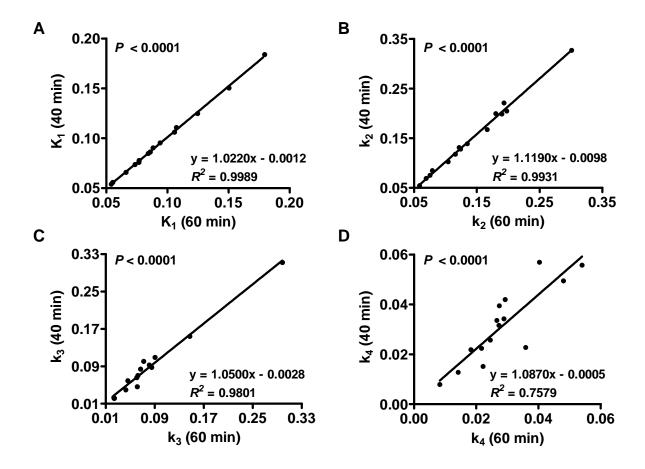
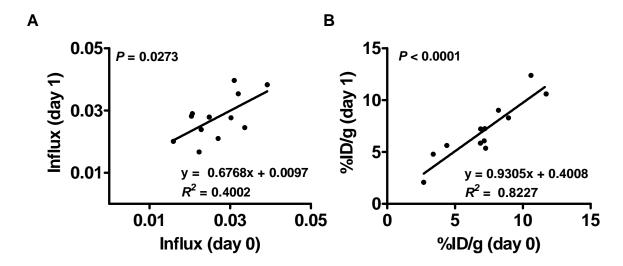


Supplemental Figure 1. (A) Representative ¹⁸F-Alfatide II and ¹⁸F-FDG dual tracer dynamic 2D projected image serials with U87MG tumor bearing mice. The ROI was drawn over abdominal aorta and tumor region to extract the input function and tumor time activity curve (TAC). (B) Representative dual tracer input function and the separated input functions for ¹⁸F-Alfatide and ¹⁸F-FDG. The separated input function was fitted by a tri-exponential function. (C) Representative dual tracer tumor TAC and the separated tumor TACs for ¹⁸F-Alfatide II and ¹⁸F-FDG. The separated tumor TACs were fitted with reversible three-compartment modeling for ¹⁸F-Alfatide and irreversible three-compartment modeling for ¹⁸F-FDG.



Supplemental Figure 2. The correlation between dynamic parameters calculated from 60min and 40min 18 F-Alfatide II TACs: A, K_1 ; B, k_2 ; C, k_3 ; D, k_4 . The linear regression equation, Pearson's correlation coefficient R^2 and the P value of linear regression F test are shown. $R^2 > 0.98$ for K_1 - k_3 and $R^2 = 0.76$ for k_4 indicated very well correlation. All P values were less than 0.0001, presenting the significant linearity for all the parameters linear regression.



Supplemental Figure 3. The correlation of (A) 18 F-FDG tumor influx rate and (B) tumor uptake between day 0 and day 1 in 18 F-FDG single tracer imaging. The linear regression equation, Pearson's correlation coefficient R² and the P value of linear regression F test are shown. Significant linearity between day 0 and day 1 parameters were found for both tumor influx and tumor uptake (P < 0.05).