

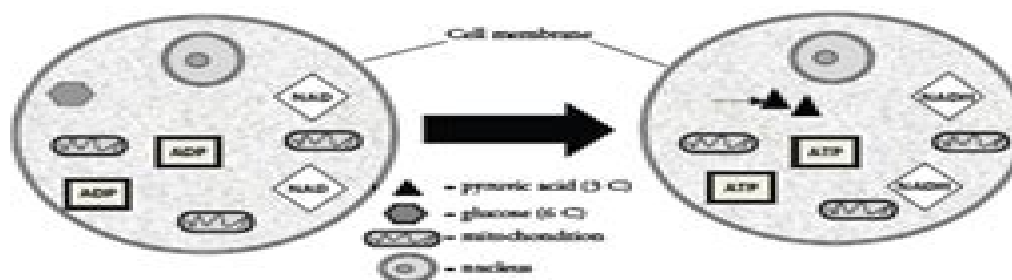
#### 4.4-4.6 Worksheet Cellular Respiration

*How is energy transferred and transformed in living systems?*

##### Why?

Living organisms display the property of **metabolism**, which is a general term to describe the processes carried out to acquire and use energy. We know that people need to eat, and in our foods are various kinds of nutrients that our cells use. One large group of nutrients in our foods is carbohydrates, which supply our cells with glucose ( $C_6H_{12}O_6$ ). So the question is: How does the food we chew and swallow fuel our cells?

##### Model 1 – Glycolysis



- Refer to Model 1.
  - What is represented by the hexagon? \_\_\_\_\_
  - How many carbon atoms (C) are in one molecule of glucose? \_\_\_\_\_
- Refer to Model 1.
  - What is represented by the triangles? \_\_\_\_\_
  - How many carbon atoms (C) are in one molecule of pyruvic acid? \_\_\_\_\_
- In the process of glycolysis, what happens to glucose after it crosses the cell membrane into the cytoplasm of the cell? \_\_\_\_\_

##### Read This!

Glycolysis occurs in the cytoplasm of cells and does not require the presence of oxygen. Therefore, the process is **anaerobic**. It is the first step used by cells to extract energy from glucose in the form of ATP. ATP can be directly used by cells.

- Thinking about the number of carbon atoms in glucose and in pyruvic acid, explain why there is one molecule of glucose on the left side of the arrow and two molecules of pyruvic acid on the right side of the arrow. \_\_\_\_\_
- How many ATP molecules are produced during glycolysis? \_\_\_\_\_
- Hydrogen-carrying molecules are also produced during glycolysis. What is the symbol of these hydrogen-carrying molecules? \_\_\_\_\_
- Does glycolysis occur inside or outside the mitochondria? \_\_\_\_\_

# Cell Size Pogil Answers Key

**Daniel Fischbein Berenson**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Cell Size Pogil Answers Key:**

**Measurement and Maintenance of Human Cell Size** Daniel Fischbein Berenson, 2019 How cells reach and maintain the right size is a longstanding question in biology Moreover the many ways in which cell size may influence cellular physiology have received insufficient attention Research has been hindered by inadequate tools for measuring size in living cells In this dissertation a novel strategy is developed to measure the size of single human cells using a nuclear localized fluorescent protein expressed from a constitutive promoter This method is validated by comparing it to established alternatives with the result that the fluorescence measurements are more robust and less dependent on image segmentation than the commonly used measurement of nuclear volume Then this strategy is applied to understand the size dependence of a crucial part of the cell cycle the transition from G1 to S phase and how it contributes to cell size homeostasis One hypothesis is that titration of a size proportional factor against a size independent molecular factor could function as a molecular ruler to create a size dependent biochemical signal Several cell cycle regulatory proteins are tested as candidates and it is observed that one of them the retinoblastoma protein Rb is unique in its size nonscaling behavior Rb is diluted during G1 phase This property of Rb is a consequence of its synthesis partitioning and degradation pattern Finally it is demonstrated that Rb concentration is a size dependent determinant of cell cycle progression Future areas of inquiry include the phenomenology of cell growth mechanisms of size scaling and in vivo size homeostasis

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