

## Chapter 14

### RNA molecules and RNA processing

Vocabulary:

Colinearity	exon	intron
Codon	5' Untranslated region	protein coding region
3' Untranslated region	5' cap	poly(A) tail
RNA splicing	alternative splicing	multiple 3' cleavage site
RNA editing	cloverleaf structure	anticodon
Large ribosomal subunit	small ribosomal subunit	5' and 3' splice sites
Branch point	spliceosome	

Reading Assignment: Entire Chapter except for pages 387-389.

- I. Gene Structure
  - a. Introns
  - b. Exons
  - c. Gene concept
- II. Messenger RNA
  - a. Codon
  - b. Regions of mRNA
- III. Processing of pre-mRNA: Bacteria
- IV. Processing of pre-mRNA: Eukaryotes
  - a. 5'Cap
  - b. Poly(A) Tail
  - c. RNA Splicing
  - d. Alternative Processing Pathways
  - e. RNA editing
- V. Transfer RNA
- VI. Ribosomal RNA