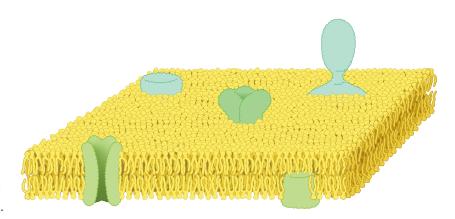
Build-A-Membrane

Cell membranes are made of phospholipid molecules that arrange themselves into two rows called a bilayer. Proteins are embedded in the phospholipid bilayer, through one or both layers. These proteins help other molecules cross the membrane, and they perform a variety of other functions. Follow the instructions below to build a model of a small section of cell membrane.

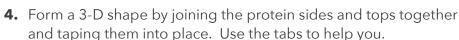




Instructions

- 1. Cut out the phospholipid bilayer (page 2) along the solid lines. Cut all the way to the edges of the paper, following the arrows.
- 2. Fold the phospholipid bilayer along the dotted lines. Tape the edges together to form a fully enclosed rectangular box.

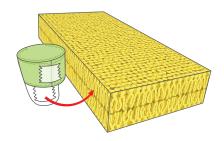


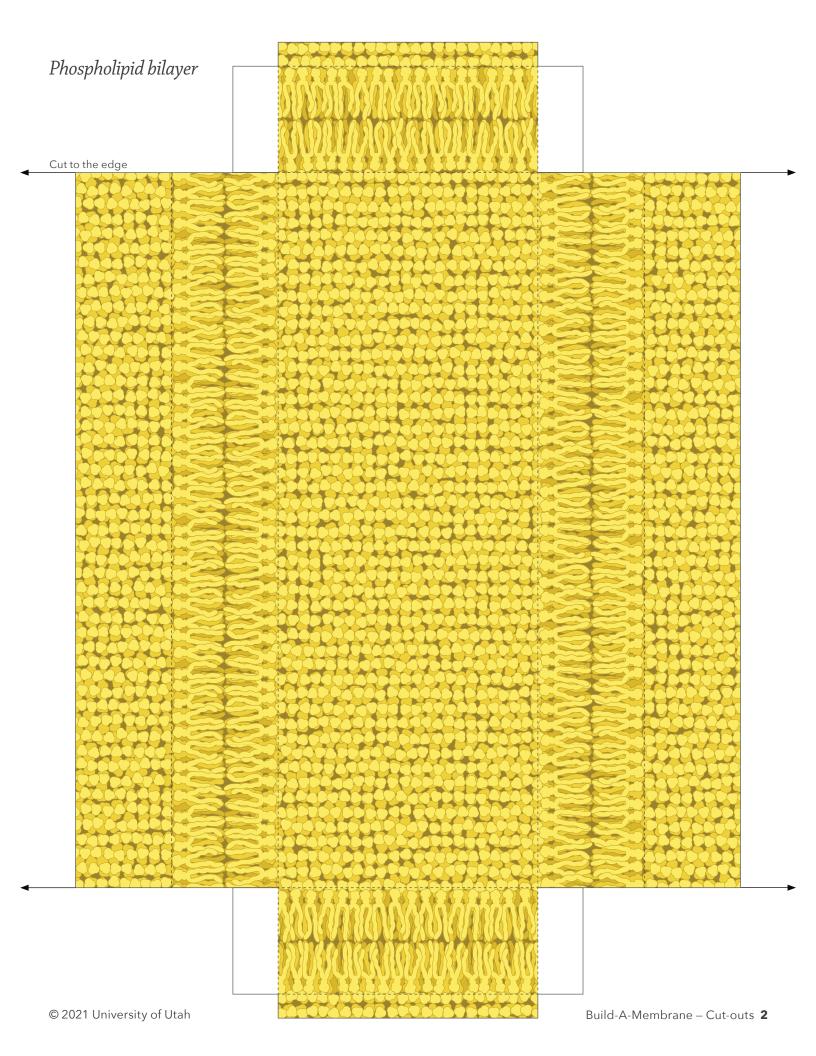




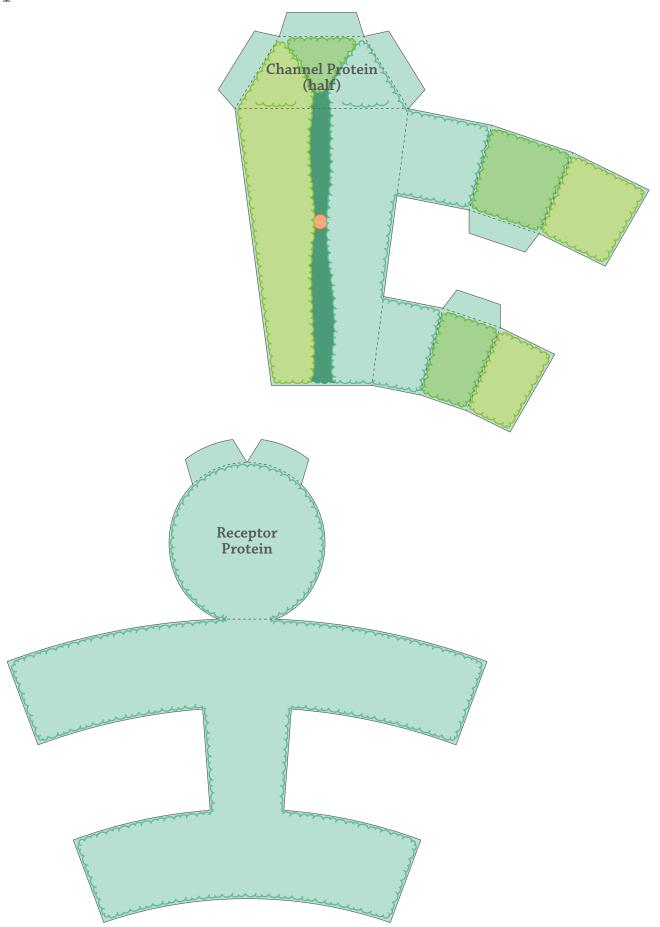


6. By staggering the transmembrane proteins back and forth along both long sides of the bilayer "box," the whole model will stand up by itself on a table.





Proteins 1



Proteins 2

