

Table S12 Flux Control Coefficients, $D = 0.1 \text{ h}^{-1}$, Non-starved.

The control of the flux J through an enzyme j (rows) exerted by an enzyme i (columns). The control coefficient

$$C_i^j = \frac{dJ_j}{dV_{\max,i}} \cdot \frac{V_{\max,i}}{J_j} = \frac{d \ln J_j}{d \ln V_{\max,i}} \approx \frac{\ln J_{j,+h} - \ln J_{j,0}}{\ln V_{\max,i,+h} - \ln V_{\max,i,0}}$$

was approximated by increasing the $V_{\max}$ of the

enzyme of interest by h , which was 1%. This was done for the model versions corresponding to figure 2 in the main text.

[illegible]