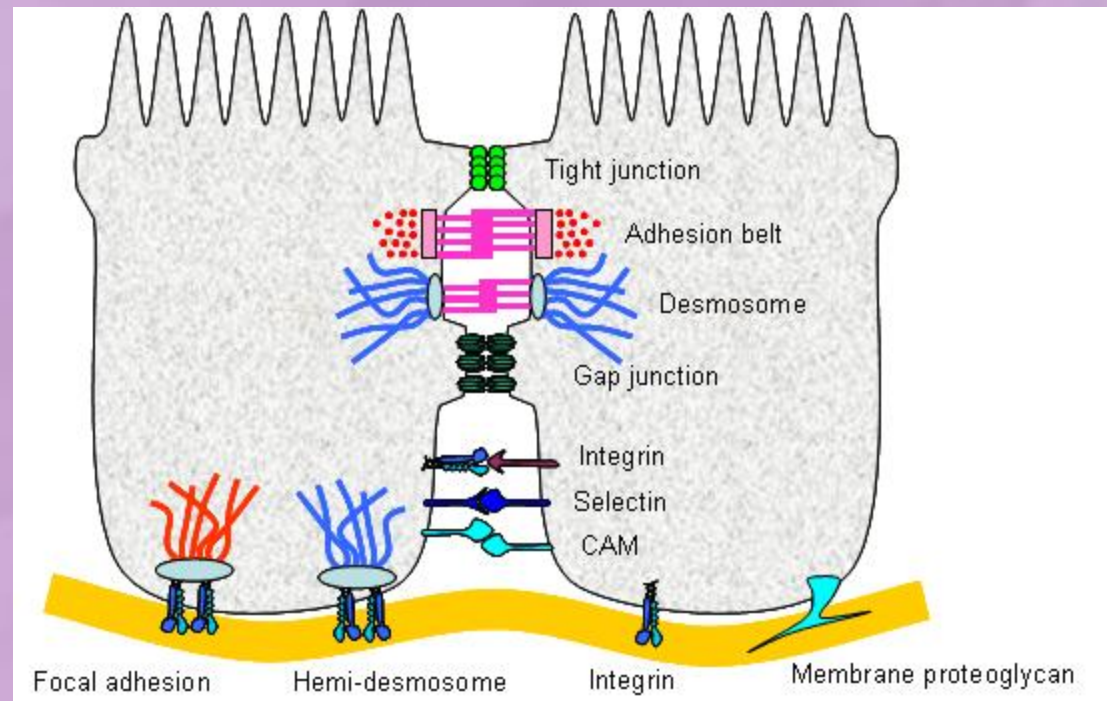


The Cell

By: Emily Hanson
Anne Marie Hanson
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Eddie Lin

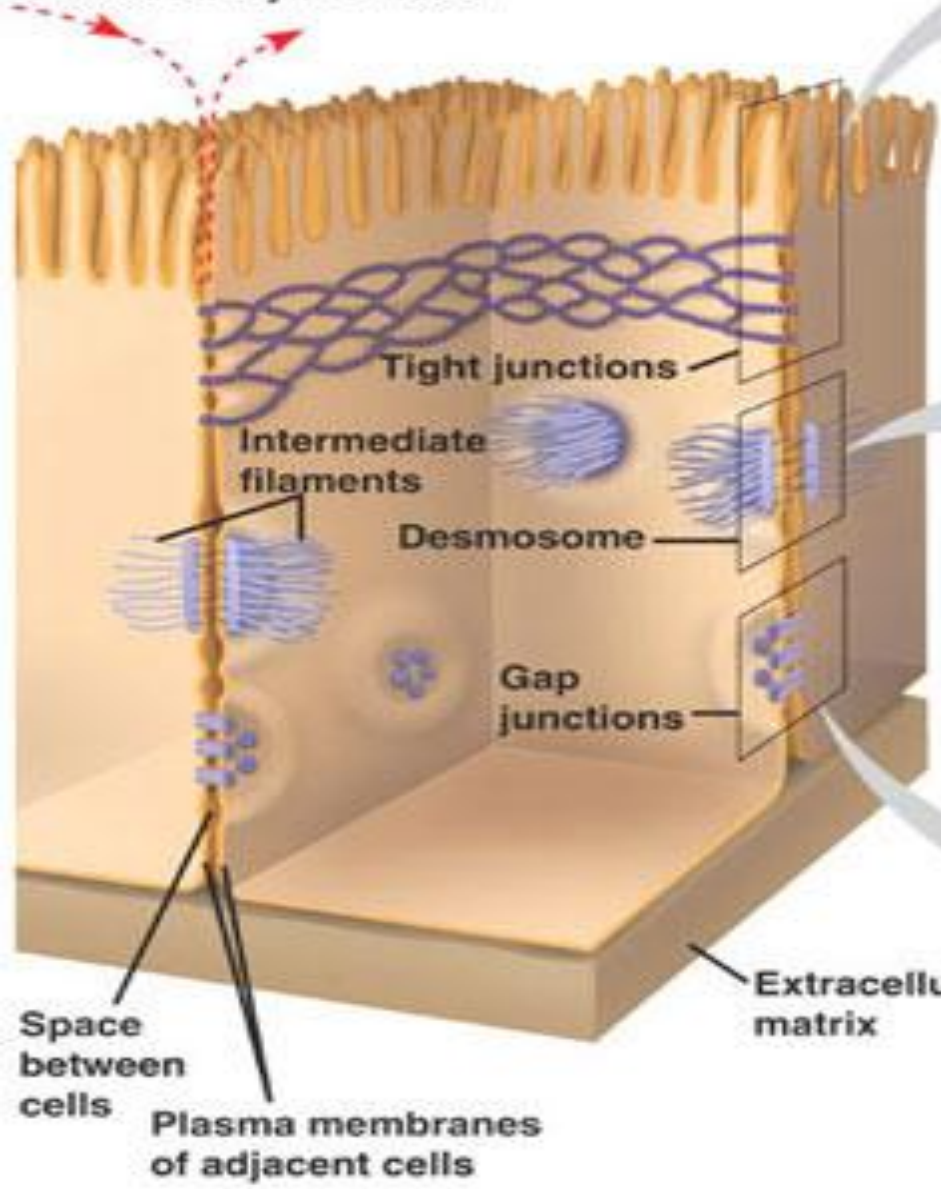
Desmosomes

- Found in animal cells in epithelial tissue.
- Size is 1 micrometer.



- Desmosomes function like rivets, fastening cells together into strong sheets.
- They attach muscle cells to each other in a muscle.
- They are the major cell surface attachment site for intermediate filaments at cell-cell contacts.

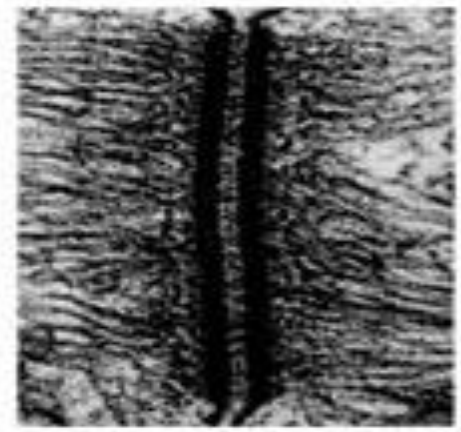
Tight junctions prevent fluid from moving across a layer of cells



Tight junction



0.5 μm



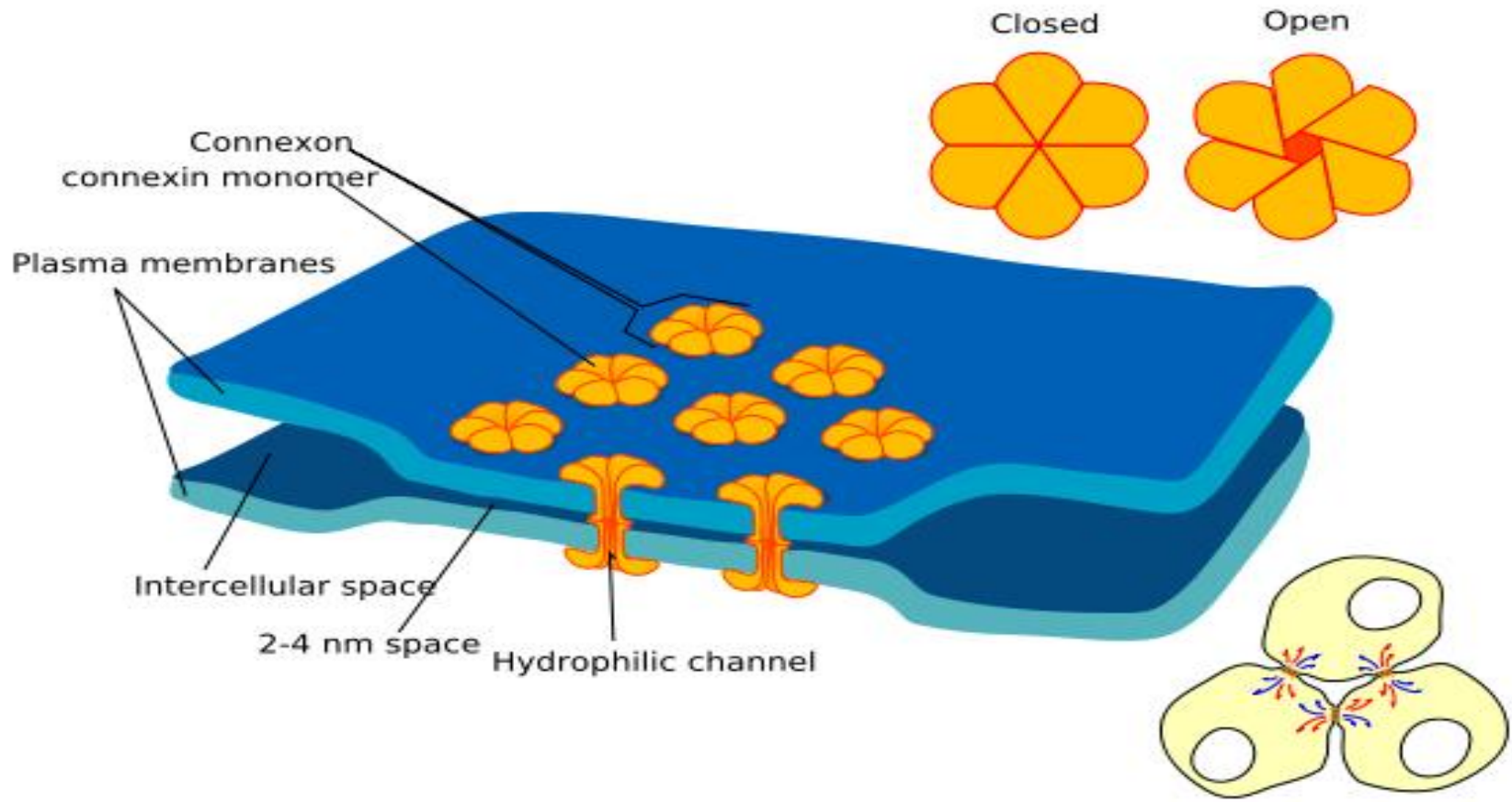
1 μm

Gap junction



0.1 μm

Gap Junction



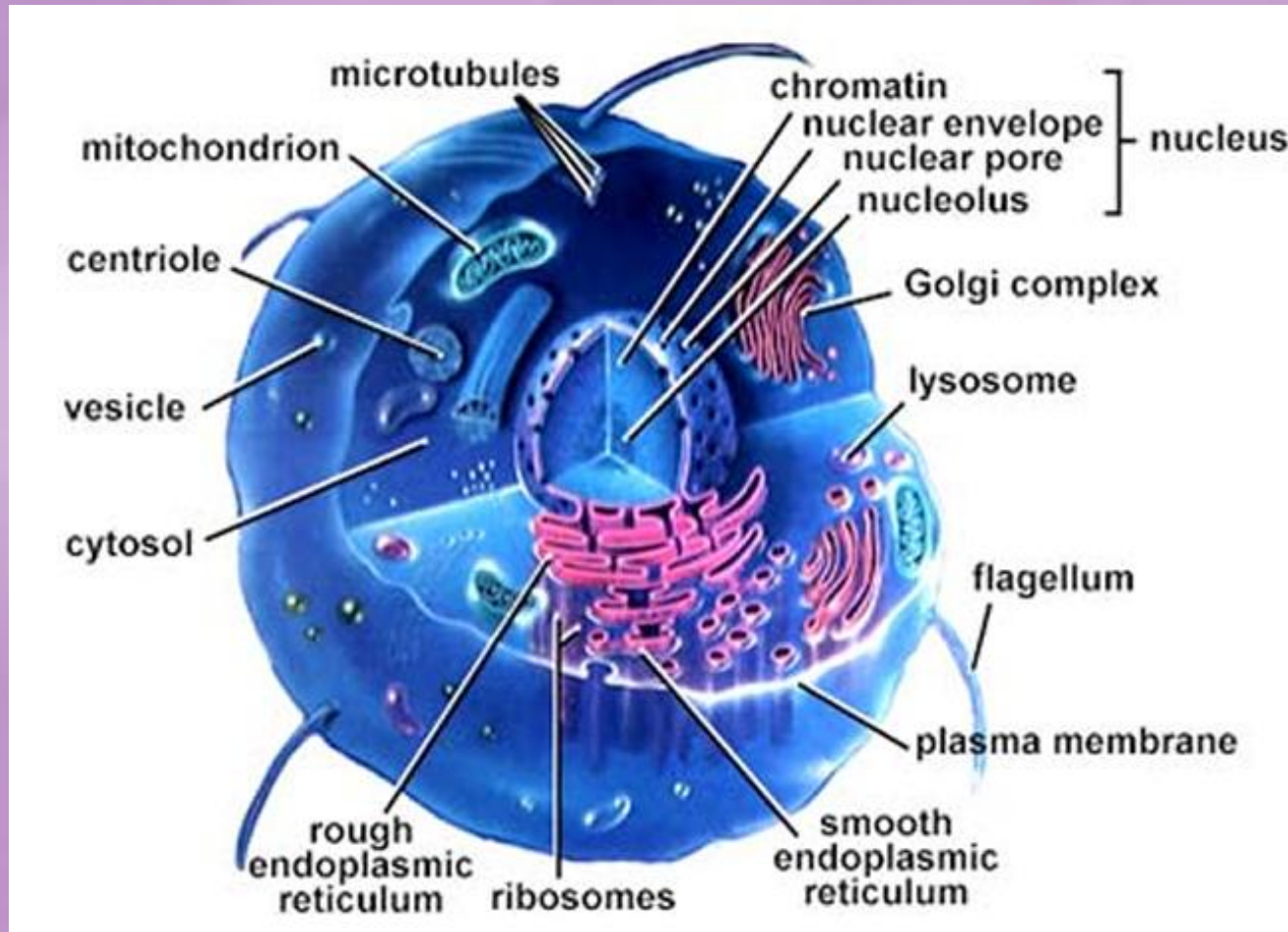
Gap Junctions

- Found in animal cells in epithelial tissue
- Size in one Micro Meter
- Provide cytoplasmic channels from one cell to another adjacent cell

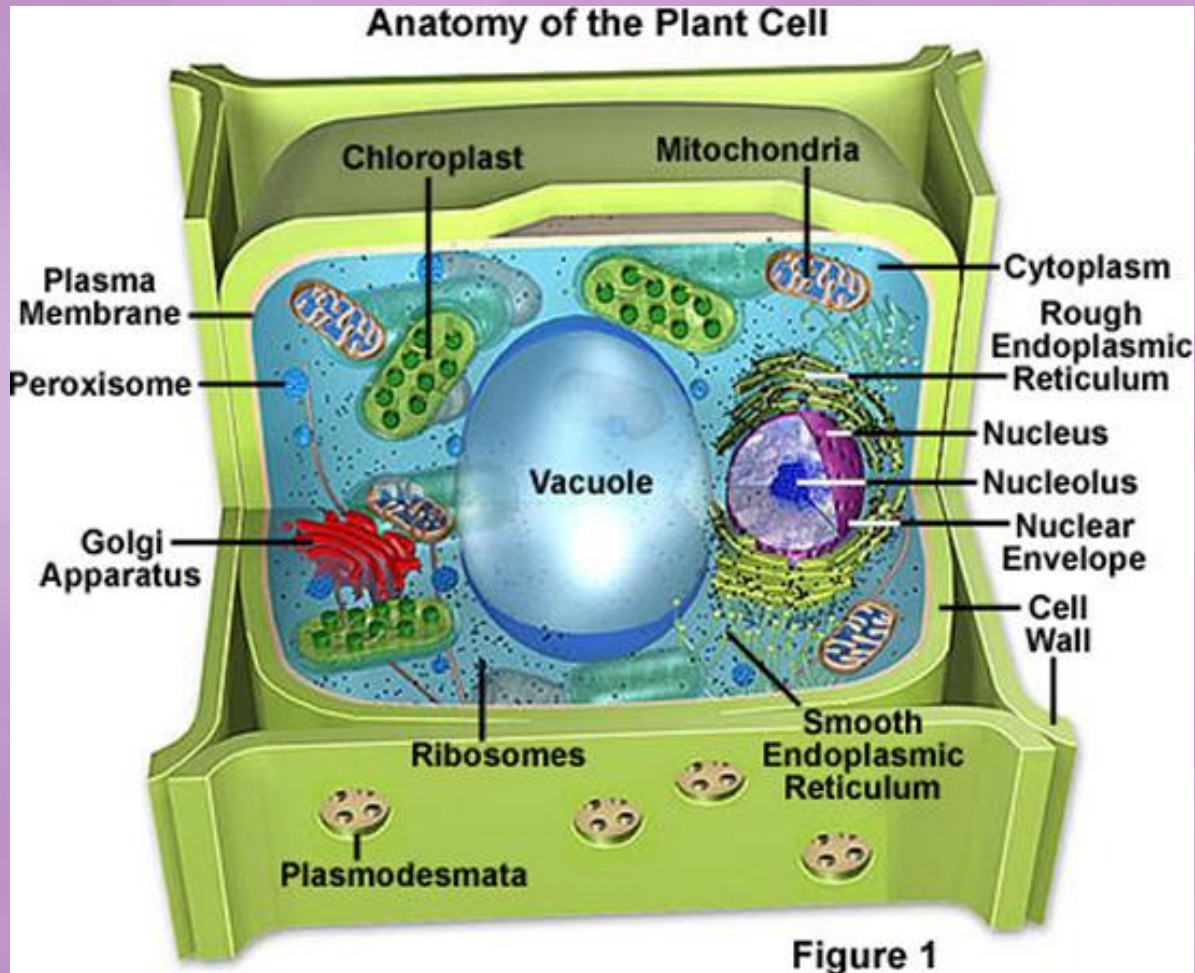
Gap Junction

- Its process is cellular communication and recognition.
- Gap Junctions are necessary for communication between cells in many tissues including: heart, muscle, and animal embryos

Animal Cell

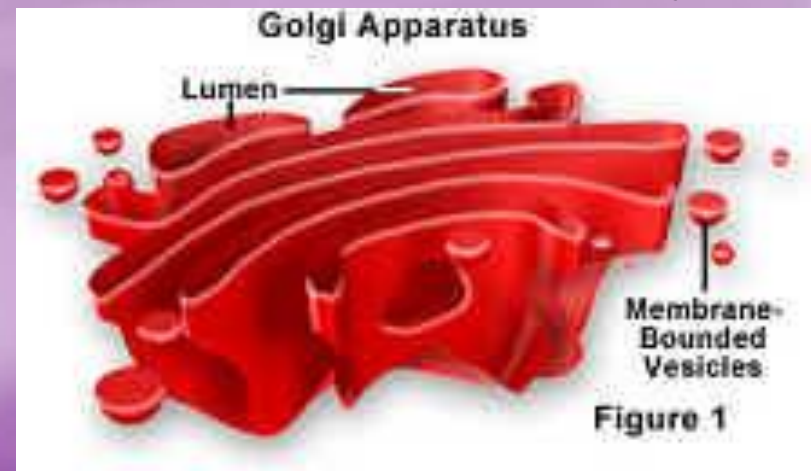


Plant Cell



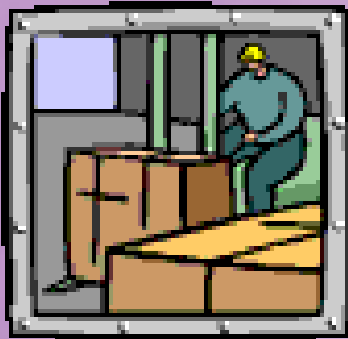
Golgi Apparatus

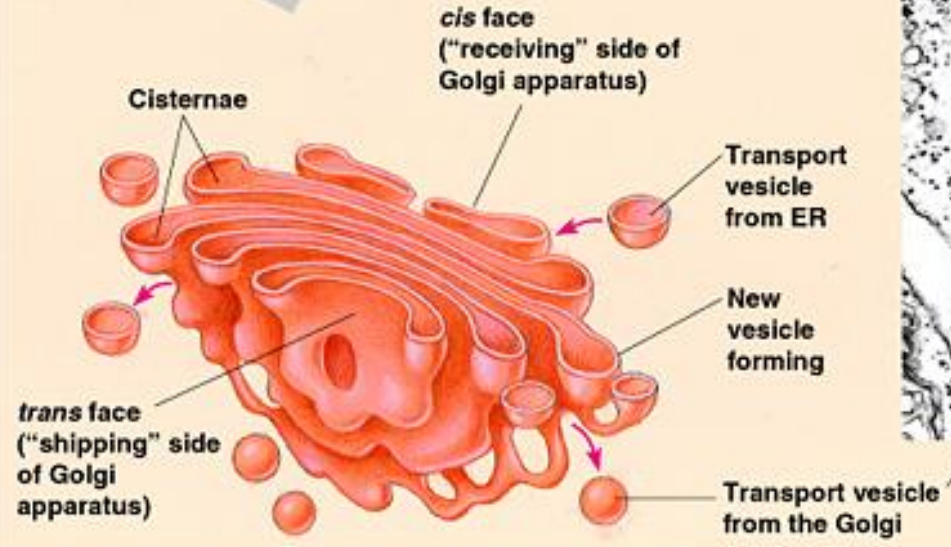
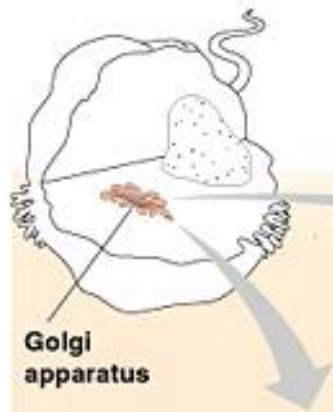
- 0.3 to 0.5 micrometers long
- Found in Eukaryotes, Such as animal cells and plant cells
- Consists of flattened membranous sacs called cisternae
- Between five and eight cisternae are usually present



- The Golgi is located between the endoplasmic reticulum and the cell surface.
- In plant cells, the Golgi secretes the cell plate and cell wall.
- The Golgi apparatus is integral in modifying, sorting, and packaging these substances for cell secretion (exocytosis) or for use within the cell.

- It primarily is devoted to processing the proteins synthesized in the endoplasmic reticulum (ER), but it is also involved in the transport of lipids around the cell, and the creation of lysosomes.
- In this respect it can be thought of as similar to a post office; it packages and labels items and then sends them to different parts of the cell.





1 μ m

Lysosome

- It is found in the cytoplasm of animal cells and protist.
- Lysosome's digest materials taken into the cell and recycle intracellular materials.
- Most lysosomes are roughly spherical or elongate bodies with largest dimensions of 0.1–1 micrometer or greater.
- Tens to hundreds are present in a single cell.

Lysosome

- Process is Phagocytosis, which is engulfing smaller organisms or food particles
- <http://highered.mcgraw-hill.com/olc/dl/120067/bio01.swf>

