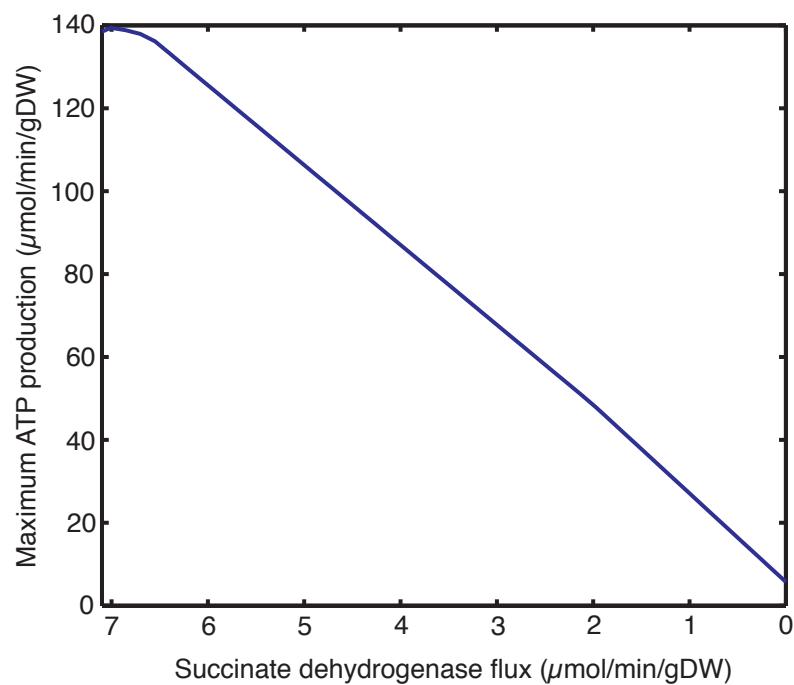
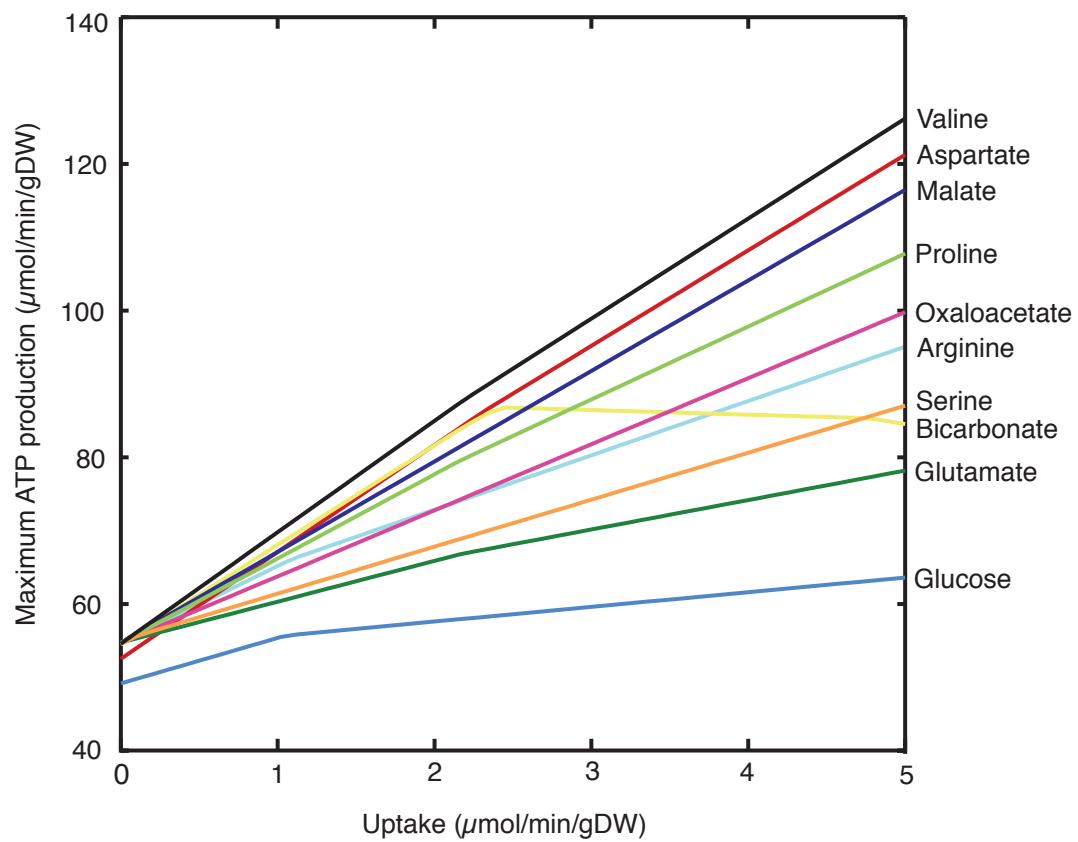


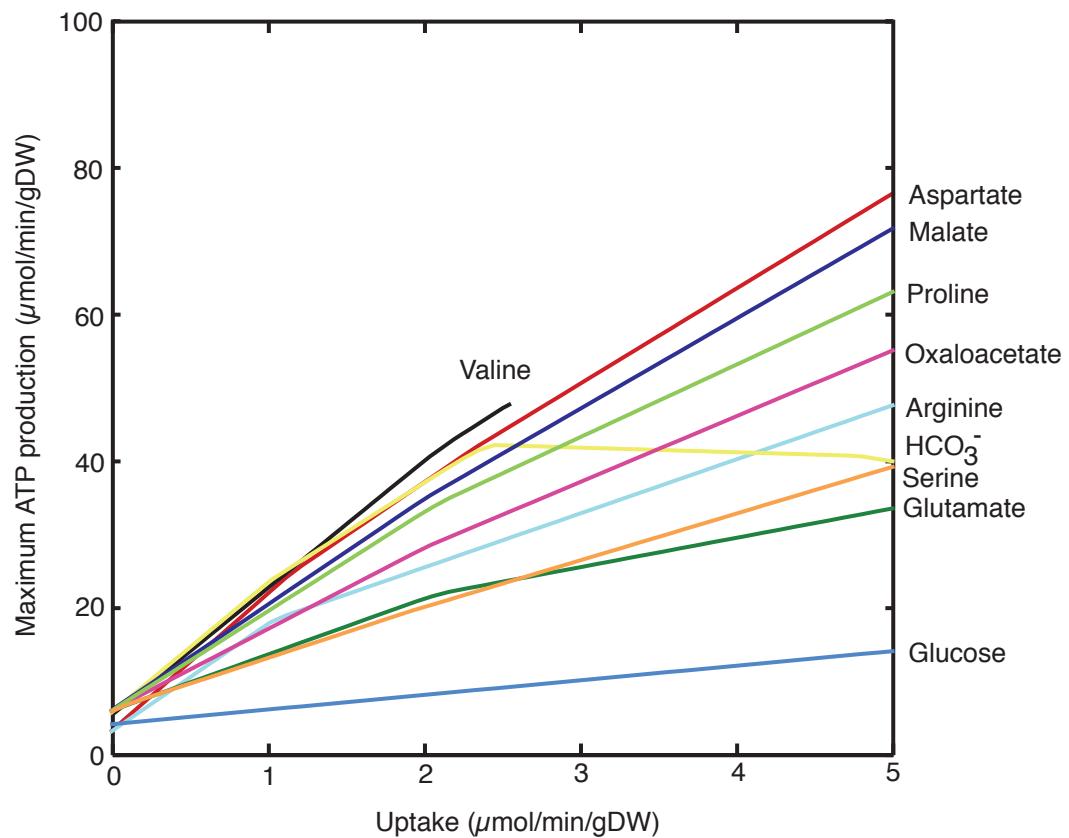
Supplementary Figures



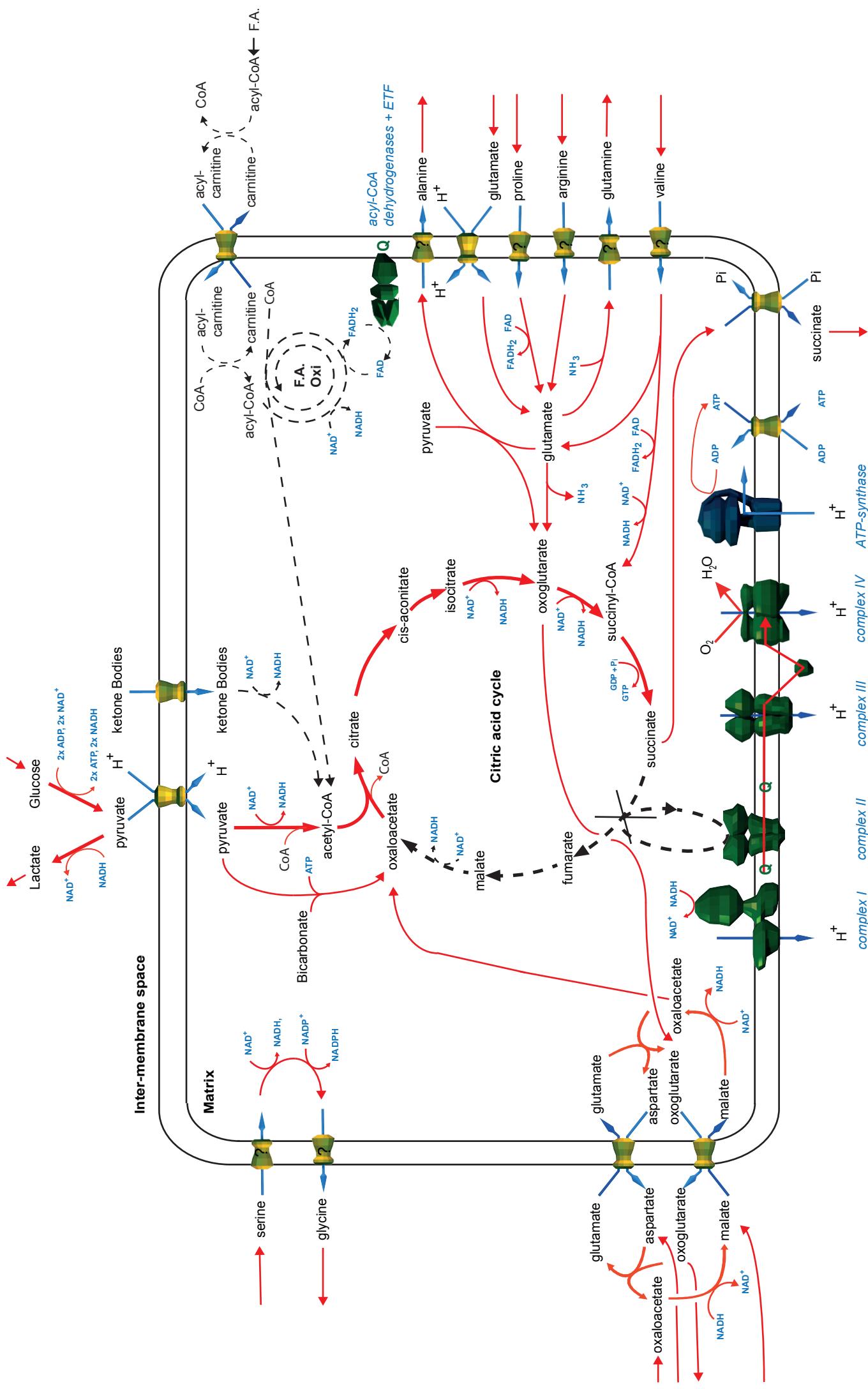
Supplementary Figure S1. Effect of varying succinate dehydrogenase flux on maximum ATP production.



Supplementary Figure S2. Effects of metabolites on maximum ATP production while succinate dehydrogenase deficiency flux is at 33% of its flux under normal conditions.



Supplementary Figure S3. Effects of metabolites on maximum ATP production while succinate dehydrogenase deficiency flux is at 0% of its flux under normal conditions.



Supplementary Figure S4. The active pathways (red) that contribute to ATP production during succinate dehydrogenase deficiency. Black dot lines show pathways that are inactive.