

MOLECULAR BIOLOGY OF THE CELL, SIXTH EDITION

CHAPTER 15: CELL SIGNALING

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1. A cell expresses a transmembrane protein that is cleaved at the plasma membrane to release an extracellular fragment. The fragment binds to receptor proteins on nearby cells and activates signaling pathways resulting in altered gene expression patterns in the cells. What form of intercellular signaling does this represent?

- A. Contact-dependent signaling
- B. Paracrine signaling
- C. Synaptic signaling
- D. Endocrine signaling
- E. Autocrine signaling

2. Which of the following is NOT a common second messenger in cell signaling?

- A. Ca^{2+}
- B. Cyclic adenosine monophosphate
- C. Diacylglycerol
- D. Tyrosine
- E. Inositol trisphosphate

3. Which of the following events normally activates a GTP-binding protein?

- A. GTP hydrolysis by the protein
- B. Activation of an upstream GTPase-activating protein
- C. Activation of an upstream guanine nucleotide exchange factor
- D. Phosphorylation of a bound GDP molecule by an upstream phosphorylase
- E. P_i release after GTP hydrolysis

4. In which of the following schematic drawings of signaling pathways does the activation of the receptor lead to gene expression? Activating and inhibitory steps are indicated with (+) and (-), respectively.

A.



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