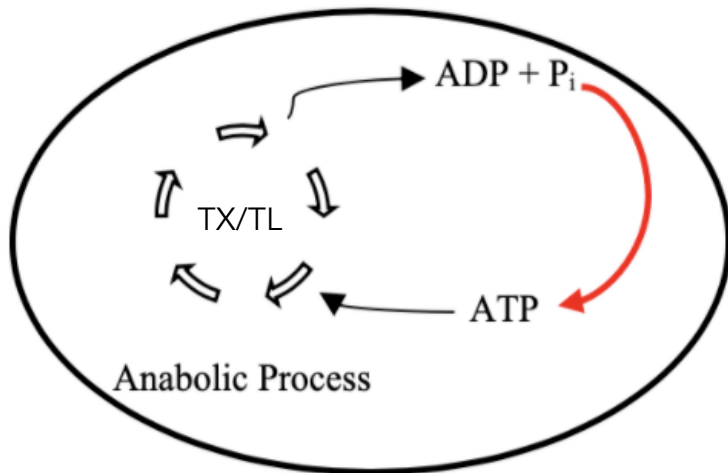
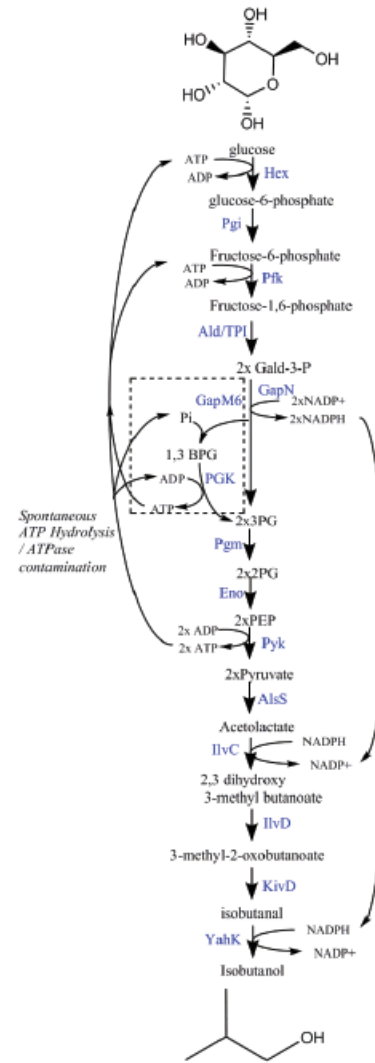


# Goal: ATP Life Extension in Synthetic Cells



## Proposal 1: Regeneration by Rheostat Machinery



## Proposal 2: Regeneration by ATP Synthase

