

## Cell Size

Cells are very small, microscopic. To carry out their work, cells need a constant supply of materials such as oxygen, water and food particles. They also need to get rid of waste products. If cells were bigger, they would not function properly since they would need more material and would need to produce more waste products.

Remember the only way for material to get in or out of the cell is through the cell membrane.

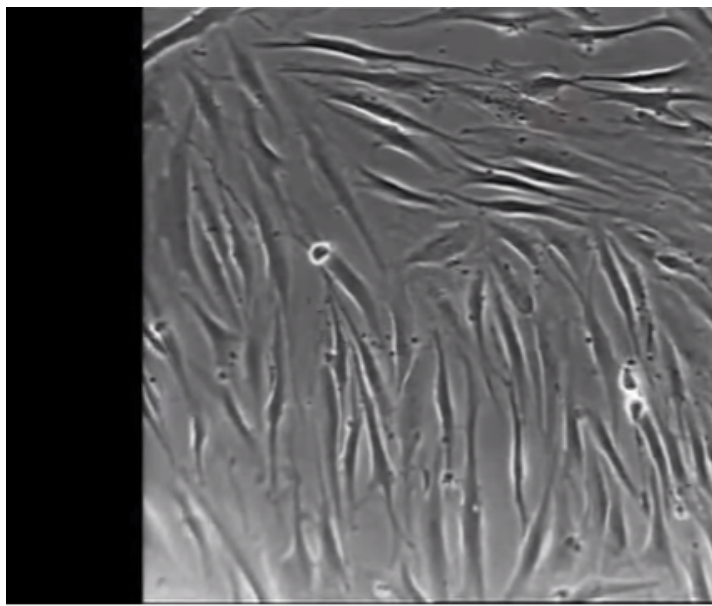
Let's pretend that a round pool with diameter of 50m is a cell. The outside ring is the cell membrane. Beach balls are food and rings are waste. You must keep the cell alive by swimming to the center with food and swimming back to the sides with waste. You MUST keep repeating this to keep it alive. Suppose you had to repeat this 12 times in a certain time. What would happen if the pool now had a 100m diameter ????



## Cell Size continued

{ Cells come in a variety of sizes and shapes. Most however, are small enough to allow them to carry out their individual function.

{ **To grow bigger and organism adds more cells to their body.**  
(individual cells don't get bigger). Ex) Fat Cells



Normal vs Cancer Cells

Sept 21

Journal 1

When I say the word cell, how do you  
relate that to Science? (Use terms or discussions  
from class)

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Last 10 min Study for matching quiz  
(which is tomorrow)