Additional Figure 6 - Blood from trauma/hemorrhagic shock rats (laparotomy with bowel crush, with hemorrhagic shock to MAP<30) was withdrawn before hemorrhagic shock (baseline – B). After waiting for 15 minutes (W15), injection of labeled 13C-glucose was performed and blood was then collected at 5, 10, 15, and 20 minutes from iLC. Metabolites of glycolysis and Krebs cycles were monitored, as they have been previously shown to increase in plasma after trauma/hemorrhagic shock [14]. In left, the total levels of the metabolite (integrated peak areas – arbitrary units) are indicated through stacked bar graphs, including the unlabeled parent (blue – M+0) and heavy isotopologues (either M+2, M+3, M+4 or M+6 depending on the expected labeling pattern from catabolism of 13C-glucose). In the right hand panels, only heavy isotopologues (red, yellow, orange, green) are shown. As soon as 5 minutes after iLC, hemorrhagic shock induced accumulation of lactate and unlabeled glucose (indicative of ongoing gluconeogenesis) and late Krebs cycle intermediates (succinate, fumarate, malate), increased levels of glutamate and totally unlabeled urate, polyamines (spermidine), glutathione (either reduced – GSH and oxidized – GSSG), mannitol and (minimally labeled) citramalate. M+3 labeling in malate and succinate is suggestive of malate generation from oxaloacetate obtained via pyruvate carboxylase activity and backwards fluxing of complex I and II to generate malate and succinate in the absence of oxygen as a final electron acceptor (following HS – top right corner). Extended version of in text Figure 7.