

CELL BIO
STUDY GUIDE EXAM 2

Chapter 7: The Central Dogma: DNA → RNA → protein

1. DNA → RNA is called transcription: has 4 steps: Binding, Initiation, Elongation, Termination

2. Transcription in Eukaryotes:

- Have 3 polymerase (meanwhile prokaryotes only have 1): RNA polymerase II is most popular being used.
- Lots of different "factor" involved
- Occur in the nucleus (meanwhile prokaryotes occur in cytoplasm)

3. RNA processing:

- In Prokaryotes: always ready to be translate
- In Eukaryotes: initial product is called "pre-mRNA".
 - o Pre-mRNA structure:
 - 5'CAP structure
 - Poly-A tail added
 - Splicing of coding sequence together (exons, introns)
 - o RNA processing Enzymes are on the RNA polymerase

4. The 5' CAP = 7-methylguanosine (7-MG)

- Protect the end of the mRNA from degradation
- Is required for translation of the mRNA

5. Poly-A tail = a long run of AMPs added to the 3' end of the pre-mRNA

6. Most eukaryotic genes containing blocks of coding sequence (exons) and non-coding sequence (introns) (intron = intervening sequence)

- No introns in bacteria genes, but most eukaryotic genes contain introns
- Human b-globin gene has 3 introns, human factor 8 gene has 26 introns

7. Both exons and introns are present in the pre-RNA transcript, but the introns are removed by RNA splicing.

8. The Lariat model of intron splicing (pic)

9. snRNP and Spliceosomes cut out introns and join exons together

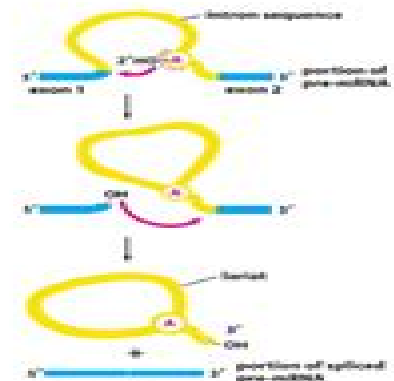


Figure 7.10 RNA Splicing: The Lariat Model (© Garland Science 2016)

Bio Study Guide The Working Cell

Christian Drosten



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Table of Contents Bio Study Guide The Working Cell

1. Understanding the eBook Bio Study Guide The Working Cell
 - The Rise of Digital Reading Bio Study Guide The Working Cell
 - Advantages of eBooks Over Traditional Books
2. Identifying Bio Study Guide The Working Cell
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Bio Study Guide The Working Cell
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bio Study Guide The Working Cell
 - Personalized Recommendations
 - Bio Study Guide The Working Cell User Reviews and Ratings
 - Bio Study Guide The Working Cell and Bestseller Lists
5. Accessing Bio Study Guide The Working Cell Free and Paid eBooks
 - Bio Study Guide The Working Cell Public Domain eBooks
 - Bio Study Guide The Working Cell eBook Subscription Services
 - Bio Study Guide The Working Cell Budget-Friendly Options

6. Navigating Bio Study Guide The Working Cell eBook Formats
 - ePub, PDF, MOBI, and More
 - Bio Study Guide The Working Cell Compatibility with Devices
 - Bio Study Guide The Working Cell Enhanced eBook Features
7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Bio Study Guide The Working Cell
 - Interactive Elements Bio Study Guide The Working Cell
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bio Study Guide The Working Cell
9. Balancing eBooks and Physical Books Bio Study Guide The Working Cell
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bio Study Guide The Working Cell
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Bio Study Guide The Working Cell
 - Setting Reading Goals Bio Study Guide The Working Cell
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Bio Study Guide The Working Cell
 - Fact-Checking eBook Content of Bio Study Guide The Working Cell
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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