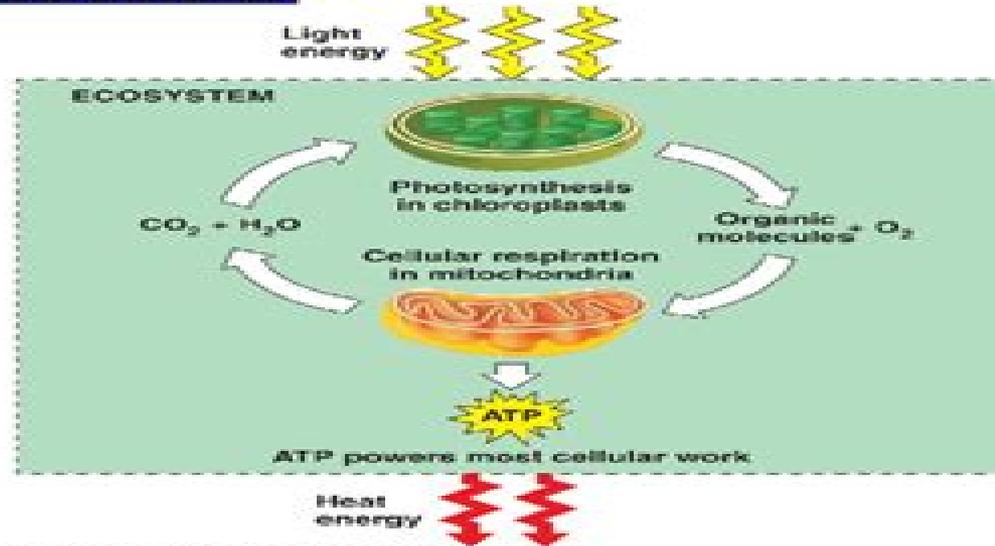


AP Biology: CH 7

Cellular Respiration and Fermentation

Cellular Resp. Big Picture (Freeman)



1. The three key pathways of cellular respiration are:
 - a. Glycolysis
 - b. The citric acid cycle (Krebs Cycle)
 - c. Oxidative phosphorylation at the ETC
2. Catabolic Pathways are pathways that break down organic molecules, releasing stored energy.
3. Organic molecules possess potential energy as a result of the arrangement of electrons in the bonds between their atoms.
4. Fermentation is the partial breakdown of sugars without O₂ (anaerobic)
5. Aerobic respiration is the most efficient catabolic pathway. This occurs in the presence of O₂ which makes this an aerobic process.

Pogil Answer Key Cellular Respiration Glycolysis

Jimmy Graves



Pogil Answer Key Cellular Respiration Glycolysis:

Glycolysis Paul N. Lithaw, 2009 Glycolysis literally means splitting sugars In glycolysis glucose a six carbon sugar is split into two molecules of a three carbon sugar Glycolysis yields two molecules of ATP free energy containing molecule two molecules of pyruvic acid and two high energy electron carrying molecules of NADH Glycolysis can occur with or without oxygen In the presence of oxygen glycolysis is the first stage of cellular respiration Without oxygen glycolysis allows cells to make small amounts of ATP This process is called fermentation This book presents the latest research in the field

Glycolysis 247 Success Secrets - 247 Most Asked Questions on Glycolysis - What You Need to Know Jimmy Graves, 2014-10-15 Feel The Power Of Glycolysis There has never been a Glycolysis Guide like this It contains 247 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Glycolysis A quick look inside of some of the subjects covered Enzymes Biological function Glucose Energy source Fermentation Lactic acid fermentation Pyruvate kinase Deficiency Triosephosphate isomerase Mechanism Carbohydrate metabolism Energy Production Glycogenolysis Function Bioethanol Biofuel gasoline Isotopic labeling Stable isotope labeling Lipolysis Chemiosmosis In mitochondria Glycolysis Citric acid cycle Regulation Microbial metabolism Fermentation Beta cell Control of Insulin Secretion Aldose reductase Function PKM2 Bi functional role within tumors Metabolic Proteins Fatty acid synthesis Fermentation Aerobic respiration Fructolysis Fructolysis and glycolysis are independent pathways PFK2 Regulation Bipedal Respiration Bisphosphoglycerate mutase Function Dehydrogenase Examples List of biology topics Cellular and molecular biology Uridine Uridine in the Glycolysis Pathway Lactate dehydrogenase Reactions Muscle Microbial metabolism Heterotrophic microbial metabolism Muscle mass Types of tissue Cell biologist Other cellular processes Pyruvate kinase Reaction Metabolism Energy from organic compounds Polyethylene terephthalate Partial glycolysis Fructose bisphosphate aldolase In gluconeogenesis and glycolysis Citric acid cycle Products Jakub Karol Parnas Achievements and much more

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