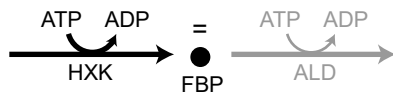


**A**

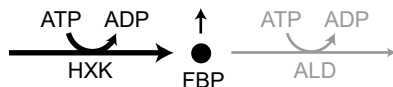
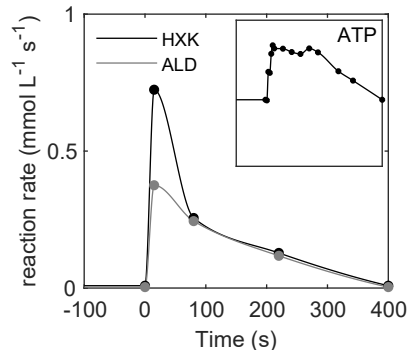
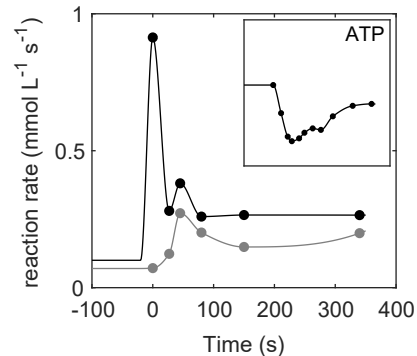
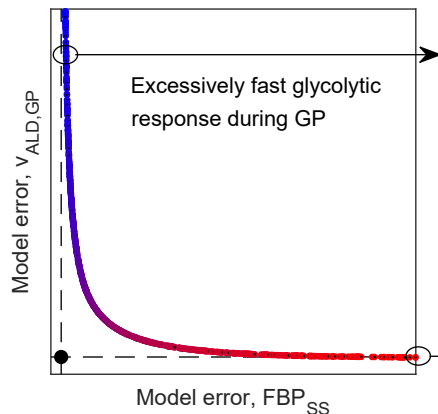
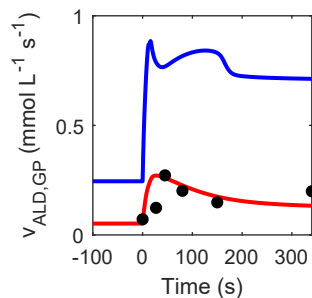
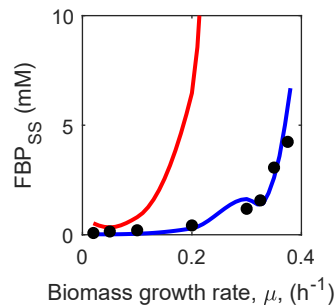
Minor Perturbation:

$$V_{\text{HXK}} = V_{\text{ALD}}, \text{ FBP balanced}$$



Major Perturbation:

$$V_{\text{HXK}} > V_{\text{ALD}}, \text{ FBP accumulation}$$

**B****C****D****E****F**

Slowed response via changes in K<sub>m</sub>  
lead to high SS concentrations