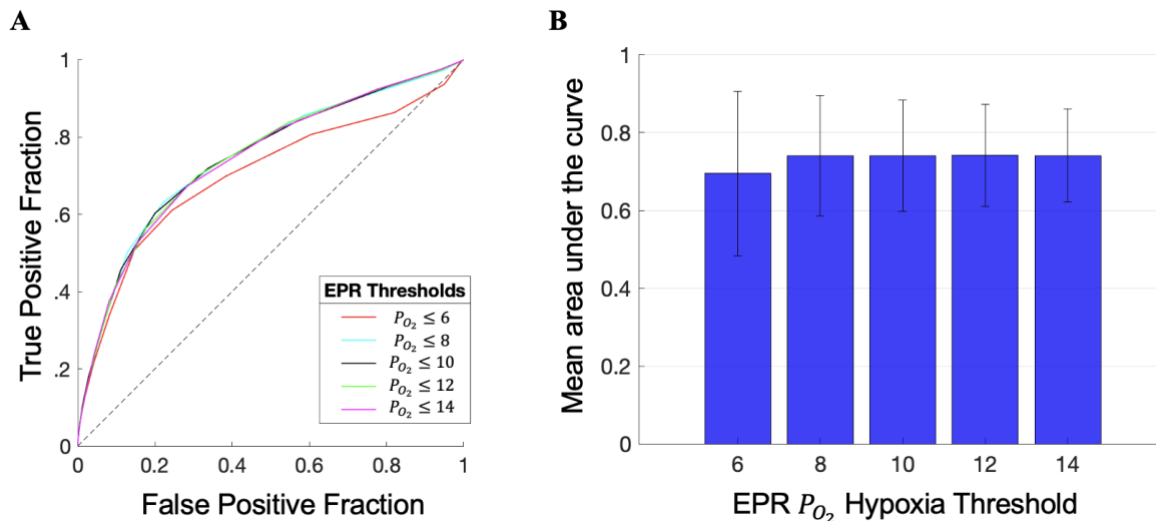


Figure S2: (A) ROC curves of all subjects' values of TPF and FPF for FMISO PET thresholds greater than 0 to 5 times the mean SUV, using EPRI pO_2 thresholds less than 6 (red line) to 14 (pink line) mmHg. (B) Mean AUC values for each EPRI pO_2 threshold with error bars showing standard deviation. There was no significant difference between using a hypoxia threshold between 8 and 14 mmHg.

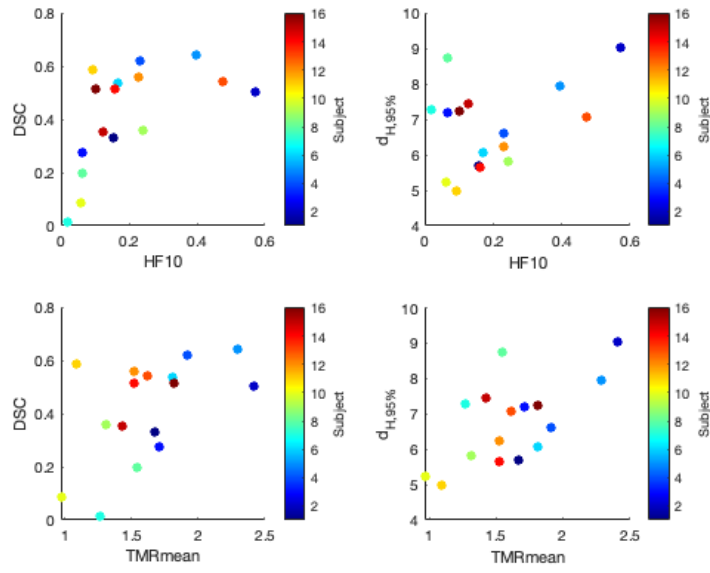


Figure S3: Dependence of tumor's hypoxic fraction on overlap between FMISO PET and EPRI pO_2 hypoxic subregions.