

CELL MEMBRANE

Fluid Mosaic Model

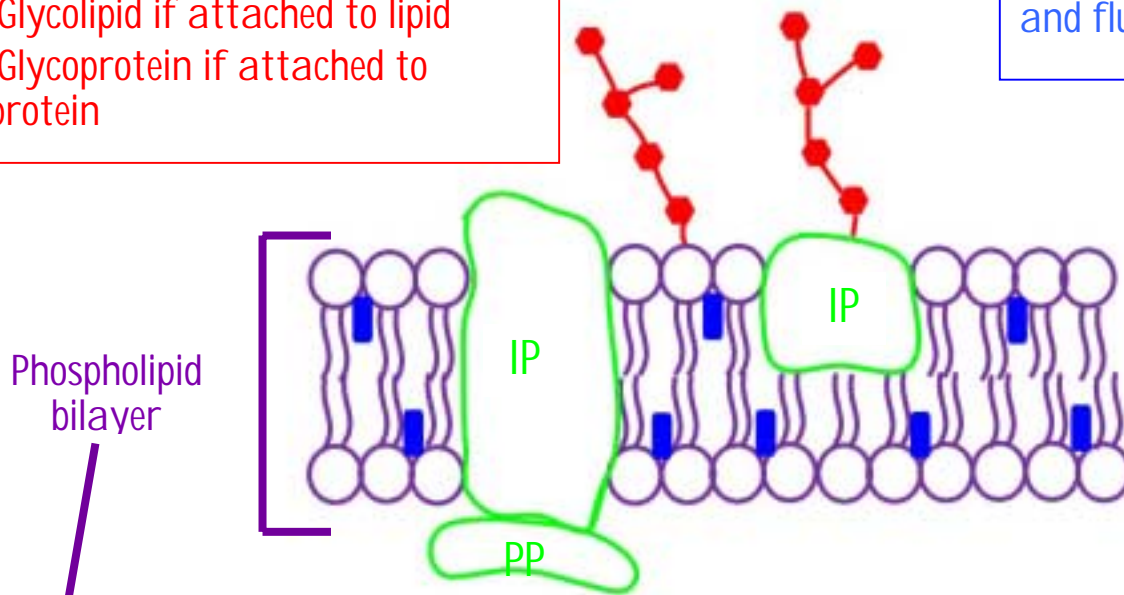
Fluid: Phospholipids in constant motion; proteins drift

Mosaic: Variety of proteins embedded and attached to membrane

Oligosaccharides

- Surface carbohydrates
- Short, branching chains
- Involved in cell-to-cell recognition
- Glycolipid if attached to lipid
- Glycoprotein if attached to protein

Cholesterol
Maintains & restricts
membrane flexibility
and fluidity



Phospholipid
bilayer



Head
Hydrophilic; polar
Phosphate group

Tail
Hydrophobic; nonpolar
Fatty acids

Proteins

Integral proteins (IP)

- Embedded within membrane
- Transport, carriers, receptors

Peripheral proteins (PP)

- Found on inner membrane surface
- Points of attachment for cytoskeleton