Molecular Imaging & Biology

Metabolism of Radiolabeled Methionine in Hepatocellular Carcinoma

Yu Kuang^{1, 3}, Fangjing Wang^{2*}, David J. Corn^{1*}, Haibin Tian¹, Zhenghong Lee^{1,2,ξ}

- Dept. of Radiology, University Hospitals Case Medical Center, Cleveland, OH 44106
- Dept. of Biomedical Engineering, Case Western Reserve University, Cleveland, OH 44106
- Medical Physics Program, University of Nevada Las Vegas, Las Vegas, NV, 89154

*These authors have equally contributed to this study.

ξ Corresponding Author's Email: <u>zhenghong.lee@case.edu</u>





Supplemental Figure 1. Radiolabeled methionine metabolism. (A) L-[methyl-¹¹C]-methionine. (B) L-[1-¹¹C]-methionine.



Supplemental Figure 2. The radiolabeled metabolites derived from methionine. Met: methionine, SAM: S-adenosylmethionine, SAH: S-adenosylhomocysteine, PMME: phosphatidylmonomethylethanolamine, PDME: phosphatidyldimethylehtanolamine, PC: phosphatidylcholine.



Supplemental Figure 3. A representative radio-TLC chromatogram from the water soluble phase of WCH17 cells after pulsed with L-[methyl-³H]-Met 5 min.