

Vierlong Proteins

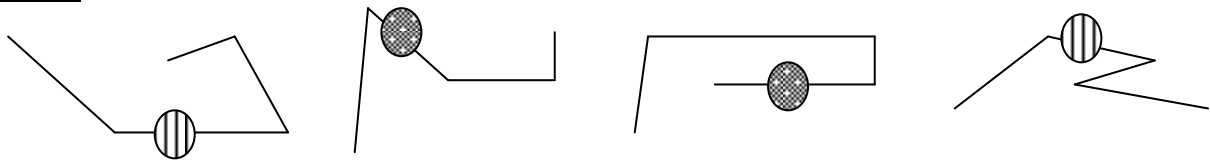
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Information: The Vierlong Class of Proteins

As you may already know, proteins have differing functions based on their structures. A new class of proteins has recently been studied. The class is called the “Vierlong” class. We will be looking at several crude diagrams of the proteins.

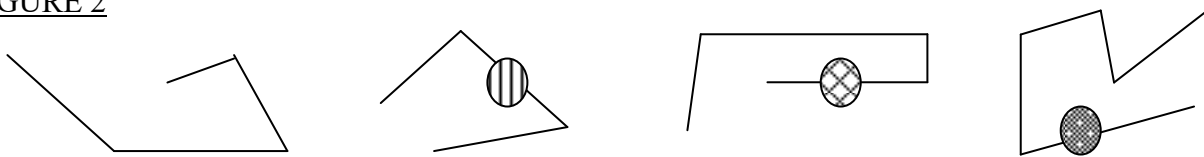
All of the following proteins fit into the Vierlong class of proteins.

FIGURE 1



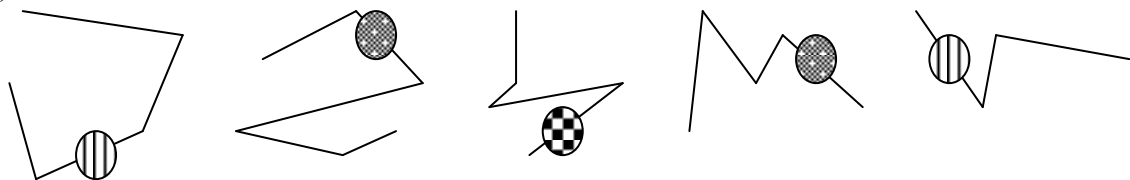
None of the following proteins fit into the Vierlong class of proteins.

FIGURE 2

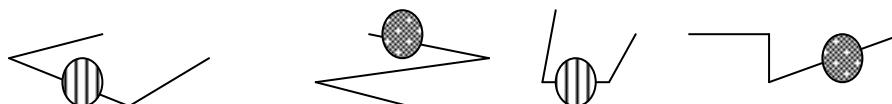


Critical Thinking Questions

1. What structural characteristics must a protein have for it to be classified as “Vierlong”?
2. Which of the following would be classified as a Vierlong protein? (There may be more than one.)



3. The following proteins are “Dreilong” proteins. The prefix “Drei” is a German word for the number three. “Vier” is also a German word for a number. What number?



4. It wasn't long before scientists discovered that there are two different sub-groups within the Vierlong class of proteins—the S-Vierlong and the D-Vierlong groups. The following is a D-Vierlong protein. Given this information, circle all of the S-Vierlong proteins and put a box around all of the D-Vierlong proteins in Figure 1.

