

METABOLISM, CELL RESPIRATION & PHOTOSYNTHESIS

END-PRODUCT INHIBITION

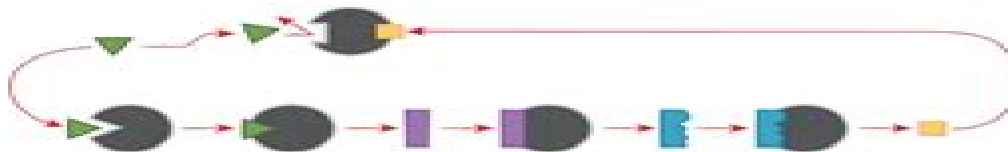
Key Definitions

End-product inhibition: a type of inhibition in which the product of the last reaction in a metabolic pathway inhibits the enzyme that catalyses the first reaction.
Allosteric enzyme: enzymes with two non-overlapping binding sites: the active site and allosteric site. In end-product inhibition, the allosteric site is the binding site for the end product.

Threonine is converted to isoleucine.



Isoleucine is the end product of the pathway and inhibits the enzyme threonine deaminase.



- When the end product accumulates in a metabolic pathway, it can act as an inhibitor which inhibits the first enzyme of the pathway.
- The end-product inhibitor binds to the allosteric site of the enzyme, changing the conformation of the active site and preventing substrates from binding.
- The level/concentration of products is lowered.
- This is an example of negative feedback mechanism - increased levels of products decreases the rate of its production.

8.2 CELL RESPIRATION

OXIDATION & REDUCTION

Key Definitions

Electron carrier: a substance that can accept or donate electrons.
 ex) FAD (flavin adenine dinucleotide), NAD⁺ (nicotinamide adenine dinucleotide)

Oxidation	Reduction
Addition of oxygen	Removal of oxygen
Removal of a hydrogen atom (H)	Addition of a hydrogen atom (H)
Loss of electrons (e ⁻)	Gain of electrons (e ⁻)



PHOSPHORYLATION

Key Definitions

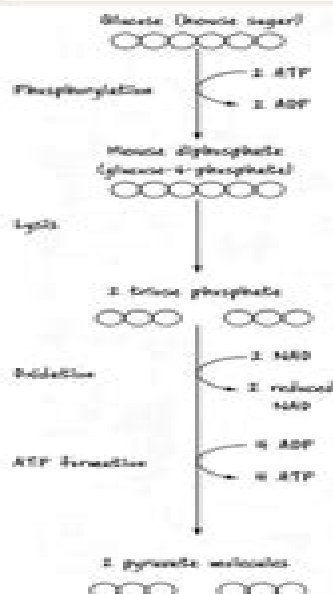
Phosphorylation: Addition of a phosphate (PO₄³⁻) molecule to an organic molecule.

- Phosphorylation makes the organic molecule less stable and thus more likely to react.
- Phosphate molecule is usually transferred from ATP.
 $\text{ATP} \longrightarrow \text{ADP} + \text{phosphate}$

GLYCOLYSIS

Key Definitions

Glycolysis: a process by which one molecule of glucose is converted into 2 molecules of pyruvate. It occurs in the cytoplasm of cells.



1. Glucose is phosphorylated to form hexose diphosphate. This process requires 2 ATPs.

2. Hexose diphosphate is split into 2 triose phosphate molecules.

3. Triose phosphate molecules are oxidized by removing 2 hydrogen atoms. NAD⁺ accepts hydrogen atoms and is reduced (forms NADH + H⁺).

4. Energy from oxidation forms 4 ATP molecules. Final product, pyruvate is formed.

2 ATPs (net gain), 2 NADHs and 2 pyruvate molecules are formed.

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