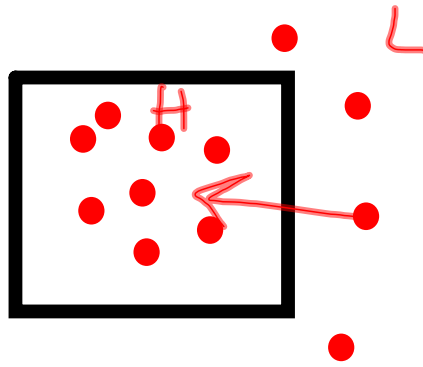


Sometimes things need to be transported into the cell which might be against the concentration gradient.



Oct 17 - 2:01 PM

Transporting against the concentration gradient is called

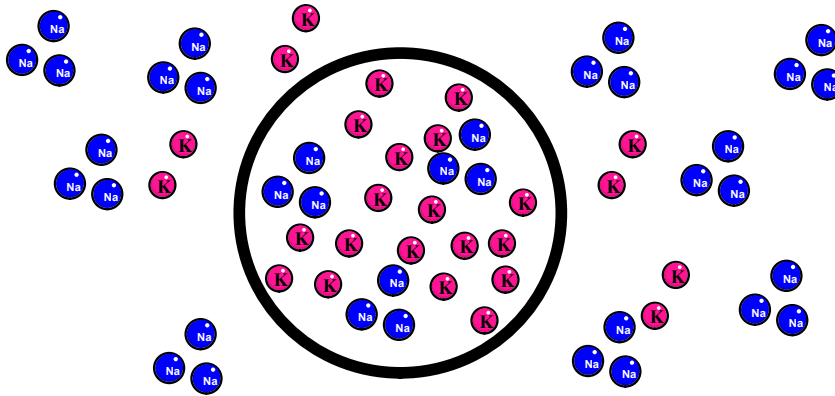
active
transport

This requires the cell to use ATP (energy)



Oct 17 - 2:11 PM

Sodium-Potassium Pump



Oct 17 - 2:17 PM

The sodium-potassium pump does two things:

- 1. Prevents sodium from accumulating inside the cell. Sodium diffuses into the cell.**
- 2. Maintains the sodium and potassium gradients.**

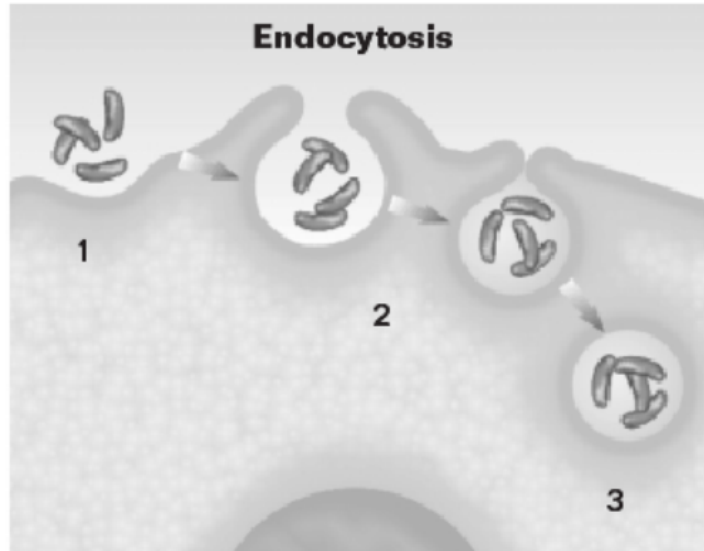
Oct 17 - 2:23 PM

Many substances are too large to be transported by active transport carrier proteins

Oct 17 - 2:26 PM

Endocytosis- In movement of a substance into a cell by a vesicle.

Oct 17 - 2:31 PM

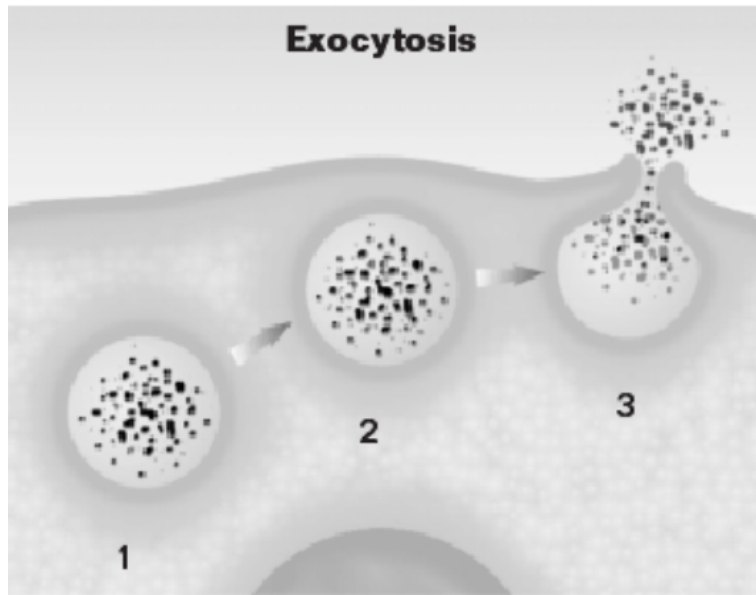


BIOSOURCES
TRANSPARENCY MASTER

Oct 18 - 8:26 AM

Exocytosis-
movement Exit
of a substance
by a vesicle to
the outside **of**
a cell

Oct 17 - 2:32 PM



BIO SOURCES
TRANSPARENCY MASTER

Oct 18 - 8:28 AM

**Receptor
proteins do
three things**

**1. Can change
permiability
making an ion
channel stay
open.**

*like
propping
a door*

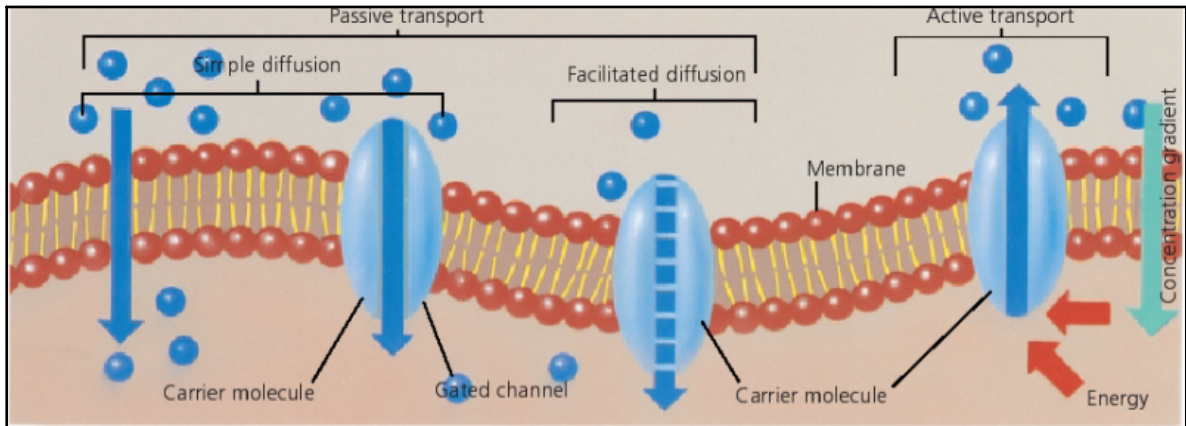
Oct 17 - 2:35 PM

2. It can make Second messengers that act as a signal molecule in the cytoplasm.

Oct 17 - 2:36 PM

3. It can activate enzymes in cells or trigger other chemical reactions.

Oct 17 - 2:38 PM



BIOSOURCES
TEACHING TRANSPARENCIES



Oct 18 - 8:29 AM

Oct 30-3:02 PM

Attachments

cell_trans_active_uptake.mov

cell_trans_active_protein_pump.mov

carrier_protein_g.mov