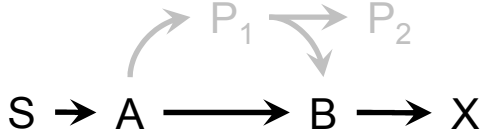
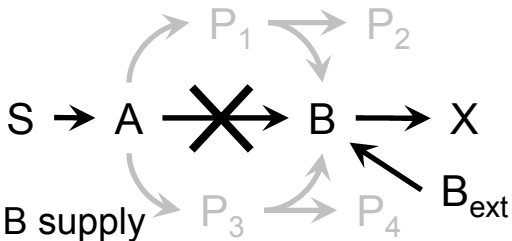


1. Wild Type



→ substrate S (glycerol)
into biomass X via B (pyruvate)

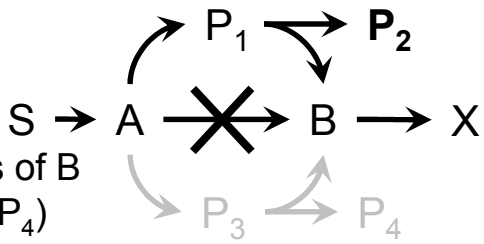
2. Starting Mutant



→ B auxotrophic

→ selection by limiting B supply

3. Evolved Mutant



→ alternative synthesis of B

→ production of P₂ (or P₄)