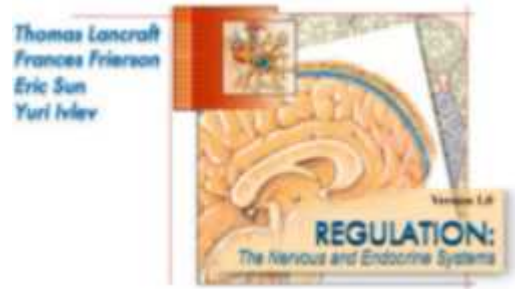


**Animation:**  
**Mechanisms of Hormone Action**



**Directions:**

- Click the "Contents" button,
- Open the Endocrine System File,
- Click Animations,
- Click Mechanisms of Hormone Action

1. Most physiological systems are located in specific locations in the body. The endocrine system does not fit this description. Explain why not.

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2. Hormone molecules are produced by endocrine cells and released into the bloodstream. Describe what must happen for hormone molecules to affect target cells.

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3. Hormones are classified as either lipid soluble or lipid insoluble. Name examples of each.

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4. Where are the lipid soluble hormone receptors located? How do lipid soluble hormone molecules get there?

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5. Describe the function of the *hormone-receptor complex*.

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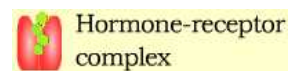
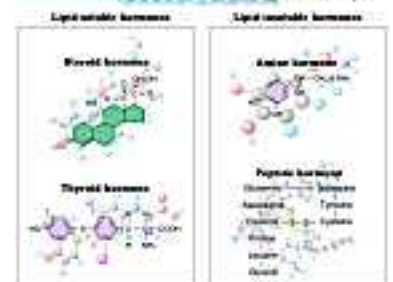
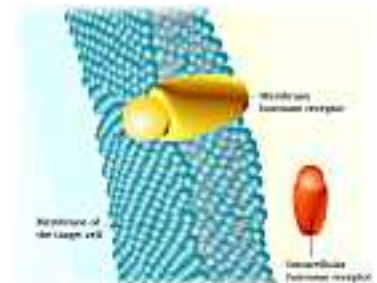
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6. What is the function of the *mRNA*?

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7. How do proteins affect cellular activity? \_\_\_\_\_

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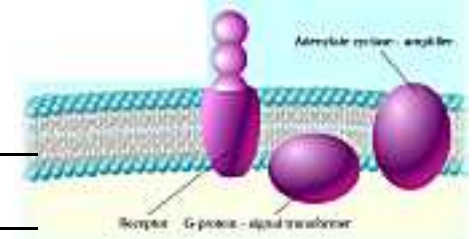
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8. *Lipid insoluble hormone* molecules cannot penetrate cellular plasma membranes like lipid soluble hormones can. How then, do they affect cellular activity?

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9. A series of events occurs following hormone binding to the receptor on the plasma membrane. Describe this sequence of events.

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