



# Week 3 Manipulating DNA

⚙ Status Done

## DNA Ligase

- Most commonly — T4 DNA Ligase (T4 phage)
- Cofactor — ATP
  - forms enzyme-AMP intermediate bound to the 5' phosphate
  - absolute requirement for **5' terminal phosphate**
  - In vivo function (37°) — seals single strand nicks at optimum efficiency

But....

- Blunt Ligations
  - sticky ends stick better at 12~16c, so we compromise.
  - At room temperature — takes several hours (less efficient)

## Alkaline Phosphatase

- Removes 5' (terminal) phosphate groups from DNA/ RNA
  - Prevents self-ligation (5' phosphate required for ligation)
    - Why? — bacteria has self-replicating plasmid, and has the tendency to ligate back to it's own strand.

## T4 Polynucleotide kinase

- Adds a phosphate to the 5' end of DNA/ RNA
  - Reverses effects of Alkaline Phosphatase

# Manipulating Dna Answer Key

**Geoffrey L. Zubay**



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Biology Joseph S. Levine, Kenneth R. Miller, 1998

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Rosenberg, Ralph Landau, 1986-01-01 This volume provides a state of the art review of the relationship between technology and economic growth Many of the 42 chapters discuss the political and corporate decisions for what one author calls a Competitiveness Policy As contributor John A Young states Technology is our strongest advantage in world competition Yet we do not capitalize on our preeminent position and other countries are rapidly closing the gap This lively volume provides many fresh insights including two unusually balanced and illuminating discussions of Japan Science noted **Eco Crime and Genetically Modified Food** Reece Walters, 2010-10-04 The GM debate has been ongoing for over a decade yet it has been contained in the scientific world and presented in technical terms Eco Crime and Genetically Modified Food brings the debates about GM food into the social and criminological arena This book highlights the criminal and harmful actions of state and corporate officials It concludes that corporate and political corruption uncertain science bitter public opposition growing farmer concern and bankruptcy irreversible damage to biodiversity corporate monopolies and exploitation disregard for social and cultural practices devastation of small scale and local agricultural economies imminent threats to organics weak regulation and widespread political and biotech mistrust do not provide the bases for advancing and progressing GM foods into the next decade Yet with the backing of the WTO the US and UK Governments march on but at what cost to future generations Study Guide to Accompany Principles of Genetics, 3rd Edition D. Peter Snustad, Harold James Price, Michael J. Simmons, 2002-09-09 High quality illustrations with stepped out art to help readers visualize complex processes Human genetics and the role of the geneticist highlighted throughout Two new features in each chapter introductory Key Questions and closing Basic Exercises *Microelectronics Monitor*, 1995 *Metal--DNA Chemistry* Thomas D. Tullius, 1989 The chemistry of metals is providing new insights into DNA chemistry making it necessary for scientists in this emerging interdisciplinary research to be able to understand work in both fields This new volume provides an examination of the application of metal chemistry to molecular biology as well as a review of recent research results Its 11 chapters provide broad coverage of such topics as the development and use of metal complexes as tools in molecular biology the involvement of metal ions in genetic regulation and the importance of metal based drugs in the treatment of cancer Micro-electronics Monitor, 1991 **Biology** Cecie Starr, John Alcock, 1991 **Biochemistry** Geoffrey L. Zubay, 1993 *Human Biology* Craig H. Heller, 1999 *Biology* Starr, Cecie Starr, 1993 This paperback gives instructors the option of purchasing a shorter book covering selected topics Biology A Human Emphasis covers Part I Cells Part II Genetics Part VI Animal Systems Chapter 39 Population Ecology and Chapter 43 Human Impact on the Biosphere This book contains all front matter with a customized table of contents and back matter from Biology Concepts and Applications Also all the ancillaries available for Biology Concepts and Applications are available for this version Bacterial Genetics and Genomics Lori Snyder, Lori A.S. Snyder, 2024-04-29 Understanding of bacterial genetics and genomics is fundamental to understanding bacteria and higher organisms as well Novel insights in the fields of genetics and genomics are challenging the once clear borders between the

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