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Visit this [Open Stax AP Biology Book and use the information in Chapter 5](#) on structure and function of plasma membranes to answer the following questions:

1. Briefly describe the fluid mosaic model of plasma membranes..

View figure 5.2 to answer questions 2 through 5 below:

2. How are phospholipids arranged in the plasma membrane, and how might this structure support the function of the membrane?

3. Describe differences you see between protein channels, integral membrane proteins, and peripheral membrane proteins? How do these differences impact their functions?

4. What differences do you see between glycoproteins and glycolipids? What are their functions?

5. Where is cholesterol (a lipid based steroid) found in the membrane and what is its role?

6. How do viruses utilize the structure of cell membranes to infect cells?

7. How does understanding the structure of cell membranes help prevent tissue rejection in organ transplant patients?

8. How does membrane fluidity support the function of plasma membranes? Be specific.

9. Explain why the field of immunology requires in depth understanding of plasma membranes.