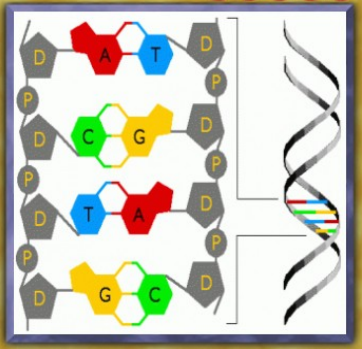
BIOL 1110- 14.2

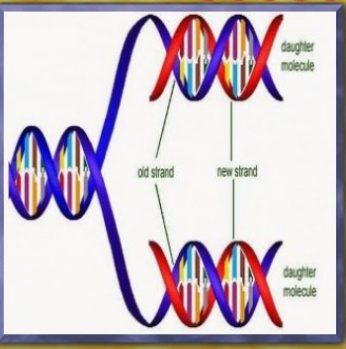


[Ch.14]
phosphodiester bonds the carbons; starts with 5' to 3'

ATK / 1600 DEF / 1500

17258029 ©2017 TRAVIS

BIOL 1110- 14.3



[Ch.14]
Semiconservative DNA Replication

ATK / 1500 DEF / 1450

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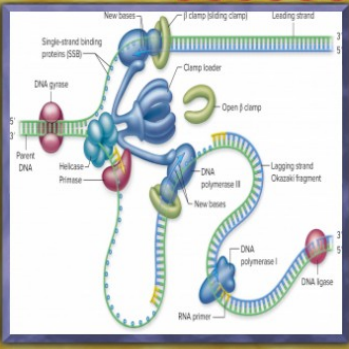
BIOL 1110- 14.4



[Ch.14]
Leading strand is continuous, Lagging is discontinuous, III synthesizes DNA, I erases primers and fills gaps, Helicase unwinds DNA, Primase synthesizes RNA primers, DNA Ligase joins ends of DNA segments and repairs DNA

ATK / 1700 DEF / 1800

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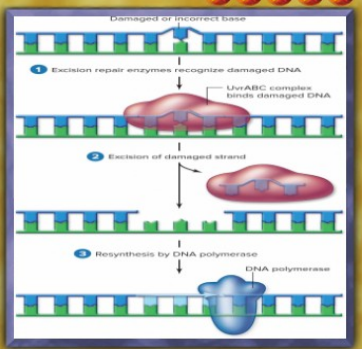
BIOL 1110- 14.6



[Ch.14]
Shown is Nucleotide Excision Repair
Direct photo repair is when UV light makes T's not stick to A's, and an enzyme puts them back together

ATK / 1600 DEF / 1700

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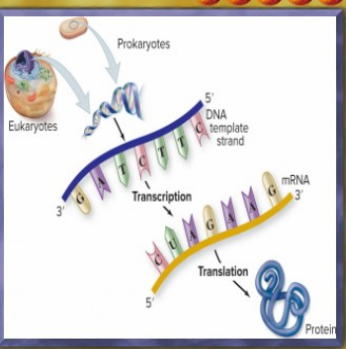
BIOL 1110- 15.1-2



[Ch.15]
The Central Dogma is shown
The genetic code is like a sentence or words for information that can be expressed

ATK / 1500 DEF / 1700

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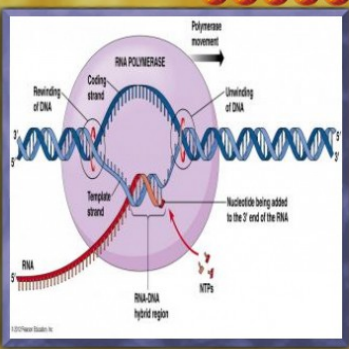
BIOL 1110- 15.3-4



[Ch.15]
DNA Polymerase is for replication (DNA replication), and RNA Polymerase is for transcription (info copying)

ATK / 1600 DEF / 1900

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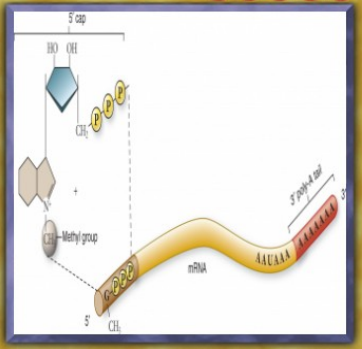
BIOL 1110- 15.4



[Ch.15]
Eukaryotic transcription adds methyl group with G3P at 5' and 3' Poly A tail

ATK / 1700 DEF / 1500

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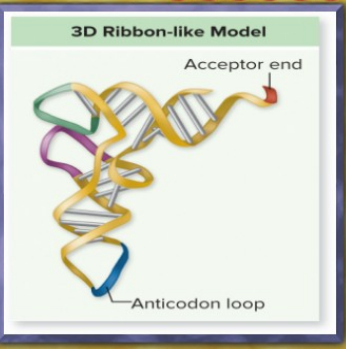
BIOL 1110- 15.6 #1



[Ch.15]
Can be thought of as a clover
Function: Acceptor end is for amino acids and anticodon is for mRNAs, it helps translate RNA

ATK / 1800 DEF / 1900

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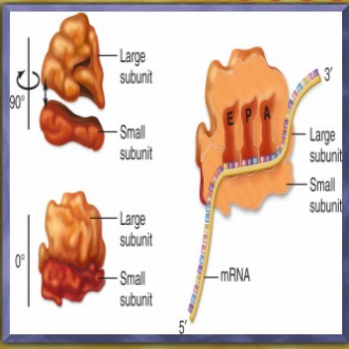
BIOL 1110- 15.6 #2



[Ch.15]

ATK / 1400 DEF / 1300

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BIOL 1110- 15.7
[CH.15]
ATK/2100 DEF/1900
84815326
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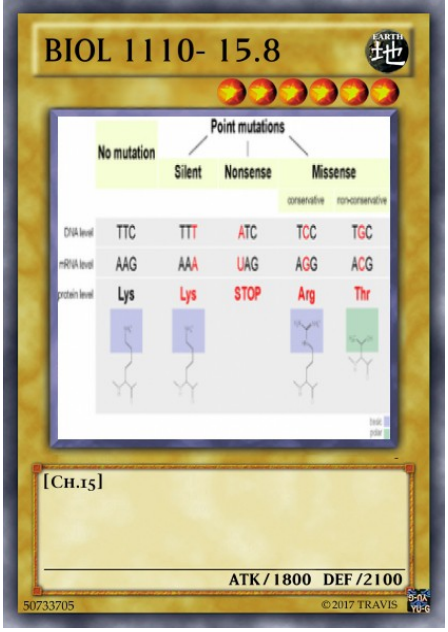
BIOL 1110- 15.8
Point mutations
No mutation
Silent
Nonsense
Missense
conservative
non-conservative
DNA level
mRNA level
protein level
TTC TTT ATC TCC TGC
AAG AAA UAG AGG ACG
Lys Lys STOP Arg Thr
[CH.15]
ATK/1800 DEF/2100
50733705
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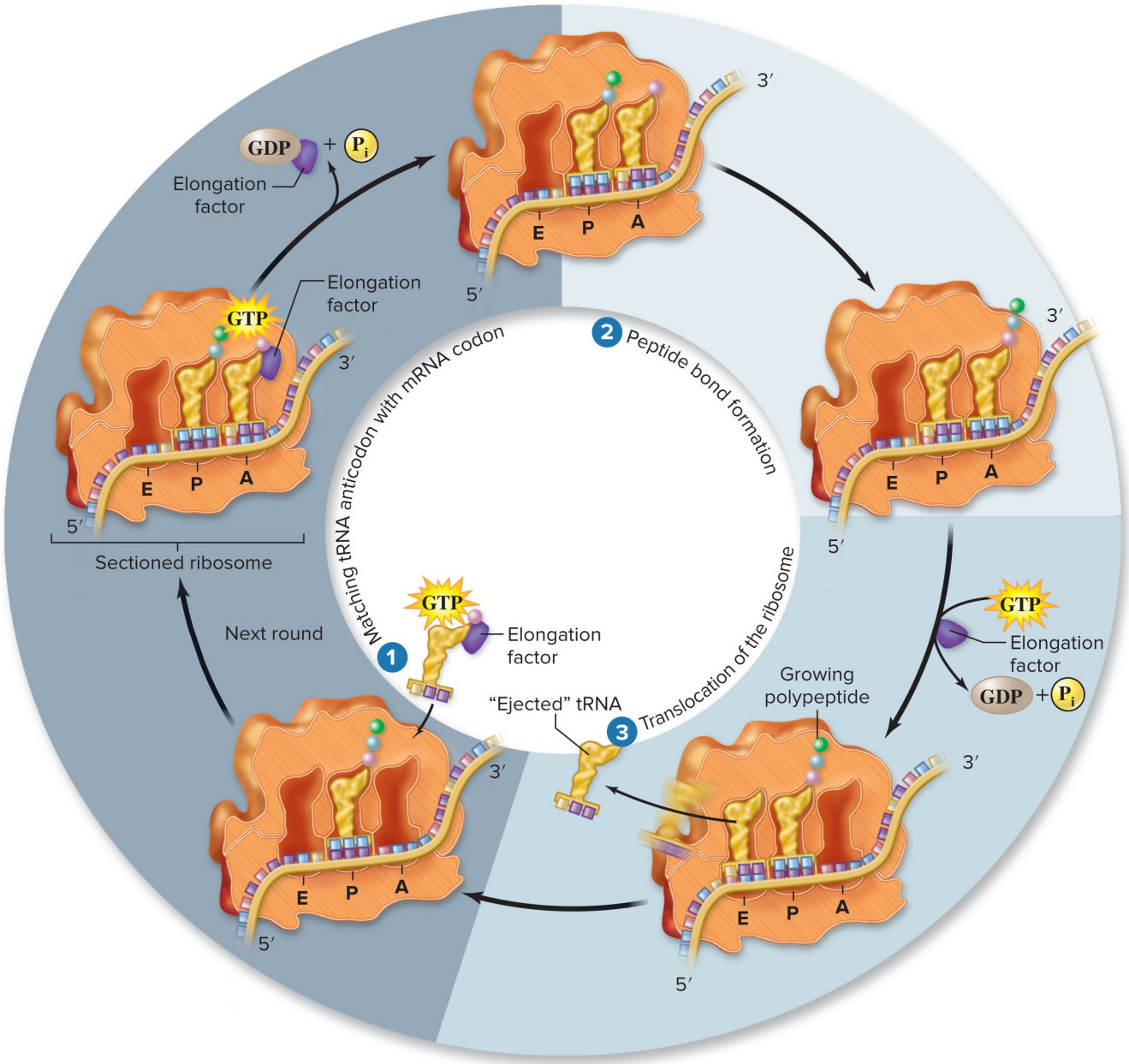
GDP
+ Pi
Elongation factor
3′
E
P
A
5′
GTP
Elongation factor
2 Peptide bond formation
Watching tRNA anticodon with mRNA codon
Translocation of the ribosome
Sectioned ribosome
Next round
1
GTP
Elongation factor
"Ejected" tRNA
3
Growing polypeptide
GTP
Elongation factor
GDP + Pi