

Cells communicate over short distances by using local regulators that target cells in the vicinity of the emitting cell. Find a recent (Within the past 24 months) scientific article dealing with the mechanism of cell signaling to produce a specific response. Include articles from one of the following topics:

- Neurotransmitters
- Plant immune response
- Quorum sensing in bacteria
- Epinephrine stimulation of glycogen breakdown in mammals
- Temperature determination of sex in some vertebrate organisms
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- Morphogens in embryonic development

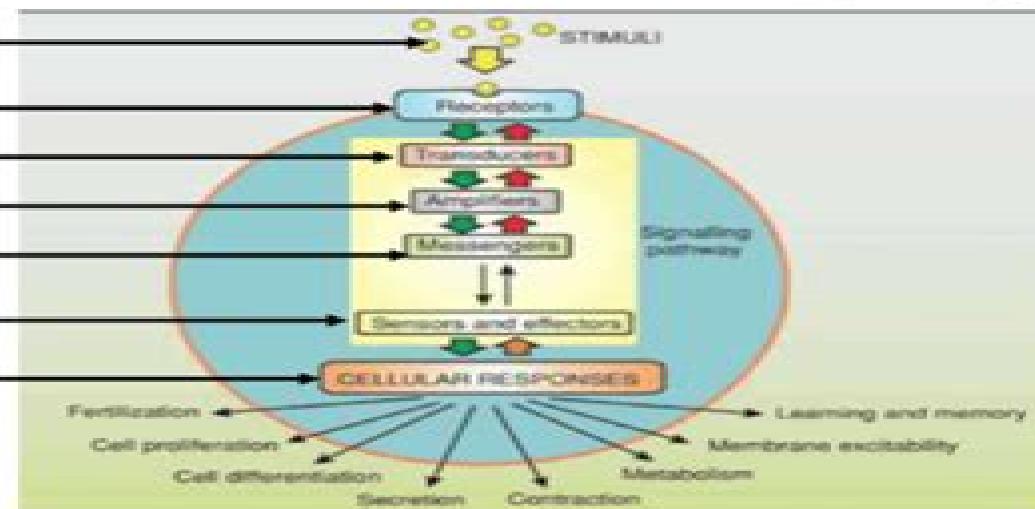
Attach a copy of the article's abstract, along with APA Reference (Title, Journal, Issue, Volume, Author, page #'s)

Present the following:

1. A 1-paragraph summary of article

2. Fill in the below flow chart of the signaling pathway identifying (naming) the specific components (stimuli, receptor, transducer, amplifier, messengers, sensors, effectors, response) in the cell

Article 1



3. Create a diagram for the article indicating how the events in the cell affect the organism as a whole.

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Martha R. Taylor

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Preparing for the Biology AP Exam with Biology Neil A. Campbell, Jane B. Reece, 2004 [AP Biology Study Guide](#) Sundar Nathan, 2009-11

Sundar Nathan received a Bachelor's degree in Electrical Engineering from Anna University, Chennai, India, and a Masters degree in Biomedical Engineering from the University of Texas at Austin. Working for over a year with a team of talented PhDs, MPhil's and MScs from all over the world, Sundar compiled this comprehensive study guide to help students prepare diligently to understand the concepts and crush the AP Bio Test.

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Tamar Aprahamian, Robert Brucker, Sharon A. Wynne, 2017-07-31 Prepare for the AP Biology Exam with the updated study guide from XAMonline. This comprehensive study guide has been formatted to correspond to the four Big Ideas described by the College Board: evolution, energy, information and systems. Expert knowledge and real-world scientific experience allowed the authors to not only include the necessary review of the basic content but also the intertwined fundamental ideas underlying biology. The full-length practice tests have been designed to focus on complex questions that require critical thinking and problem solving, similar to those on the actual AP Biology exam. Highlights include 2 full-length practice tests and answer keys, end-of-chapter practice quizzes and answer keys, explanations for answers to all multiple-choice and free-response questions, end-of-chapter summary and list of keywords for important concepts, illustrations throughout to give additional support to the learning experience.

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