

Cellular Respiration

• Quick Summary of Glycolysis

- starts with glucose
- 10 different reactions

* energy investment phase

- * 2 ATP are used to make more ATP
- * End of the phase we get a molecule of G3P
- * This is fed into the

* energy payoff phase

- * 2 NAD^+ are reduced to NADH
- * 4 ATP are generated (net 2 ATP gain)
- * end up with pyruvate

produced by
substrate level
phosphorylation

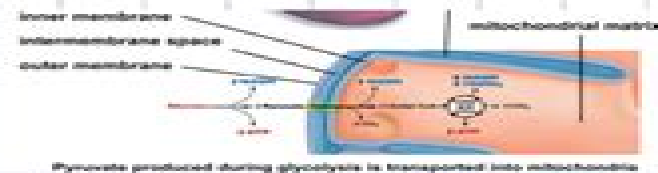
- reactions occur in the cytoplasm
- one 6-carbon glucose converted to two 3-carbon pyruvate
- energy that is released nets 2 ATP and 2 NADH

• Cellular Respiration

- The remaining reactions occur in the mitochondria

— Mitochondria

- * 2 membranes



Campbell S Study Guide Chpt Cell Respiration

Nina Caris, Harold T. Underwood



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