#### PT 1: Concept Map of the Central Dogma of ::: Molecular Biology ELONGATION BY 11-3 ULDARIC BEA GRACE REDONA EXPRESSION OF GENES Amino RNA D. acid **Protein Synthesis** IN MUCLEUS - PREPARING FOR EXIT -IN CYTOPLASM TRANSCRIPTION RNA PROCESSING TRANSLATION 1.) + 5' CAP and POLY-A TAIL 1.)INITIATION 1. HNITIATION . The small ribosomal sub-unit binds with the · Transcription factors bind to the RNA. . Before the pre-mRNA exits the nucleus it. exilized and lesitiator tiltua, forming the Polymerase 8 and forms Transcription is first processed and edited. initiation pemplex. Initiation Complex The 5' end of the mRNA receives a 5' fi ATP is append to bind the large ribospenal Transcription Initiation Complex Binds to cap, which is a modified version of a sub-unit to the initiation pamplex, which region in DNA sequence called the Guanine nucleotide / Guanine » **Torms the Translation Initiation Complex** promoter which contains the TATA box. triphosphate I . The initiator 98%A is now in the P-site and the A-site is waiting for the next aminoacyl tRNA. RNA Polymerase II unwinds the DNA. The 3' end on the other hand, receives as The synthesis of the polypeptide chain has strands and begins RNA Synthesis at the Poly-A tail wholh contains 50-250 start point of the template strand. Adenine Nucleotides 2 SELONGATION

# **Central Dogma Of Biology Concept Mapping Answers**

**Albert A Gayle** 

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