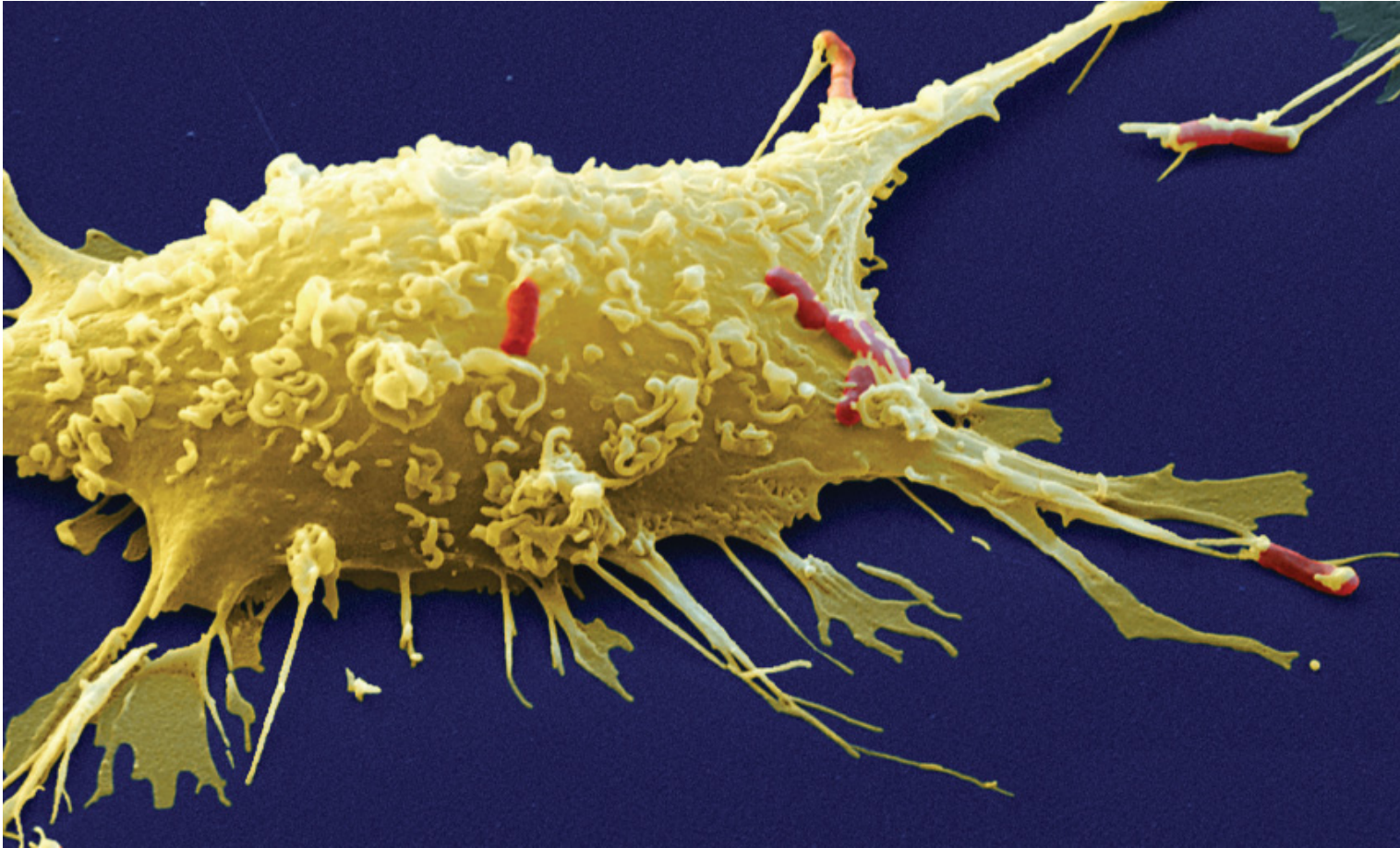


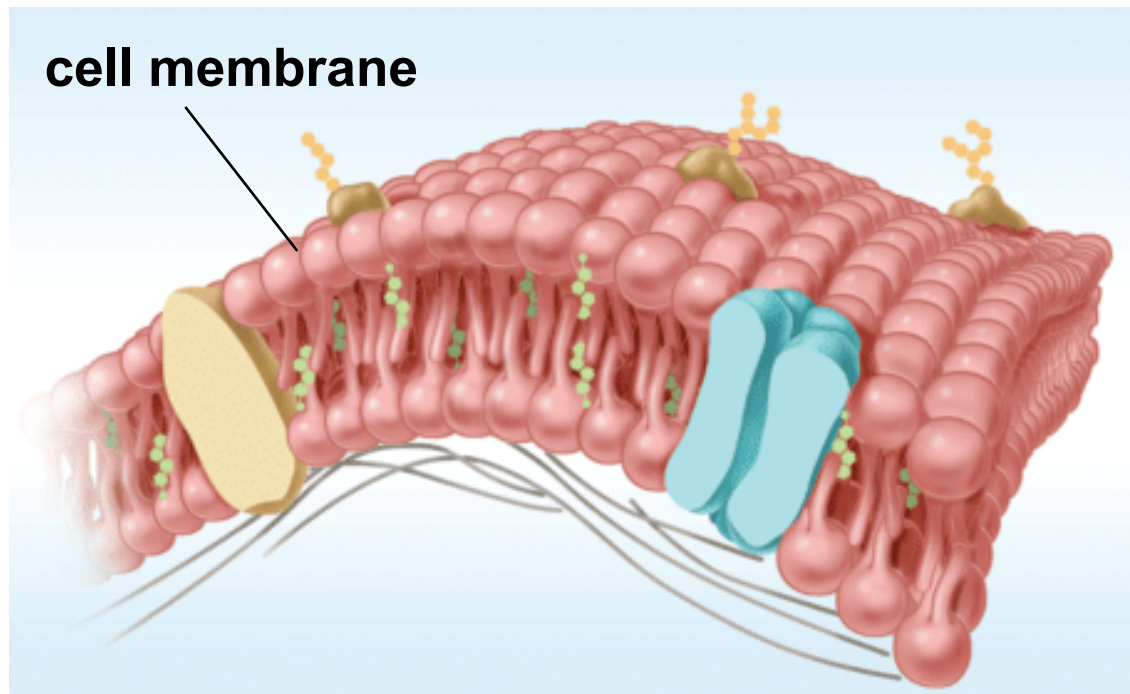
## 3.3 Cell Membrane

**KEY CONCEPT** The cell membrane is a barrier that separates a cell from the external environment.



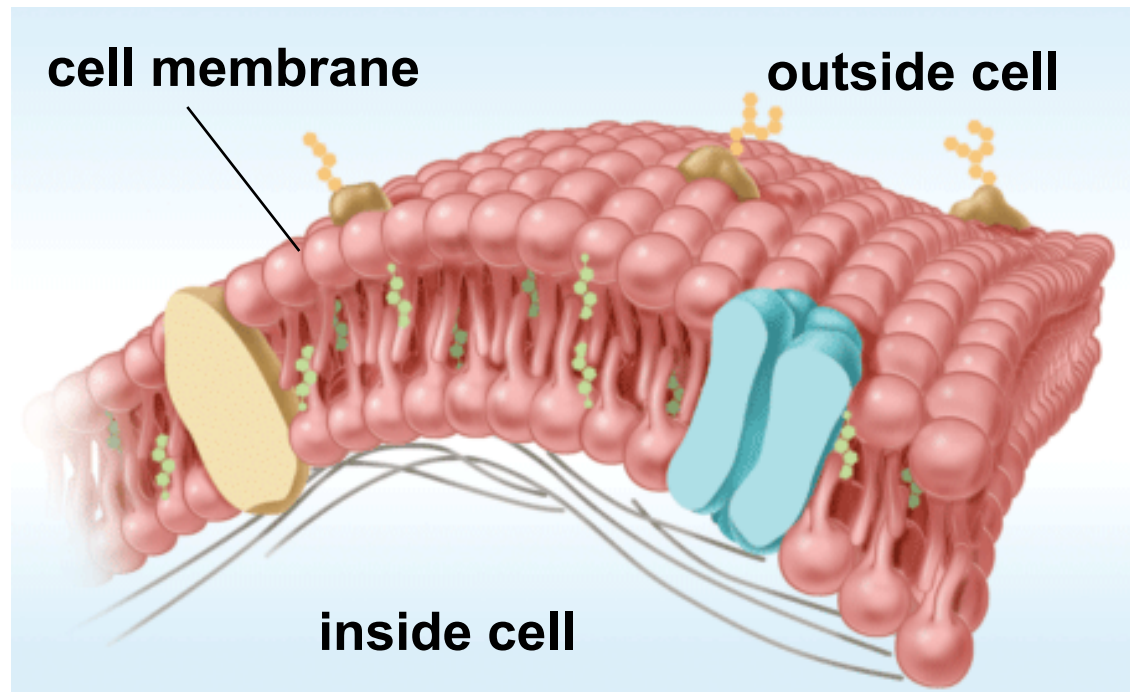
## 3.3 Cell Membrane

- ▶ **Cell membranes are composed of two phospholipid layers.**
  - The cell membrane has two major functions.



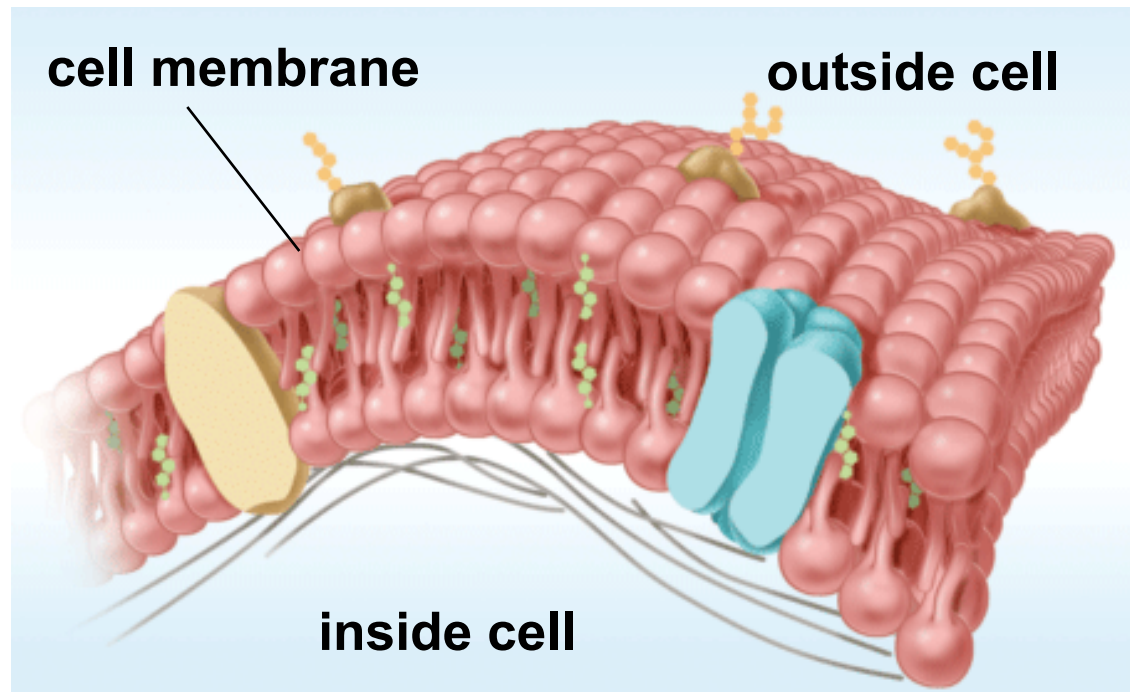
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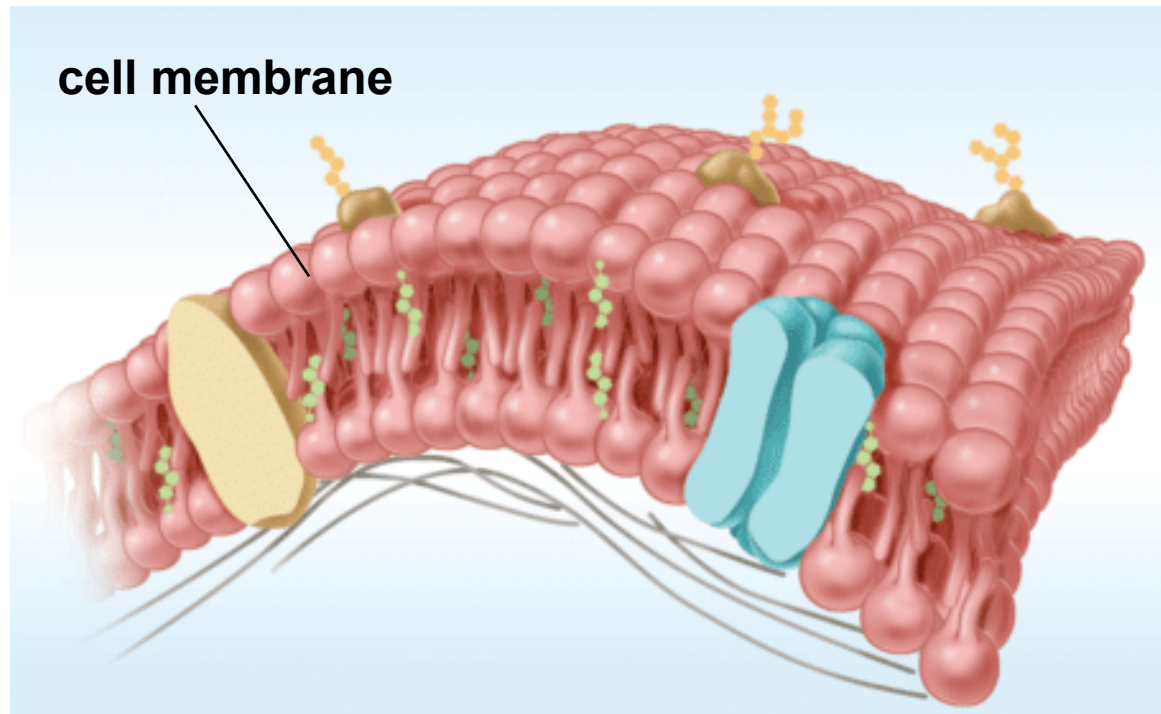
## 3.3 Cell Membrane

- ▶ **Cell membranes are composed of two phospholipid layers.**
  - The cell membrane has two major functions.
    - forms a boundary between inside and outside of the cell
    - controls passage of materials



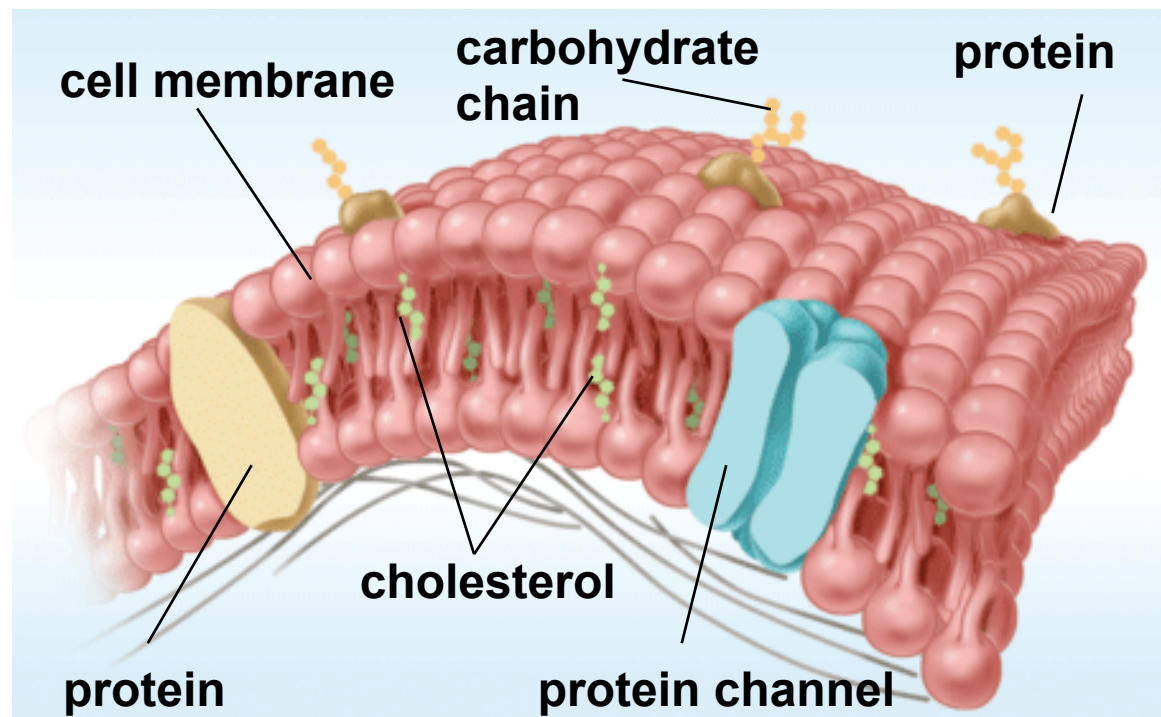
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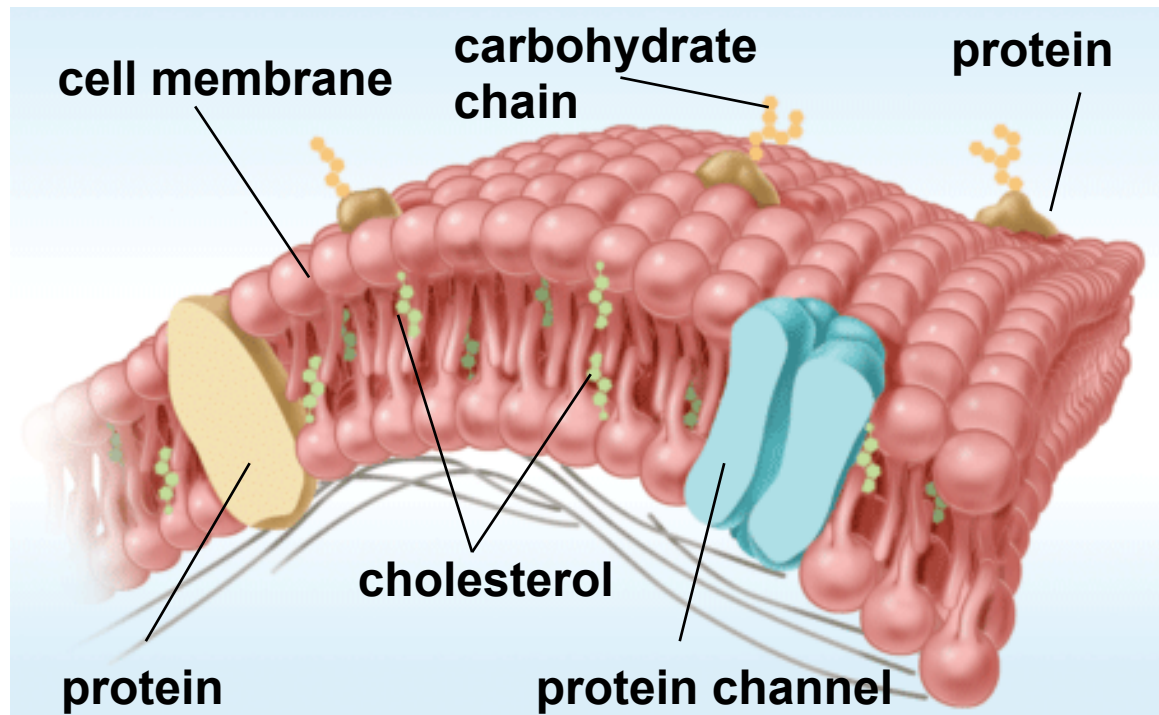
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  - The cell membrane is made of a phospholipid bilayer.
  - There are other molecules embedded in the membrane.



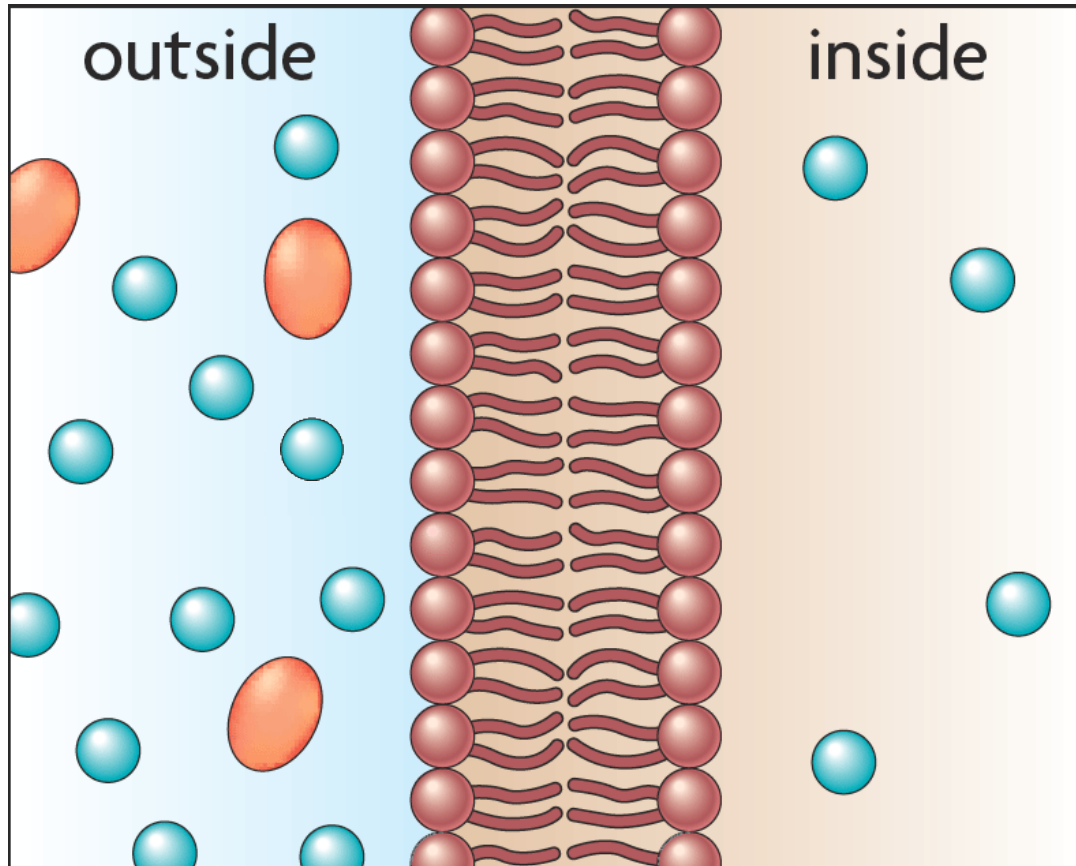
## 3.3 Cell Membrane

- ▶ **Cell membranes are composed of two phospholipid layers.**
  - The cell membrane is made of a phospholipid bilayer.
  - There are other molecules embedded in the membrane.
  - The fluid mosaic model describes the membrane.



## 3.3 Cell Membrane

- ▶ Cell membranes are composed of two phospholipid layers.
- The cell membrane is selectively permeable.

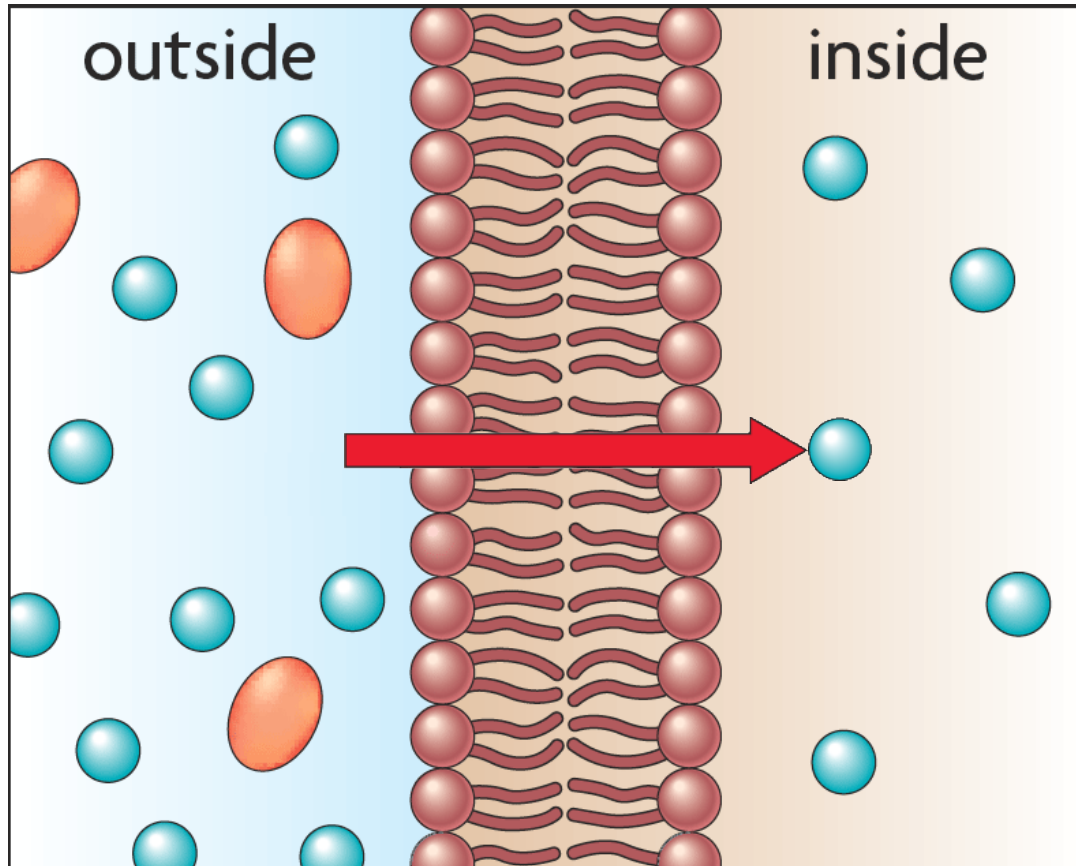


Some molecules can cross the membrane while others cannot.



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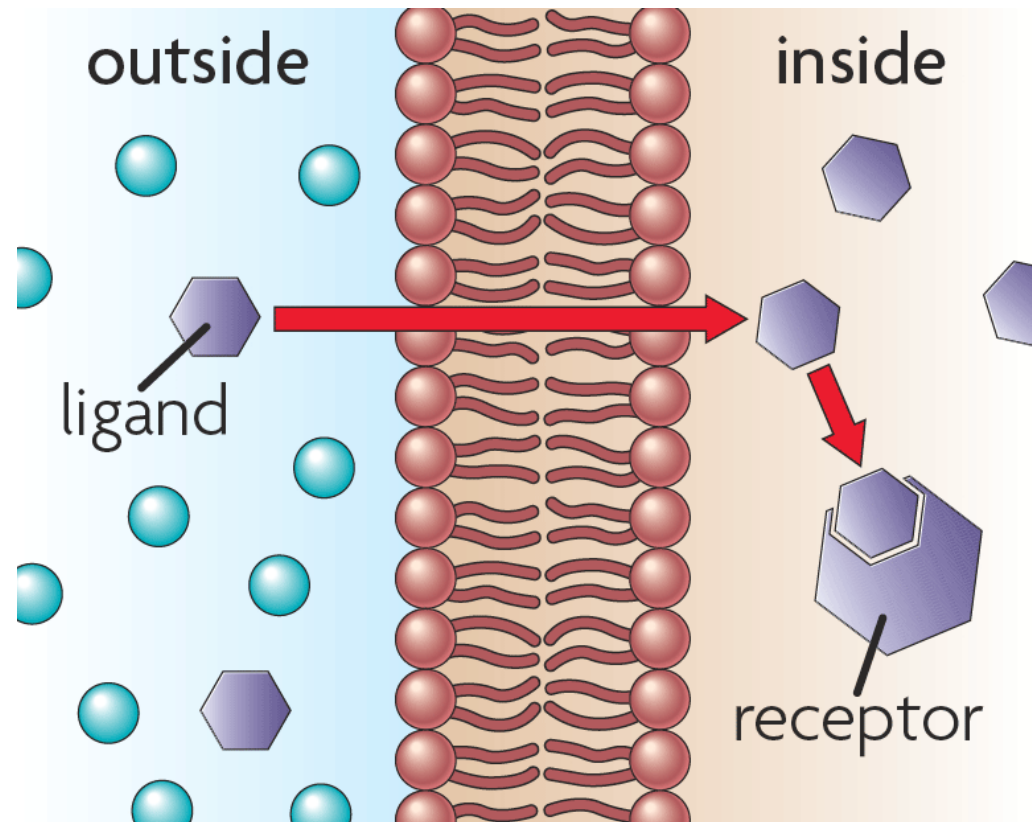
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    - membrane receptor

