

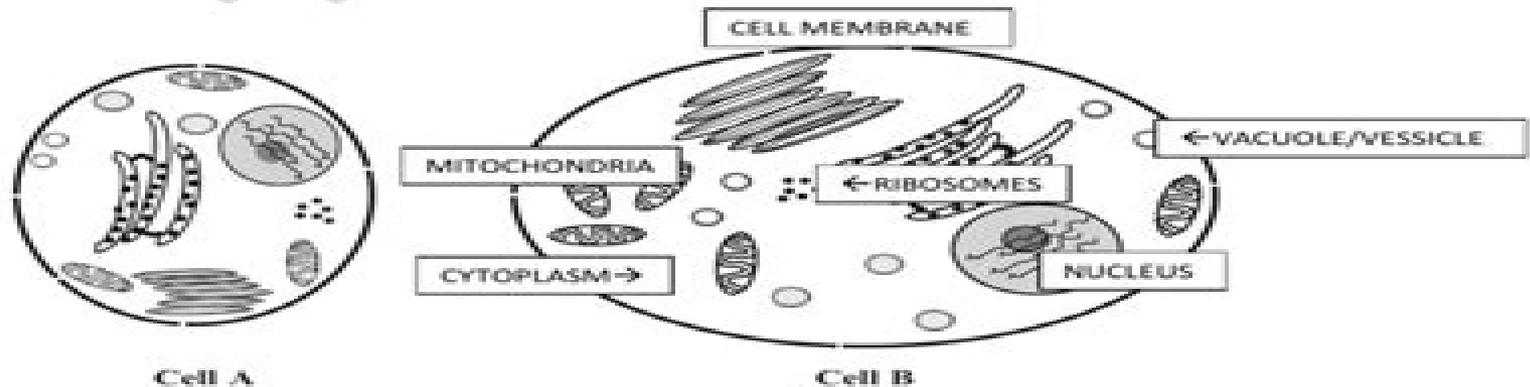
Cell Size

What determines the size of a cell?

Why?

Sometimes bigger is better—tall basketball players, more closet space, and savings accounts may come to mind. What about cells? Does having big cells make an organism bigger or better? Would having larger cells be an advantage to an organism? If so, why do cells divide rather than continue growing? Maybe there is an advantage to being small.

Model 1 – Investigating Cell Size



1. Are the cells shown in Model 1 plant or animal cells? Explain your answer.
ANIMAL – NO CELL WALL, CHLOROPLAST, LARGE CENTRAL VACUOLE

2. Label Cell B in Model 1 with the following structures.

cell membrane	cytoplasm	nucleus
ribosomes	vacuole	mitochondria

3. Compare the smaller cell in Model 1 to the larger cell in Model 1.

a. Which cell has a larger surface area (more cell membrane surface)?

CELL B (LARGER CELL) HAS A LARGER SURFACE AREA THAN CELL A.

b. Which cell has more channels in its cell membrane that can transport molecules (nutrients, oxygen, and waste products) in and out of the cell?

CELL B (LARGER CELL) HAS MORE CELL MEMBRANE CHANNELS THAN CELL A.

Cell Size Pogil Answers

Mangor



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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

Cells Mangor, 2016-01-01 A look at animal and human cells and the internal structures that allow them to obtain energy get rid of wastes grow and reproduce

Cells: What Cells Do Angela Wagner, 2013-04-01 This is the chapter slice What Cells Do from the full lesson plan Cells Cells are the building blocks of life We take you from the parts of plant and animal cells and what they do to single celled and multi cellular organisms Using simplified language and vocabulary concepts we discover human cell reproduction as well as diffusion and osmosis Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Ready to use reading passages student activities and color mini posters our resource is effective for a whole class small group and independent work All of our content meets the Common Core State Standards and are written to Bloom s Taxonomy and STEM initiatives

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