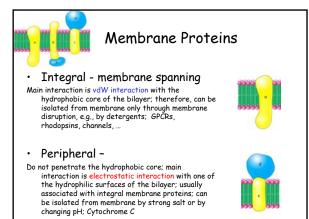
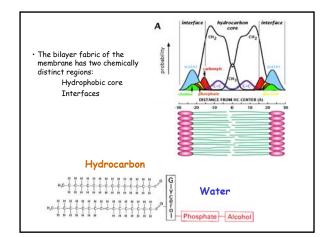


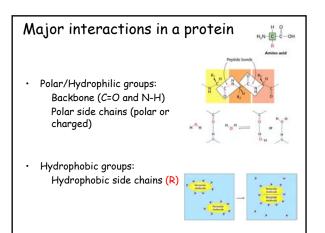
Summary of Biological Membranes

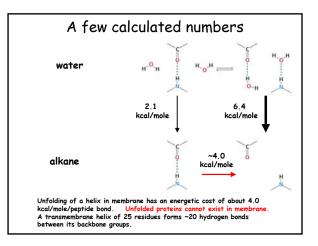
- Highly selective permeability barriers
- Amphiphilic organization
- Fluid Mosaic model: liquid and asymmetric
- Fluidity and thickness of membranes are determined by their lipid composition (saturated, longer chains make it less fluid)
- Hydrophobic core
- Hydrophilic Surfaces

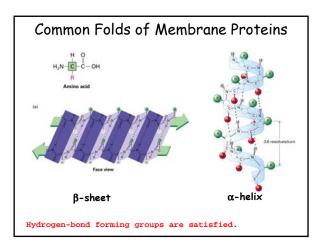


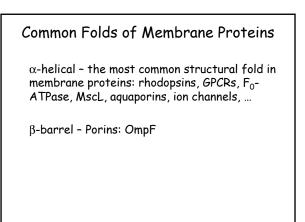


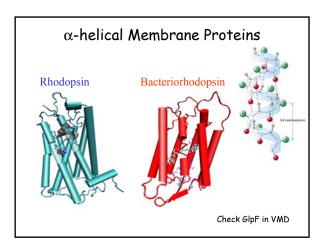


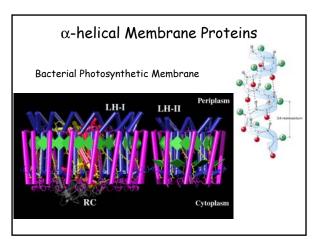


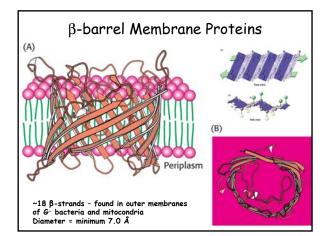


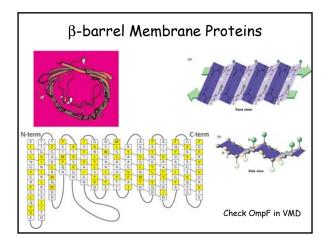


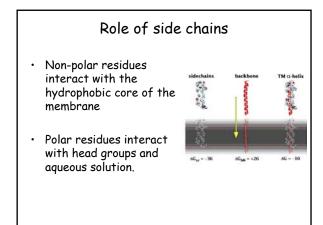


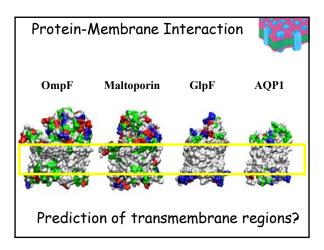


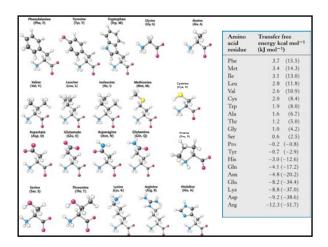


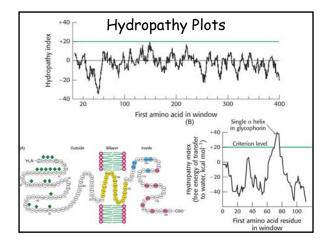












Prediction of transmembrane regions of membrane proteins by hydropathy plots ...

Failures:

- False positive: hydrophobic parts of globular proteins
- beta-barrel structures
- helices including a highly hydrophilic surface
- Assembly of transmembrane helices cannot be predicted

