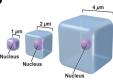
Cellular Growth

Ratio of Surface Area to Volume

- •As the cell grows, its <u>volume increases</u> much <u>more</u> rapidly than the <u>surface</u> <u>area</u>.
- Large cells have a small SA/Vol ratio making it difficult to maintain homeostasis
- SA is the plasma membrane
- VOL is cytoplasm & organelles



Why Cells are Small?

- Cellular Transport transport slows as cell gets bigger
- Cellular Communication -Difficult to communicate when cell is big