

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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Victor M. Corman



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The Fabulous Future? Morton Schapiro, Gary Saul Morson, 2015-05-05 Will the future be one of economic expansion greater tolerance liberating inventions and longer happier lives Or do we face economic stagnation declining quality of life and a technologically enhanced totalitarianism worse than any yet seen The Fabulous Future America and the World in 2040 draws its inspiration from a more optimistic time and tome The Fabulous Future America in 1980 in which Fortune magazine celebrated its twenty fifth anniversary by publishing the predictions of thought leaders of its time In the present volume the world s leading specialists from diverse fields project developments in their areas of expertise from religion and the media to the environment and nanotechnology Will we be happier and what exactly does happiness have to do with our economic future Where is higher education heading and how should it develop And what is the future of prediction itself These exciting essays provoke sharper questions reflect unexpectedly on one another and testify to our present anxieties about the surprising world to come *Introduction to Cell Mechanics and Mechanobiology* Hayden Huang, Ronald Kwon, 2012-11-16

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book presents a clear and precise discussion of the biochemistry of eukaryotic cells particularly those of mammalian tissues relates biochemical events at a cellular level to the subsequent physiological processes in the whole animal and cites examples of abnormal biochemical processes in human disease The organization and content are tied together to provide

students with the complete picture of biochemistry and how it relates to human diseases Essentials of Microbiology for Nurses, 1st Edition - Ebook I DR. KANNAN, 2016-07-25 This book primarily fulfils the content needs of first year B Sc nursing students but also helps the nurses in profession to hone their microbiology knowledge Containing all the vital aspects of infection control practices and the details of various microorganisms suggested by the WHO it serves as the best content resource for the nurses who need information on infection control Entire microbiology syllabus of the Indian Nursing Council covered All microbiology information needed for the undergraduate nursing students put in a systematic manner Concepts explained in lucid language for easy understanding by nursing students Content presented as bulleted lists for quick grasp of the subject matter Appropriate WHO guidelines and recommendations on infection control included Multicolour photographs illustrations are used to explain complex microbiology concepts Resources in Education , 1996 Police Operations

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