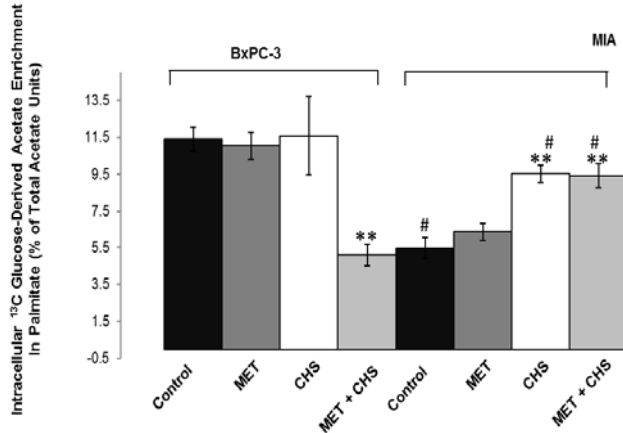


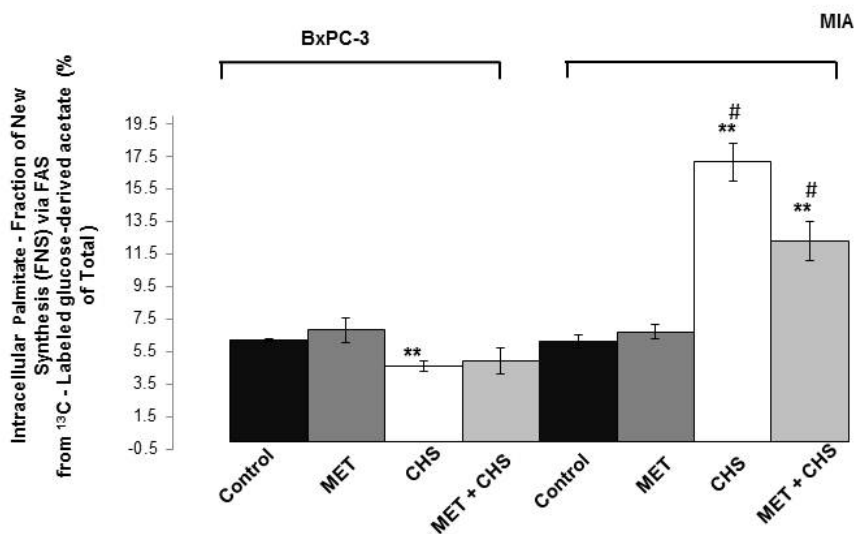
Supplemental Material

Supplemental Figure 1 - Intracellular tracer-derived acetate enrichment for fatty acid synthesis of BxPC-3 and MIA PaCa-2 pancreatic adenocarcinoma cells in response to 100 μ M metformin after 24 h of culture with and without CHS pretreatment for two weeks. BxPC-3 cells treated with CHS and metformin show inhibition of acetate enrichment for palmitate (the only product of fatty acid synthase) synthesis indicating inhibition of FAS. MIA PaCa-2 cells treated with CHS only and a combination of CHS and metformin show increased acetate enrichment for *de novo* palmitate synthesis as a consequence of fatty acid futile cycling. All data are means \pm SD (n = 3 per group). **, $P < 0.01$, # $P < 0.05$ between cell lines. See Fig. 2 for x-axis labeling



Supplemental Figure. 1

Supplemental Figure 2 - Intracellular palmitate turnover via direct synthesis from tracer-derived acetate of BxPC-3 and MIA PaCa-2 pancreatic adenocarcinoma cells in response to 100 μ M metformin after 24 h of culture with and without CHS pretreatment for two weeks. No significant difference is observed between the two cell lines in terms of the rate of baseline glucose-derived *de novo* fatty acid synthesis. MIA PaCa-2 cells show a significant increase in the rate of *de novo* fatty acid synthesis from the glucose tracer after CHS pre-treatment indicating a shift from cholesterol synthesis to fatty acid metabolism due to CHS supplementation. MET treatment significantly antagonizes this CHS effect to decrease fatty acid synthesis rate. **, $P < 0.01$, # $P < 0.05$ between cell lines. See Fig. 2 for x-axis labeling



Supplemental Figure. 2