A

Myocardium

¹¹C-Palmitate

MFAU

,,

(plasma

fII · · ·

MFAE

cfree

,. MFAO

· · · (oxidized

cesterified
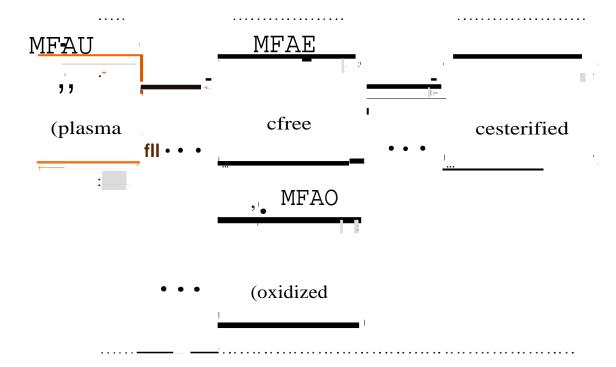
B

$$MFAE = C_{NEFA} \frac{k_{p1}k_{12}}{k_{1p} + k_{12} + k_{13}}$$

$$MFAO = C_{NEFA} \frac{k_{p1}k_{13}}{k_{1p} + k_{12} + k_{13}}$$

$$MFAU = MFAE + MFAO$$

A: The three-tissue compartmental model proposed and validated by Bergmann et. al. MFAU = myocardial fatty acid uptake, MFAO, myocardial fatty acid oxidation, MFAE = myocardial fatty acid esterification. Bold arrows denote micro rate constants used in the equations depicted in panel B.