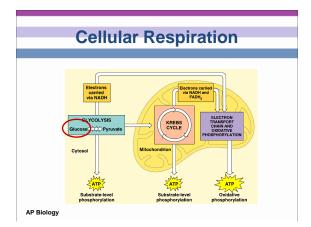
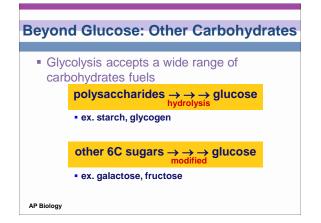
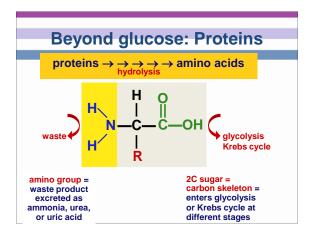
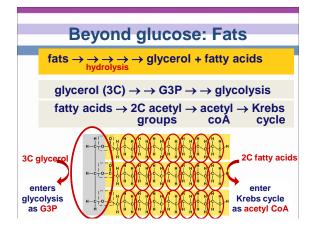
S.	Cellular Respiration	
	Other Metabolites & Control of Respiration	
AP-Biology		



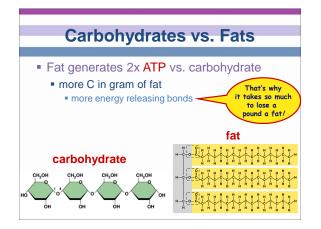




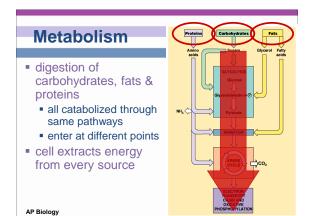


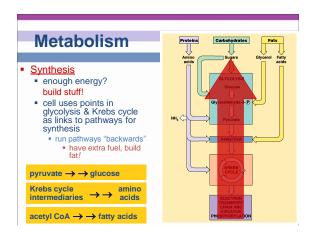


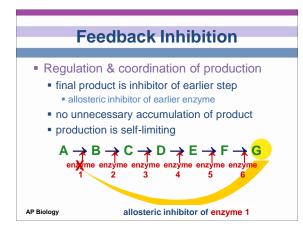


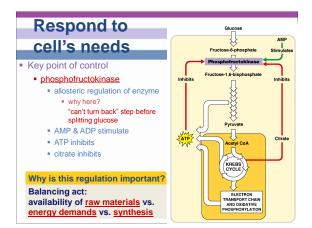


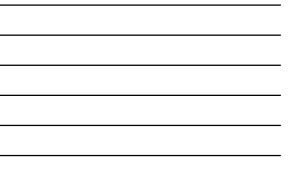












## A Metabolic economy

- Basic principles of supply & demand regulate metabolic economy
  - balance the supply of raw materials with the products produced
  - these molecules become feedback regulators
    - they control enzymes at strategic points in
    - glycolysis & Krebs cycle
    - Ievels of AMP, ADP, ATP
    - regulation by final products & raw materials
    - levels of intermediates compounds in pathways
    - regulation of earlier steps in pathways
    - Ievels of other biomolecules in body
    - regulates rate of siphoning off to synthesis pathways

## It's a Balancing Act

- Balancing synthesis with availability of both energy & raw materials is essential for survival!
  - do it well & you survive longer
  - you survive longer & you have more offspring
  - you have more offspring & you get to "take over the world"

AP Biol	ogy
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AP Biology