

Answers Pogil Activity: Glycolysis and the Krebs Cycle

1. Refer to Model 1.
 - a. What molecule from food is the primary reactant for glycolysis?
 - i. Glucose
 - b. How many carbon atoms are in that reactant molecule?
 - i. Six carbon atoms
2. The carbon atoms from glucose end up in pyruvate molecules as a product of glycolysis.
 - a. How many carbon atoms are in a pyruvate molecule?
 - i. Three carbon atoms
 - b. How many pyruvate molecules are made from each glucose molecule?
 - i. Two pyruvate molecules are made from each glucose molecule.
3. Does the process of glycolysis require an input of energy? Provide specific evidence from Model 1 to support your answer.
 - a. Glycolysis needs two ATP molecules to convert glucose.
4. Refer to Model 1. Propose an explanation for why the author of this activity put PGAL at the highest point in the Model 1 diagram.

The PGAL molecule has a higher potential energy than the glucose molecule. The energy from the ATP energy converting into ADP increase the potential
5. Does pyruvate have more or less potential energy than glucose? Provide specific evidence from Model 1 to support your answer.
 - a. Pyruvate has less potential energy than glucose, in the model we see an arrow that indicates the amount of potential energy in the step of the process. In the model, pyruvate is indicated to have a lower potential energy level.
6. What is the net production of ATP by glycolysis?
 - a. The net gain of ATP in glycolysis is two.
7. What molecule acts as an electron acceptor in glycolysis?
 - a. NADH

Pogil Activity Answers Glycolysis

Carmel Mothersill



Pogil Activity Answers Glycolysis:

The Enzymes of Glycolysis David Phillips,1981 *The Enzymes of 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 **The Enzymes of Glycolysis** David Phillips,1981 *The Enzymes of Glycolysis* ,1981

Regulation of Glycolysis in the Early Development of Fish Embryos L. S. Mil'man,I[rovi]s[ki],1973 **A Robust Non-Oxidative Glycolysis in a Model Organism for Efficient Biochemical Production** Alec Jaeger,2020 Global climate change caused by the emission of greenhouse gas GHG to the atmosphere is one of the key challenges facing humanity in the coming decades Carbon dioxide CO₂ is one of the leading sources of overall GHG emission and it is released to the environment in large quantities by the burning of petroleum or other fossil fuels as liquid fuel Sustainable alternatives to fossil fuels can be produced from biomass using microbial whole cell catalysis Since biomass fixes atmospheric CO₂ burning these biomass derived fuels as energy sources reduces the net emission of carbon to

the environment. However, current biofuel processes often struggle to compete economically with fossil fuels. A key contributing factor to this problem is the inefficient utilization of feedstock carbon in biomass. Since microbes use conserved metabolic pathways to catabolize carbohydrate feedstocks, inherent limitations in these pathways often cannot be avoided. Moreover, these pathways evolved in nature to prioritize growth rather than production considerations. A notable example of this is the carbon loss when forming two-carbon (C₂) metabolites such as acetyl CoA. C₂ metabolites are precursors to many industrial products, including important biofuels such as ethanol and butanol. Essentially, all organisms degrade sugar to pyruvate, a three-carbon (C₃) metabolite, using the conserved glycolytic pathways. To produce C₂, pyruvate is decarboxylated to produce one C₂ equivalent and one CO₂, thus wasting a third of input carbon and effectively limiting the maximum carbon yield of C₂-derived products to 67%. This carbon loss imposes a significant economic constraint on biorefining. While no natural pathway can bypass pyruvate formation, a synthetic non-oxidative glycolysis (NOG) was recently developed that directly degrades sugar phosphates into stoichiometric amounts of C₂ equivalents. Here, we first constructed a strain of *E. coli*, a model microbial organism, which uses NOG for sugar catabolism rather than glycolysis. This was achieved by a combination of rational design and evolution. By coupling the pathway to growth, we were able to use evolution to develop a robust pathway and fine-tune the relative activity of pathway enzymes. The resulting strain grew at a comparable rate to wild-type *E. coli* and could produce acetate, a C₂-derived product, at a yield exceeding the theoretical maximum using glycolysis. Since it uses NOG for sugar catabolism, this strain has fundamentally rewired metabolism as it generates C₂ metabolites before C₃ metabolites. C₃ metabolites are generated from C₂ using carbon scavenging pathways. Thus, we believe this strain has considerable potential as a host for the production of C₂-derived products. Following evolution of the NOG strain, the chromosome was sequenced to elucidate mutations acquired through evolution. The effect of several of these mutations was also investigated here. We found that a transposon insertion inactivating PtsG, a component of the glucose-specific phosphotransferase system, was essential to the NOG strain's ability to grow in minimal media. When PtsG is deleted, the catabolic activator protein CAP is able to upregulate many genes, which is likely necessary for the NOG-dependent growth phenotype. Another transposon insertion in the alternative sigma factor *rpoS* contributed to growth in the NOG strain, likely through the upregulation of enzymes that benefit NOG growth, such as the TCA cycle. We also evaluated mutations where the cell had fine-tuned the activity of pathway enzymes. A mutation knocking down activity in the key NOG enzyme phosphoketolase (Pck) was found to be beneficial for growth by potentially alleviating a kinetic trap in the NOG cycle. However, fixing a promoter truncation that had knocked down activity of Pck, a key gluconeogenic enzyme, actually improved growth rate in glucose media by about 15%. Since the mutation occurred before NOG growth was developed, it was reasoned that changing intracellular conditions after the adaptation to NOG-based growth caused an increase in Pck activity to be beneficial. We also explored using the NOG strain for the production of ethanol, a C₂-derived liquid fuel. Since ethanol is more reduced than acetate, it cannot be generated

without the supply of external reducing power using NOG Using formate as the electron donor we were able to improve ethanol yield from 0.26 to 0.82 through the addition of formate in anaerobic production Further improvements in ethanol yield were limited by the cells ability to produce ATP to maintain sugar phosphorylation Since the cell is dependent on acetate production to make ATP anaerobically ethanol production will need to be integrated with respiration which can convert excess reducing power into ATP using oxygen as an electron acceptor Finally we offer strategies for establishing robust high yield ethanol production using the NOG strain in microaerobic conditions

Coordinated Regulation of Glycolysis and the Folate One-carbon Cycle Brian Prescott Fiske, 2015 Rapid cell proliferation is characteristic of many biological systems including cancer normal development and immune responses At a basic level proliferation requires that a cell synthesize a new copy of itself with cell metabolism supplying the building blocks for new proteins nucleic acids and lipids Cancer and other proliferating cell types exhibit aerobic glycolysis characterized by elevated glucose uptake and conversion of glucose to lactate even in the presence of oxygen Aerobic glycolysis is associated with anabolic reactions to generate new cellular material but how aerobic glycolysis supports proliferative metabolism is not well understood Pyruvate kinase PK catalyzes the last step in glycolysis and while there is no evidence that PK activity is limiting for glycolysis all proliferating cells express the PKM2 isoform of PK that is unique in having regulated activity which is decreased in the context of cellular proliferation The simultaneous requirement for increased aerobic glycolysis and expression of the PKM2 isoform that is inhibited by growth signaling is a paradox and it is unclear how elevated glucose metabolism enables rapid proliferation yet also requires decreased PKM2 activity This thesis will explore two potential explanations for this paradox The first hypothesizes the existence of an undiscovered enzyme that catalyzes a PK like reaction resolving the paradox by aligning increased flux through glycolysis with increased or unchanged activity of the PK step The second hypothesis explores how PKM2 expression and PK inhibition supports proliferation by increasing serine synthesis from upstream glycolytic intermediates This diverts one carbon units into the folate pool to generate nucleotides via phosphoserine inhibition of SHMT1 mediated serine synthesis and one carbon wasting in some cancer cells We will also consider the reciprocal question of how folate one carbon pool status in turn may regulate both PKM2 activity and glycolytic serine biosynthesis The ability of PKM2 regulation to control folate metabolism for nucleotide synthesis explains for the first time at a mechanistic level one way that aerobic glycolysis promotes proliferative metabolism

Endogenous H₂S Stimulates Aerobic Glycolysis by Inhibiting the Activity of PKM2, 2023 The Role of Aerobic Glycolysis in the Resting Human Brain

Sanjeev Neil Vaishnavi, 2010 The human brain accounts for 2% of total body weight though it consumes 20% of the body's energy supply Most of this energy is provided by the complete oxidation of glucose to carbon dioxide and water though some fraction of glucose undergoes aerobic glycolysis without concomitant oxidative phosphorylation Elevation in neuronal activity increases aerobic glycolysis due to the disproportionate increase in blood flow and glucose utilization greater than oxygen

consumption Since aerobic glycolysis produces significantly less energy than complete oxidation of glucose its role in cellular activities has been overlooked though its presence in the resting brain has been known for several decades In this thesis we investigate three aspects of resting aerobic glycolysis using positron emission tomography First we characterize the regional distribution of aerobic glycolysis in the awake eyes closed human brain We show that brain regions with high levels of functional activity in the resting state including the default network and prefrontal cortex have elevated aerobic glycolysis In addition we show that aerobic glycolysis is modulated by prior task performance Performance of a complex visuomotor rotation learning task increases aerobic glycolysis in premotor cortex for several hours following task completion Further we show that regional brain metabolism is correlated to neurotransmitter receptor density Aerobic glycolysis is highest in regions with a balanced density of excitatory and inhibitory receptors Taken together these results demonstrate the functional significance of resting aerobic glycolysis and its modulation by transient functional activity These data provide supporting evidence for the synaptic homeostasis hypothesis indicating elevation in brain metabolism specifically aerobic glycolysis during wakefulness associated with alterations in synaptic strength and receptor density

Post-mortem Glycolysis and Atpase Activity in the Skeletal Muscle of the Pig and Ox Carmel Mothersill,1976

Whispering the Techniques of Language: An Emotional Journey through **Pogil Activity Answers Glycolysis**

In a digitally-driven world where screens reign supreme and immediate communication drowns out the subtleties of language, the profound strategies and emotional subtleties hidden within words frequently get unheard. Yet, located within the pages of **Pogil Activity Answers Glycolysis** a charming fictional value pulsing with natural thoughts, lies an exceptional quest waiting to be undertaken. Composed by a talented wordsmith, this charming opus encourages viewers on an introspective journey, gently unraveling the veiled truths and profound affect resonating within ab muscles cloth of each word. Within the emotional depths with this poignant review, we shall embark upon a honest exploration of the book is primary styles, dissect its charming writing fashion, and succumb to the effective resonance it evokes heavy within the recesses of readers hearts.

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