Figure 2.12

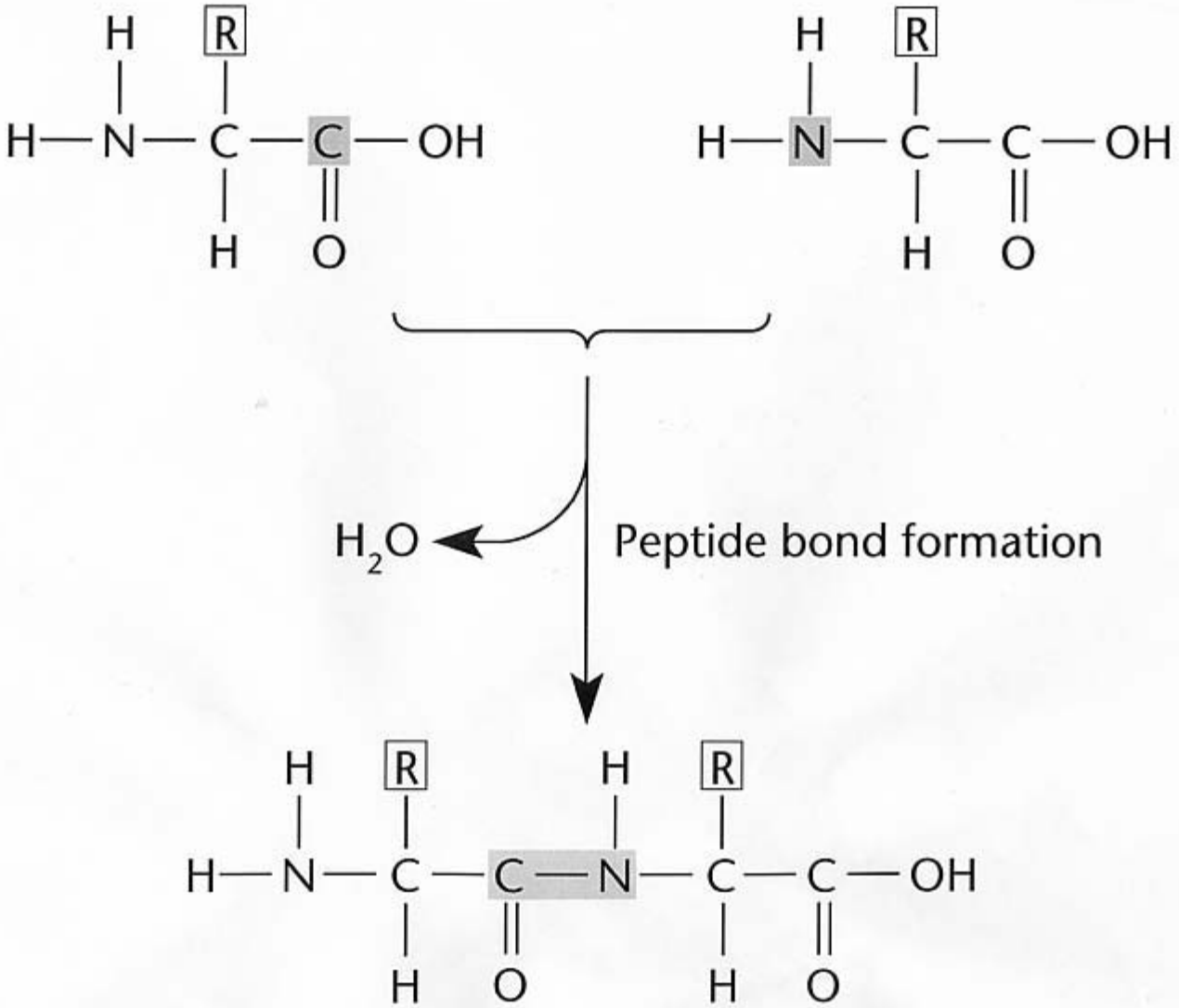

H
R
H—N—C—C—OH
H
O
H
R
H—N—C—C—OH
H
O
H_2O
Peptide bond formation
H
R
H
R
H—N—C—C—N—C—C—OH
H
O
H
O

Figure 2.15

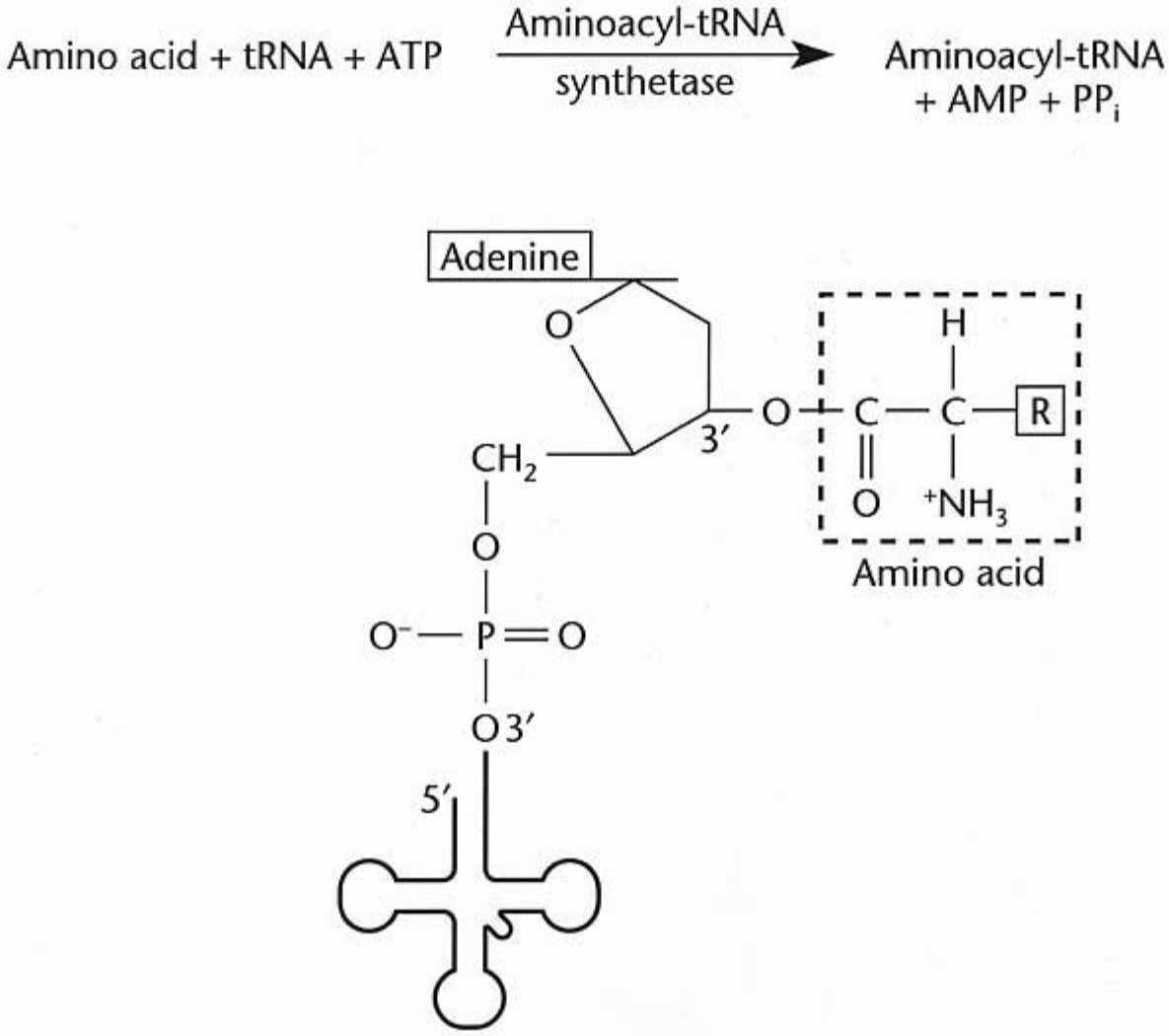

Amino acid + tRNA + ATP
Aminoacyl-tRNA
synthetase
Aminoacyl-tRNA
+ AMP + PP$_i$
Adenine
O
3′
O
C
C
H
R
O
$^+NH_3$
Amino acid
CH_2
O
O^-
P
O
O 3′
5′

Figure 2.17

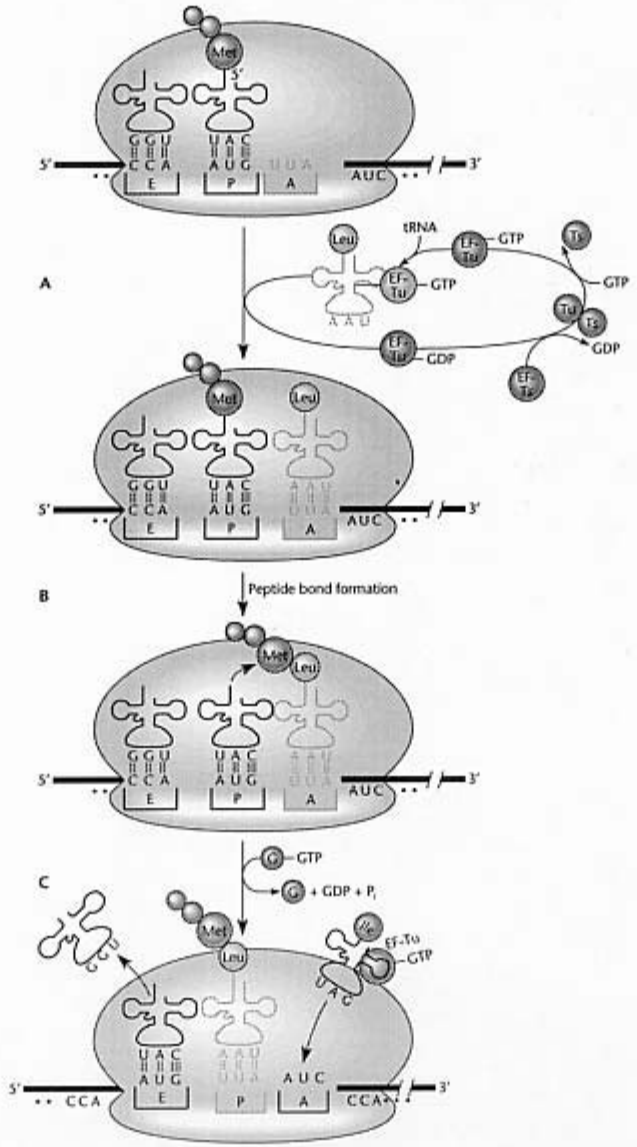

Met
5'
3'
E
P
A
AUC
Leu
tRNA
EF-Tu
GTP
Ts
GDP
A
Peptide bond formation
B
C
+ GDP + P_i
CCA

Figure 2.16

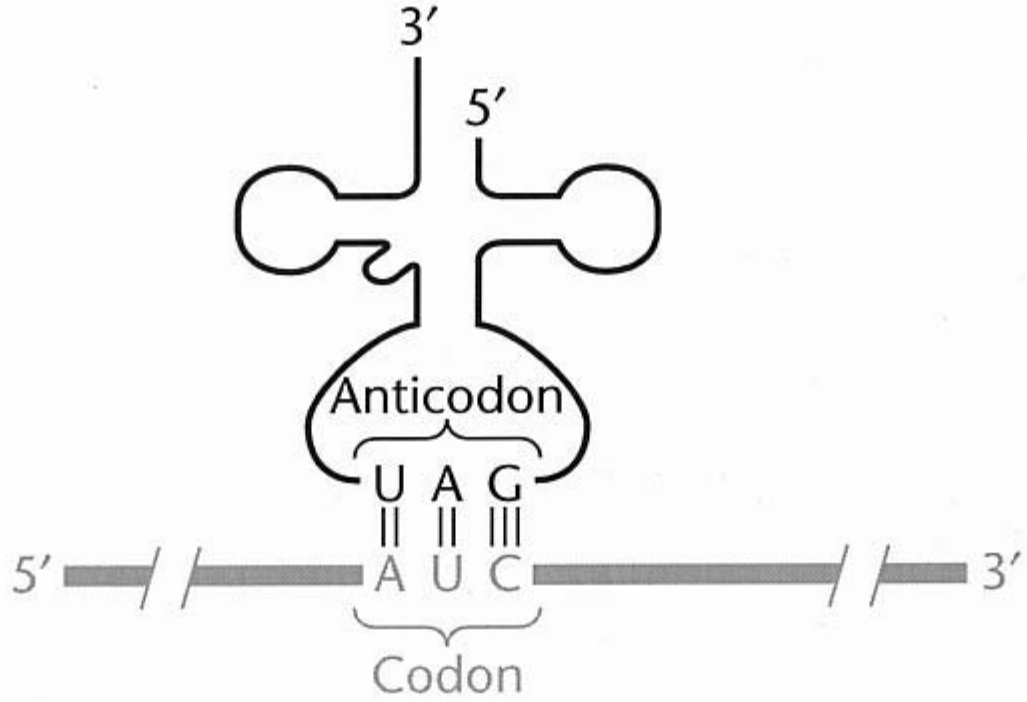
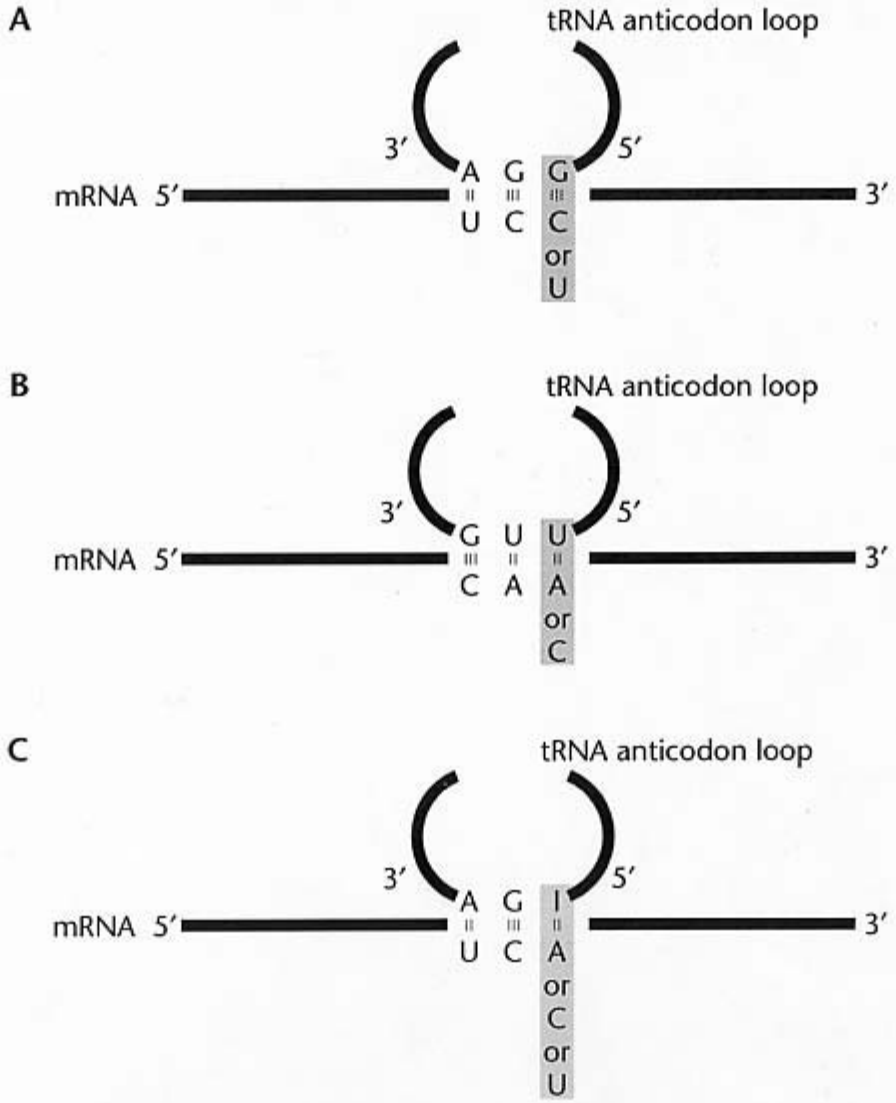


Figure 2.19


A
tRNA anticodon loop
3′
5′
mRNA 5′
A = U
G ≡ C
G ≡ C or U
3′
B
tRNA anticodon loop
3′
5′
mRNA 5′
G ≡ C
U = A
U = A or C
3′
C
tRNA anticodon loop
3′
5′
mRNA 5′
A = U
G ≡ C
I = A or C or U
3′