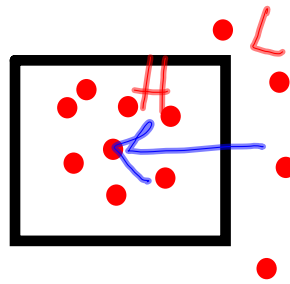


Sometimes things need to be transported into the cell which might be against the concentration gradient.



Oct 17 - 2:01 PM

Transporting against the concentration gradient is called

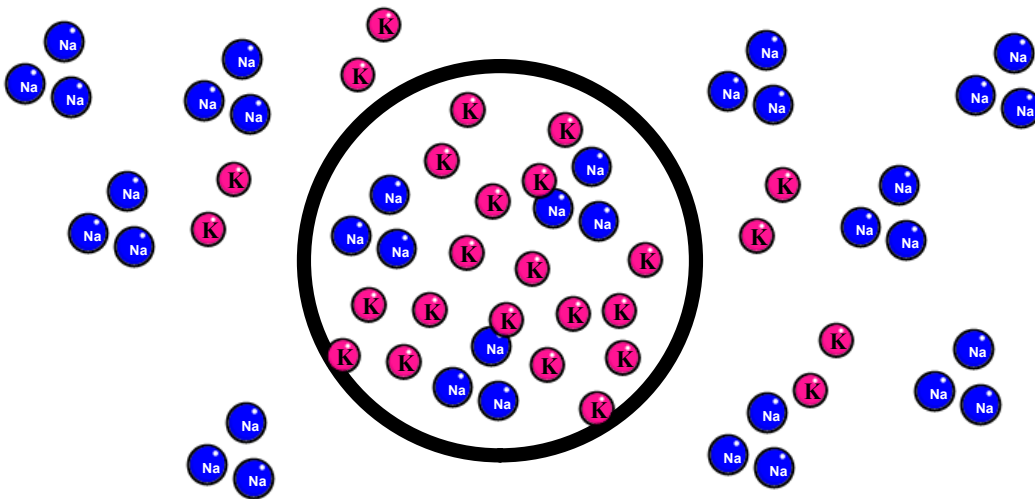
active transport.

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.**

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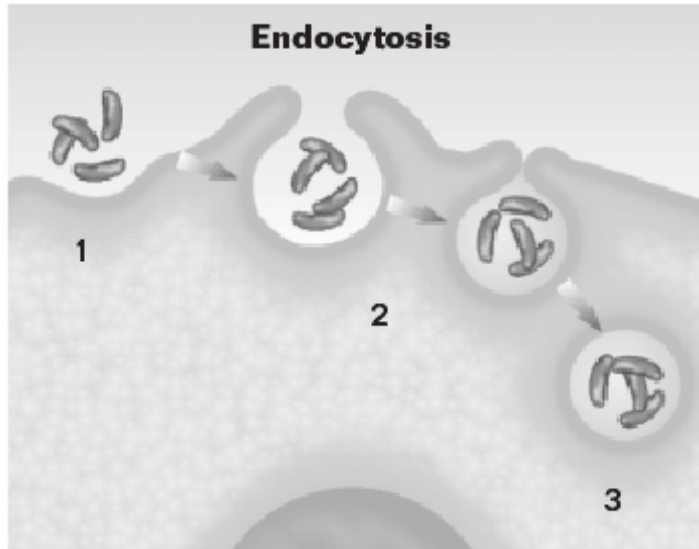
Many substances are too large to be transported by carrier proteins.

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**Endocytosis-
movement of a
Substance into a
cell by a vesicle.**

into

Oct 17 - 2:31 PM

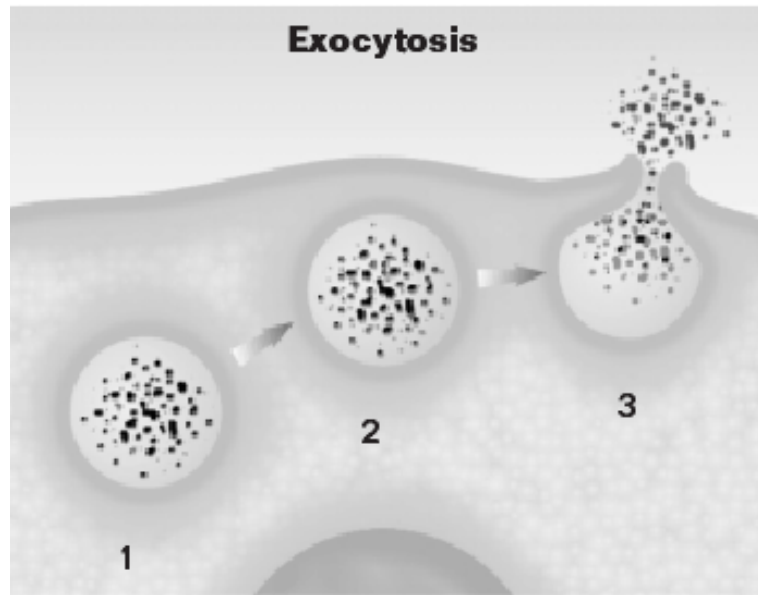


BIO SOURCES
TRANSPARENCY MASTER

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Exocytosis - *Bit*
movement . /
of a substance
by a vesicle to
the out of
a cell

Oct 17 - 2:32 PM



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**Receptor
proteins do
three things**

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

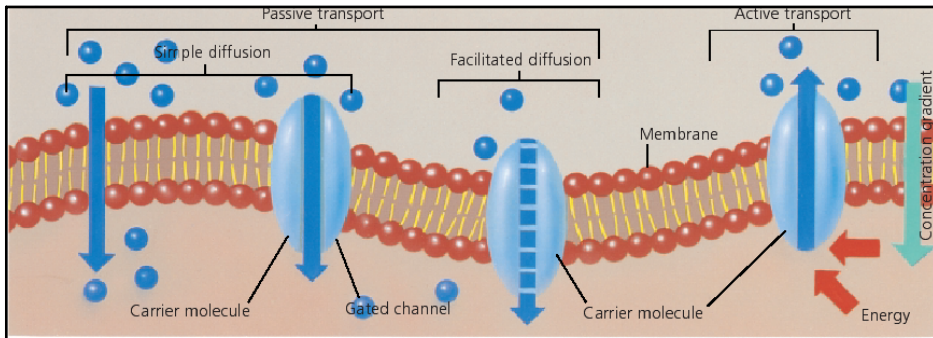
Oct 17 - 2:35 PM

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

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

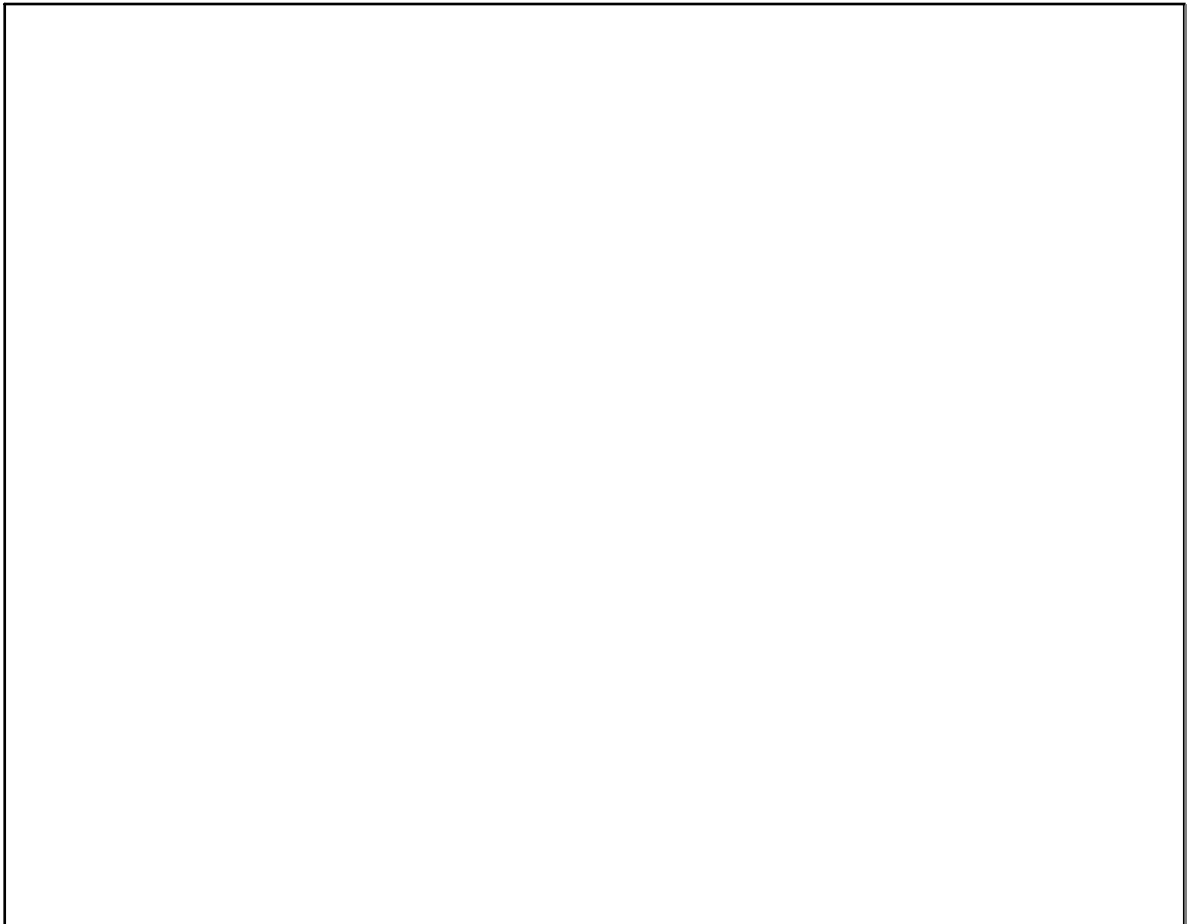
Oct 17 - 2:38 PM



BIOSOURCES
TEACHING TRANSPARENCIES

Video

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