

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

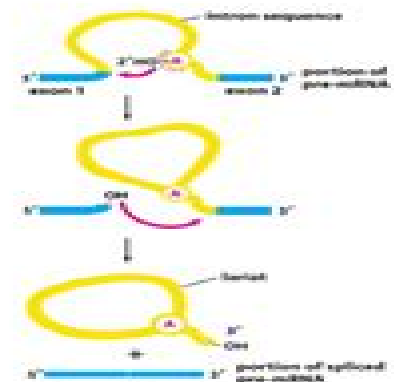


Figure 7.10 RNA Splicing: The Lariat Model (© Garland Science 2015)

# Bio Study Guide The Working Cell

**Huangqi Zhang**



## **Bio Study Guide The Working Cell:**

## Decoding **Bio Study Guide The Working Cell**: Revealing the Captivating Potential of Verbal Expression

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