

## 7.5 nm Thick

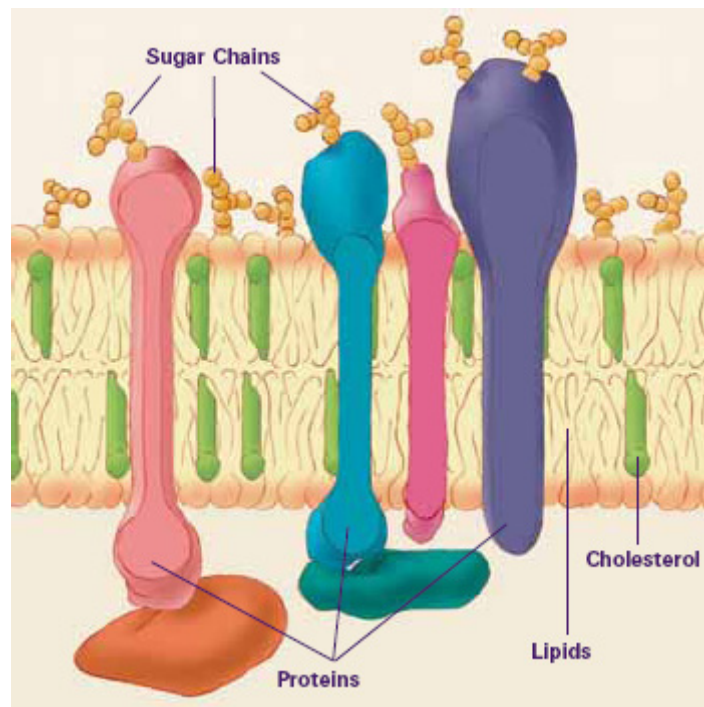


Image: National Institute of General Medical Sciences

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- Cell membranes are sheet-like structures, typically 7.5 nm thick
  - They consist mainly of lipid and protein, and may also contain sugars
  - Membrane lipids are relatively small molecules that have both hydrophilic and hydrophobic properties
  - Specific proteins mediate specific functions in membranes, e.g., transport and energy generation
  - Membranes are asymmetric
  - Membranes are fluid structures
  - Note: Nanometer =  $1 \times 10^{-9}$  meter
  - Fluid Mosaic Model // phospholipid bilayer