

## Section 13-3 Cell Transformation (pages 327-329)

### Key Concepts

- What happens during cell transformation?
- How can you tell if a transformation experiment has been successful?

### Introduction (page 327)

1. What occurs during transformation? \_\_\_\_\_

2. Is the following sentence true or false? Griffith's extract of heat-killed bacteria contained DNA fragments. \_\_\_\_\_

### Transforming Bacteria (pages 327-328)

3. Complete the flowchart to show what happens in transforming bacteria.

Foreign DNA is joined to a(are) \_\_\_\_\_, which is a small, circular DNA molecule found naturally in some bacteria.



Recombinant plasmids are mixed with bacterial cells. Some bacterial cells take in the recombinant DNA by the process of \_\_\_\_\_.



The culture is treated with a(are) \_\_\_\_\_, a compound that kills bacteria.



Only cells that have been transformed survive, because only they carry a(are) \_\_\_\_\_ for antibiotic resistance.

4. Give three reasons why a plasmid is useful for DNA transfer.

a. \_\_\_\_\_

b. \_\_\_\_\_

c. \_\_\_\_\_

### Transforming Plant Cells (pages 328-329)

5. When researchers transform plant cells using a bacterium that causes plant tumors, how do researchers prevent plant tumors from forming in the transformed cells?

## 13 3 Cell Transformation Answer Key

**Puja Mehta**

### 13 3 Cell Transformation Answer Key:

**Index Medicus**, 2001 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings Biomedical Engineering Handbook 2 Joseph D. Bronzino, 2000-02-15 Sensors, Update 13 Henry Baltes, W. Göpel, Gary K. Fedder, J. Hesse, Jan G. Korvink, 2004 Sensors Update includes information at the cutting edge of sensor research and related topics such as MEMS An overview of highlights in this exciting area is presented that covers current developments in materials design production and application of sensors and other micro and nanosystems Volume 13 gives you an insight into the modelling and simulation of microdevice self assembly and the alternatives for smart sensor interfaces Fluorescent microspheres for ion sensing are reviewed and from the medical and biosciences sector optical sensor applications catheter sensors microelectronic chips for molecular and cell biology as well as microvalves for bioassays miniature GC systems and micro fuel cells are presented The unique approach makes Sensors Update a valuable reference work for scientists and engineers in industry and at universities to sensors developers distributors and users All volumes of Sensors Update are also available online at our Wiley InterScience site <http://www3.interscience.wiley.com/cgi-bin/jhome/78505815> Environmental Health Perspectives, 1993 **Polymer Preprints, Japan**, 1990 *Cancer Research*, 2007 Microbiology William Matthai, Creager, Black, 1990 **Annual Meeting** Kōbunshi Gakkai (Japan), *Biology* Teresa Audesirk, Gerald Audesirk, Bruce E. Byers, 2004-06 For students without an Internet connection all questions and review materials from the Companion Website are included in the printed Student Study Companion *SPSJ ... Annual Meeting* Kōbunshi Gakkai (Japan), Kōbunshi Gakkai (Japan), 1990 *Scientific American*, 1888 **Proceedings of the National Academy of Sciences of the United States of America**, 1989 **Study Guide to Accompany Pelczar, Chan, and Krieg: Microbiology** Noel R. Krieg, Michael Joseph Pelczar, 1986 **The Electrical Journal**, 1879 **The Journal of Cell Biology**, 1991 No 2 pt 2 of November issue each year from v 19 1963 47 1970 and v 55 1972 contain the Abstracts of papers presented at the Annual Meeting of the American Society for Cell Biology 3d 1963 10th 1970 and 12th 1972 The Current Digest of the Post-Soviet Press, 2006 *VETs, Complete Preparation for the Veterinary Entrance Tests*, 2000 *Journal American Chemical Society*, 2004 *Conference Papers Index*, 1980 Monthly Papers presented at recent meeting held all over the world by scientific technical engineering and medical groups Sources are meeting programs and abstract publications as well as questionnaires Arranged under 17 subject sections 7 of direct interest to the life scientist Full programs of meetings listed under sections Entry gives citation number paper title name mailing address and any ordering number assigned Quarterly and annual indexes to subjects authors and programs not available in monthly issues **International Books in Print**, 1986

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