

Table S1. Identified metabolites in serum, tumor and BAT that were found affected by radiotherapy. Tumor and BAT samples were collected by microdialysis.

Metabolite	Corr. Serum	Corr.Tumor	Corr.BAT
Essential amino acids			
Lysine	↓		
Methionine	↓*		
Phenylalanine	↓		
Threonine	↓*		
Valine	↓		
Amino acids			
Alanine		↑*	
Aminomalonic acid	↓		
Arginine	↓*		
Asparagine	↓*		
Cystathionine			↑*
Cysteine	↓		
Glutamate	↓	↑	↑
Glutamine	↓*	↑	↑*
Glycine	↓		
Ornithine	↓*	↓*	↓
Pyroglutamic acid			
Tryptophan	↓		
Tyrosine	↓*	↓	
Alcohols			
Arabitol			↑*
Ethanolamine		↓	↑*
Glycerol-3-phosphate	↓*		
myo-Inositol	↓	↑*	
Ribitol			
Fatty Acids			
Arachidonic acid	↓		
Butanoic acid	↓*		
Linoleic acid	↓*		
Octadecanoic acid	↓	↑*	↓
Oleic/Elaidic acid	↓*		
Saccharides			
Arabinose		↓	↑*
Fructose			↑
Galactose		↓	
Glucose			↑
Glucopyranose (glucose?)			↑
Lactulose			↑
beta-D-Methylglucopyranoside	↓*		
Nigerose		↑*	
Palatinose			↑
Trehalose			↑
Xylulose		↑*	
Citric acid cycle			
Citric acid	↑		↑*
Succinic acid			↓
Misc			
Chlorobenzoic acid		↑	↑
Creatinine	↓*		↑
Dehydroascorbic acid dimer	↑		
Glutaric acid		↑	
Glyceric acid	↓*		↑
Glycerol			↑*
Itaconic acid		↑	↑*
Pentonic acid			↑*
Phosphoric acid			
S-Methyl-L-Cysteine		↓	
Urea	↓	↓	↑

Corr. Serum, Corr.Tumor and Corr.BAT represent the correlation to treatment. ↑ denotes increased levels and ↓ denotes decreased levels following treatment. * = p < 0.05 calculated with a Student's t-test.