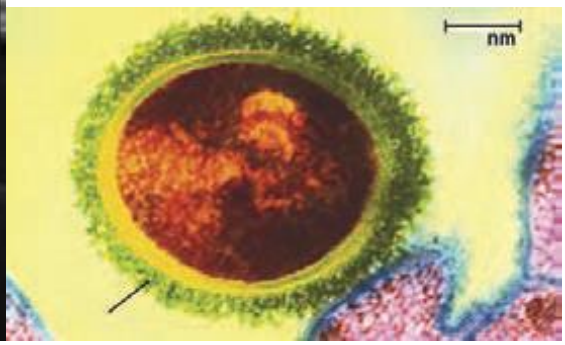
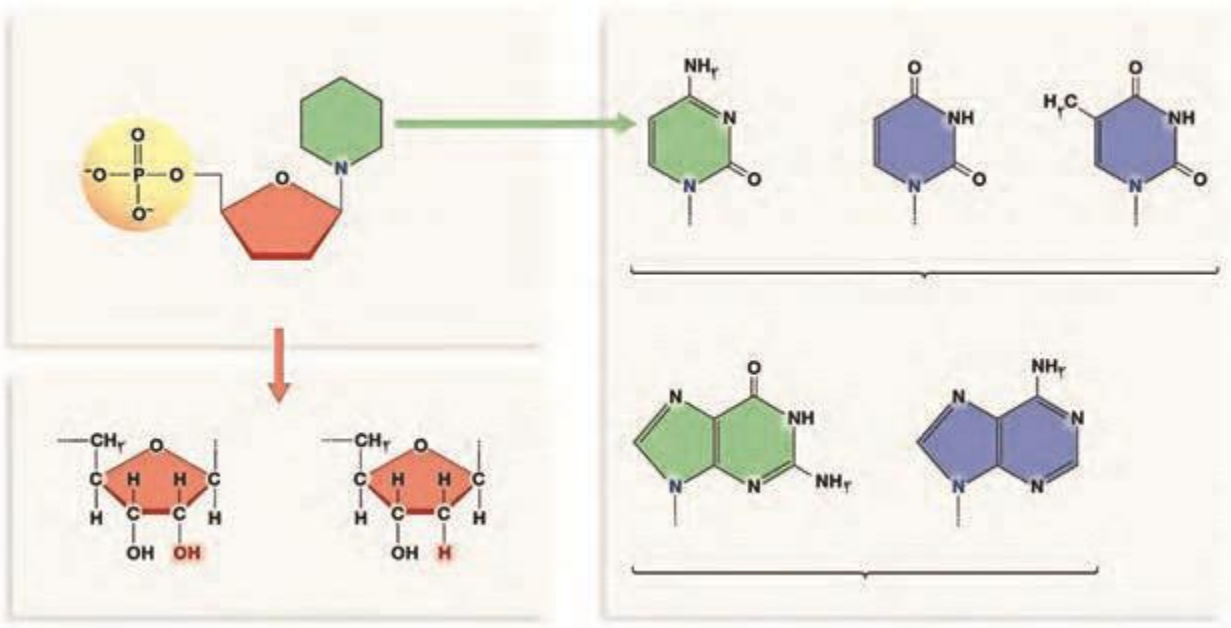
بسم الله الرحمن الرحیم

Biolodge.ir


nm


O
⁻O—P—O
O⁻
O
N
NH₂
N
O
NH
N
O
H₃C
NH
N
O
CH₂
O
H
H
C
C
H
C
C
H
OH
OH
CH₂
O
H
H
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NH
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NH₂
NH₂
N
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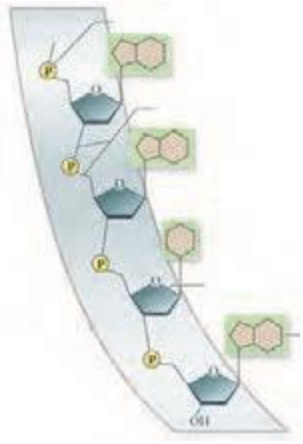
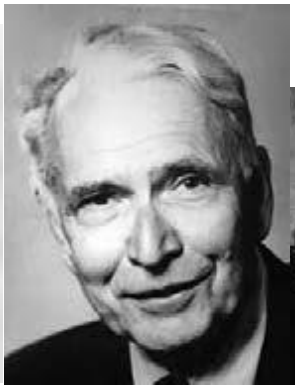
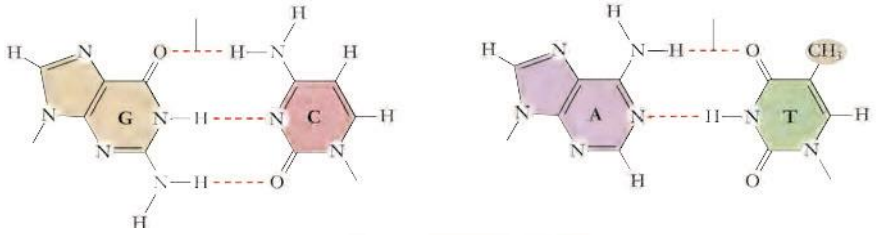
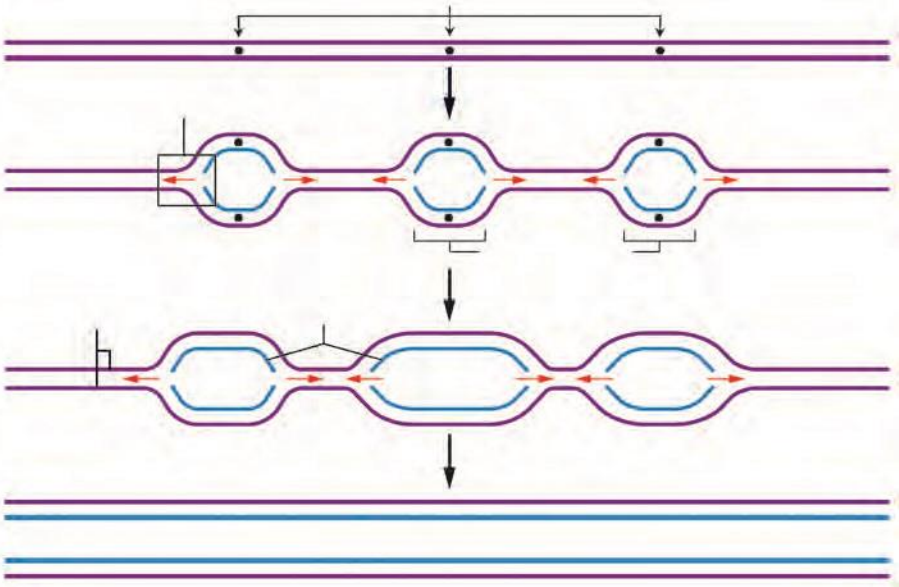
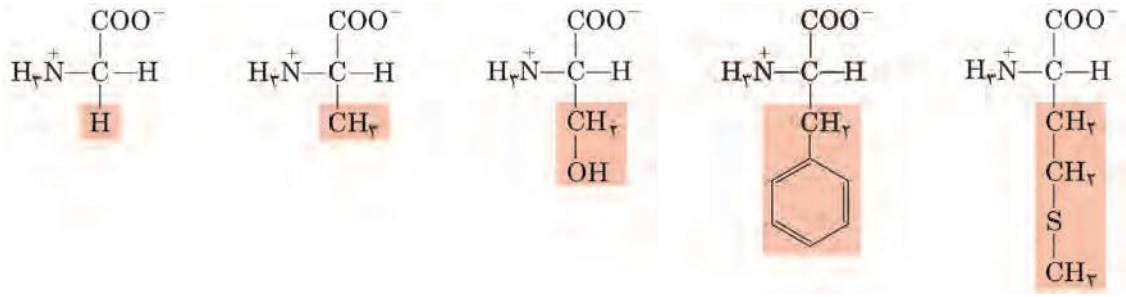
N

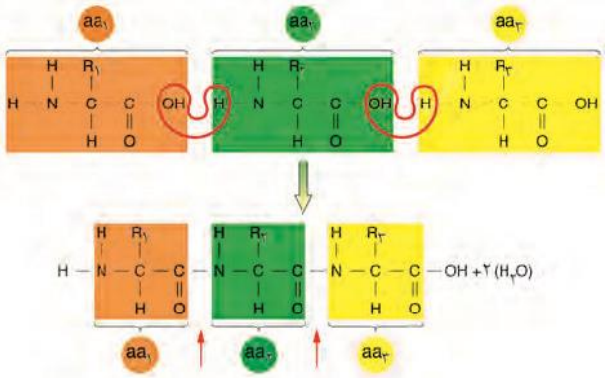


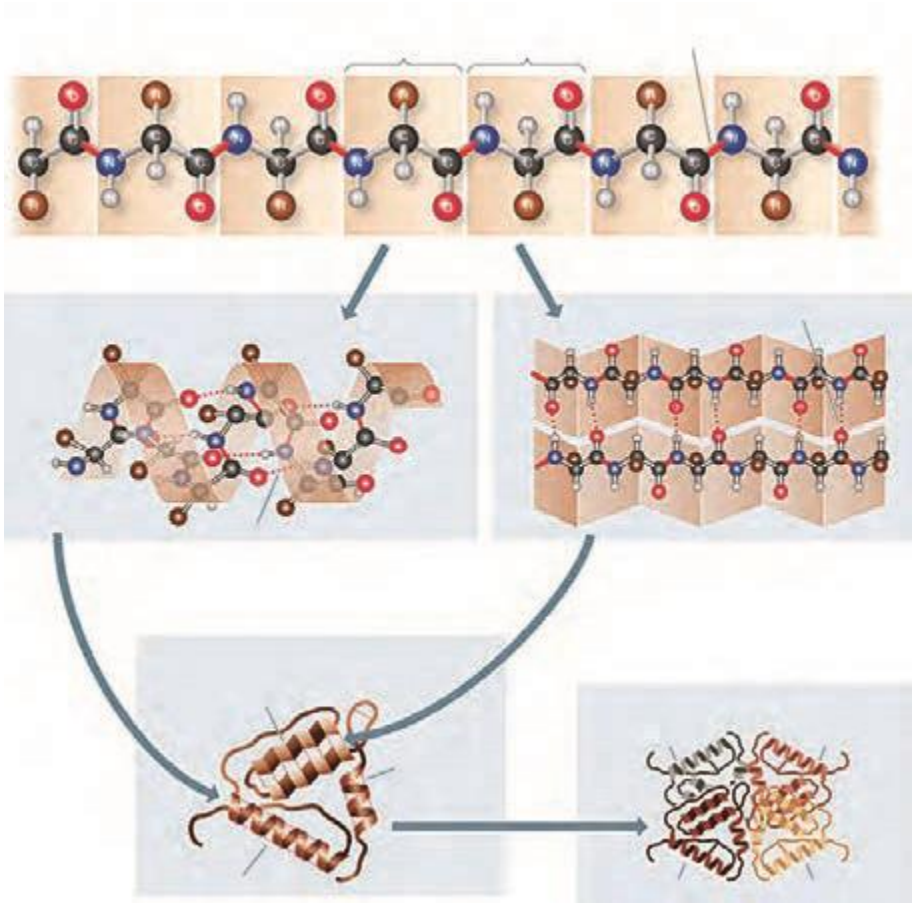


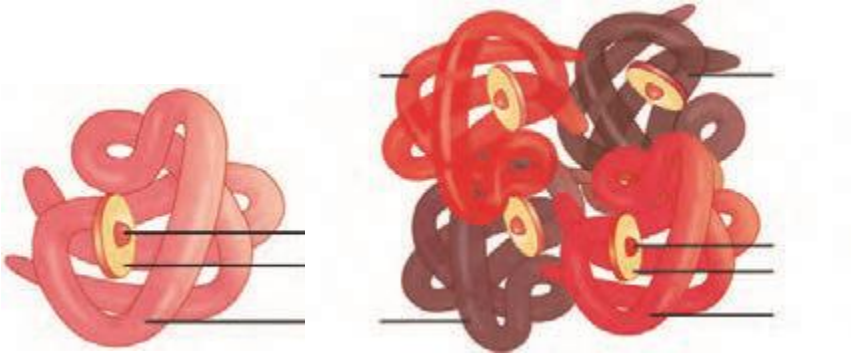

G
C
A
T
CH3

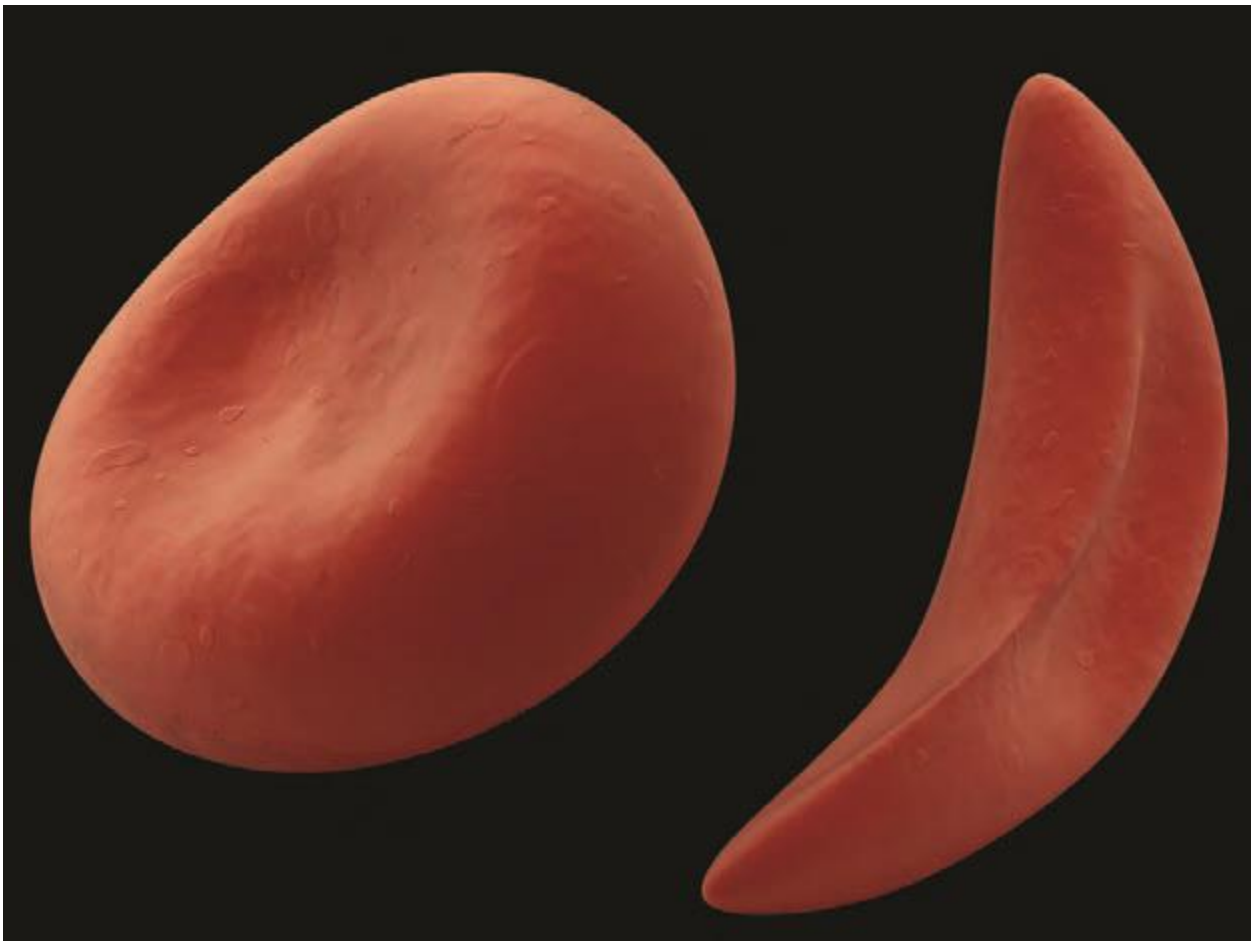


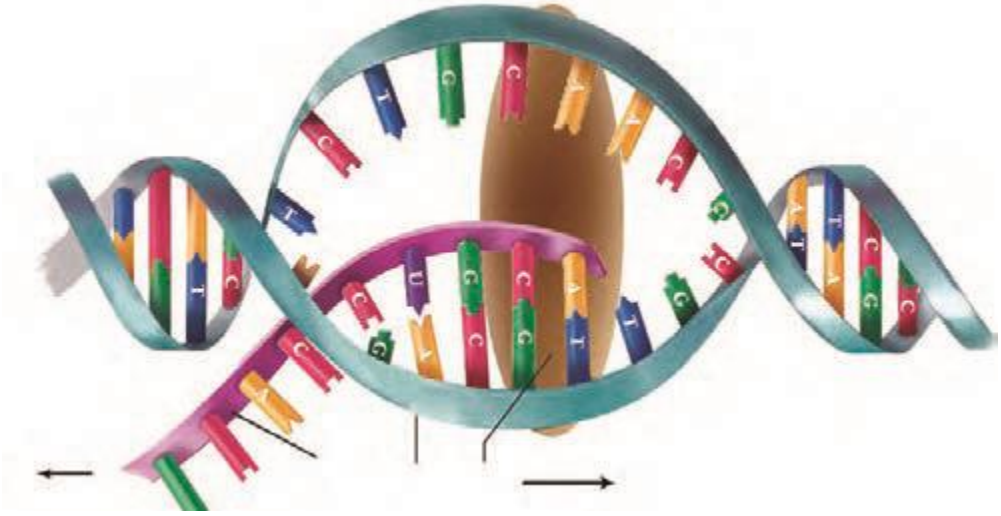


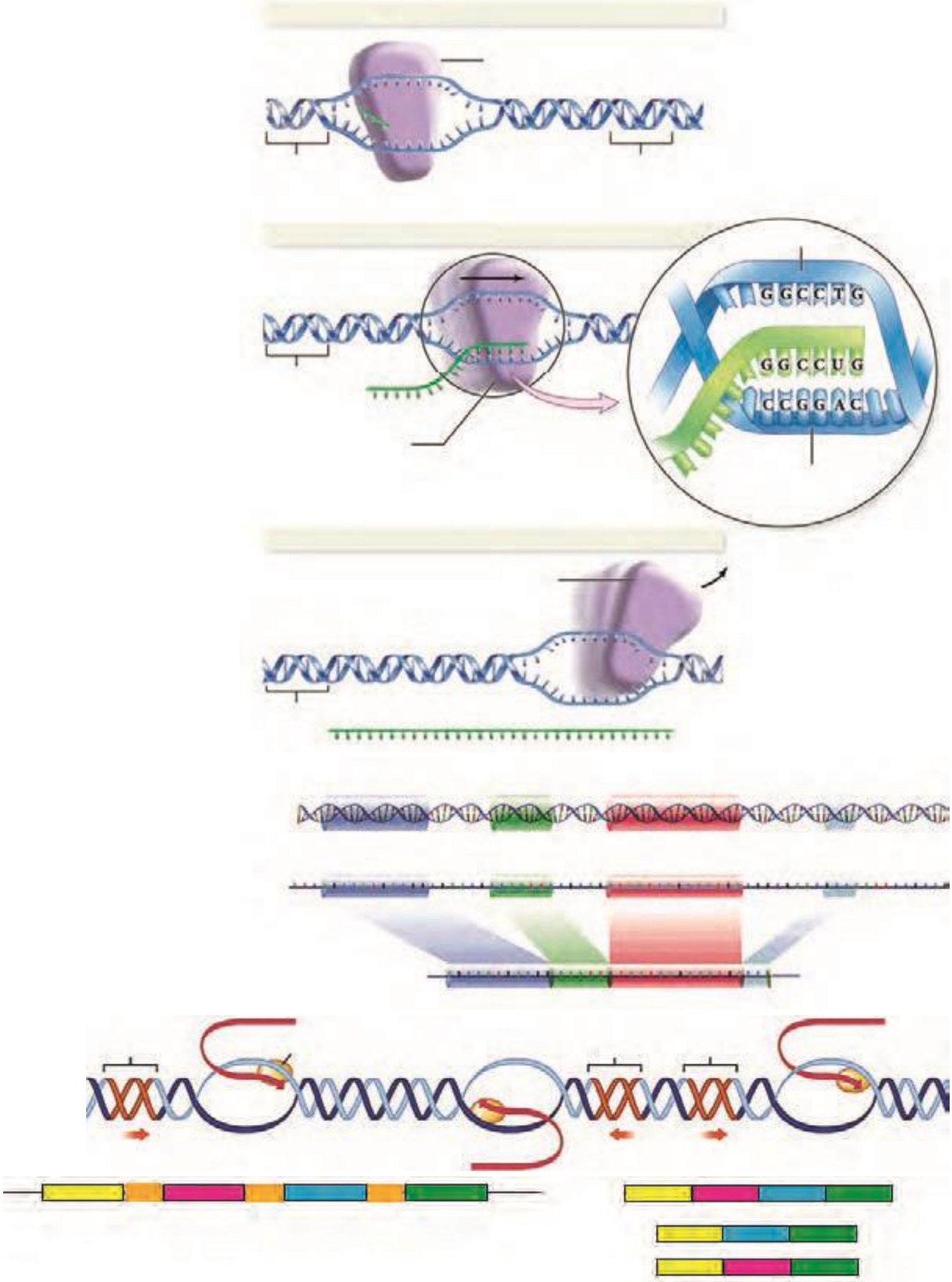

aa۱
aa۲
aa۳
H
N
C
OH
O
H — N — C — C — N — C — C — N — C — C — OH + ۲ (H۲O)







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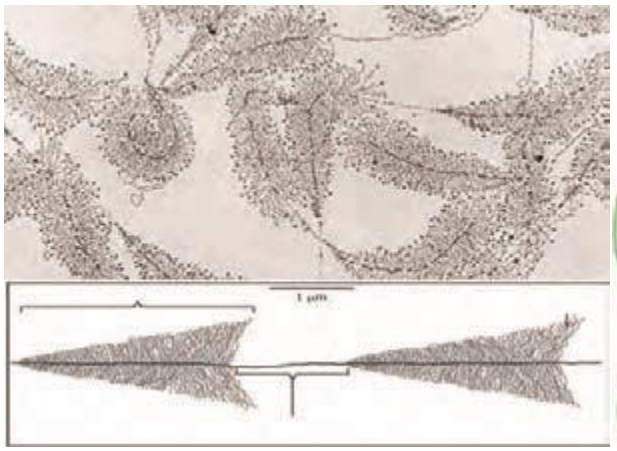
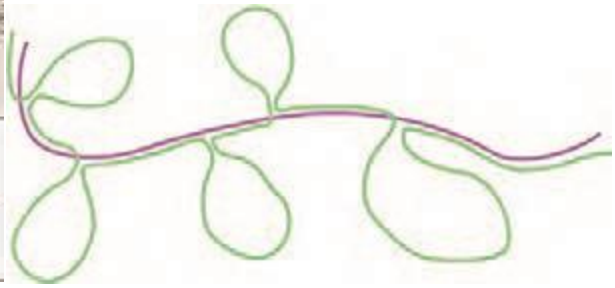
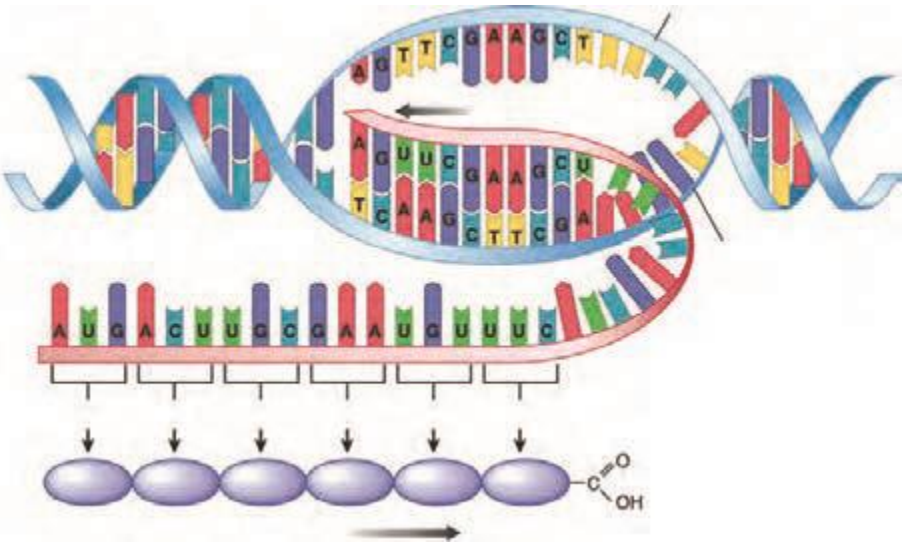
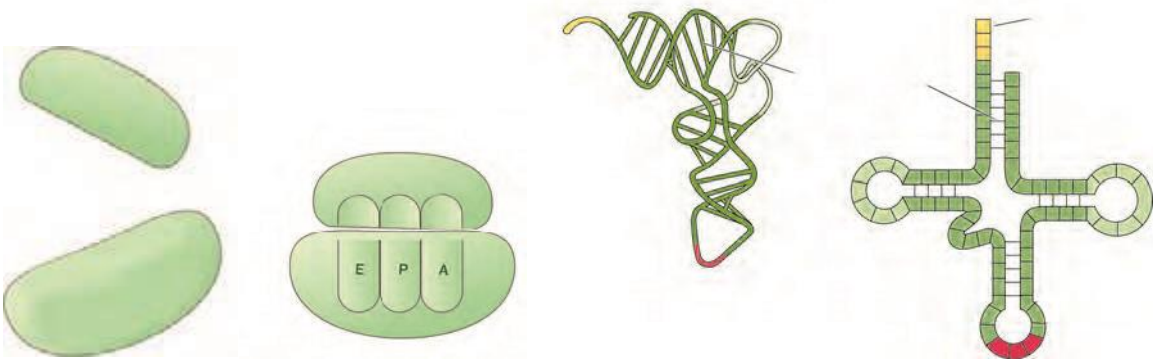
GGCCUG
CCGGAC

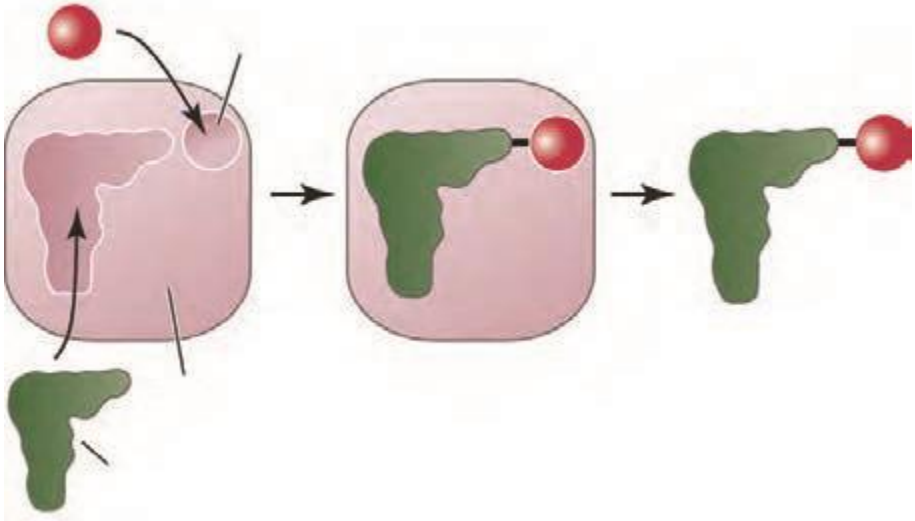


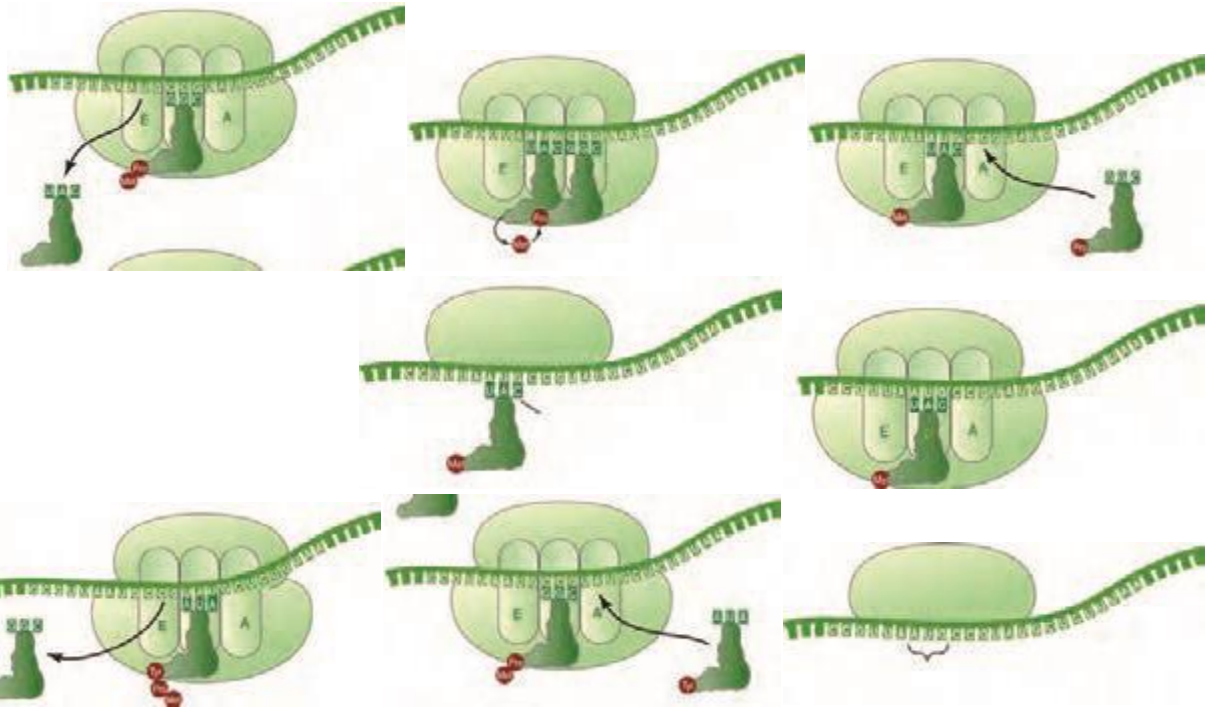


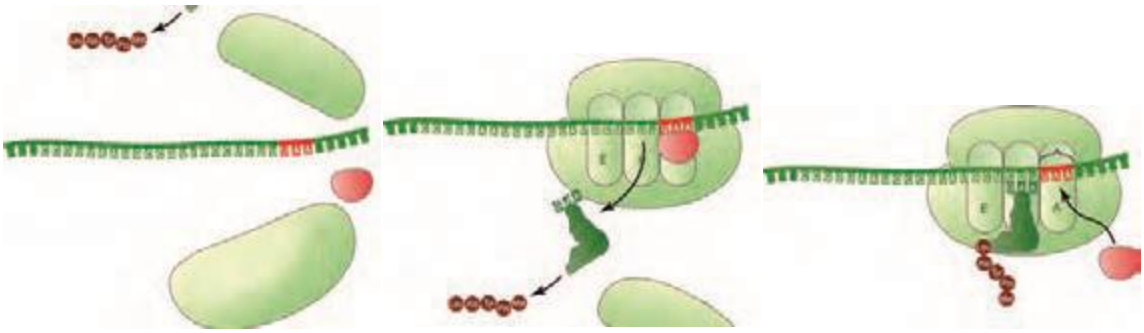


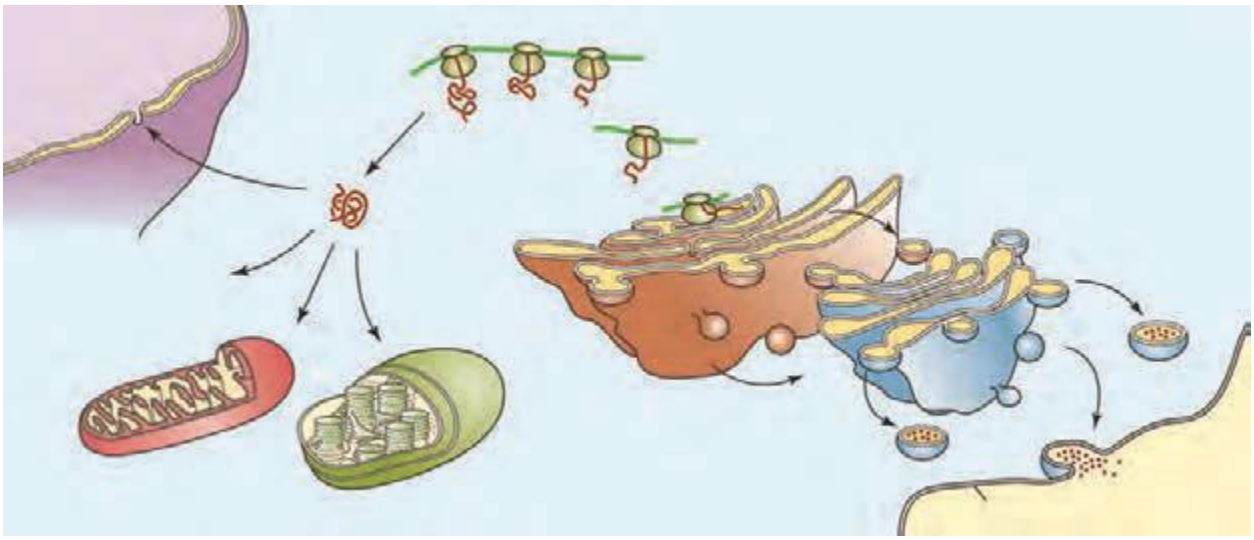
	U	C	A	G	
U	UUU UUC	UCU UCC UCA UCG	UAU UAC	UGU UGC	U C A G
	UUA UUG		UAA UAG	UGA UGG	
C	CUU CUC CUA CUG	CCU CCC CCA CCG	CAU CAC	CGU CGC CGA CGG	U C A G
			CAA CAG		
A	AUU AUC AUA	ACU ACC ACA ACG	AAU AAC	AGU AGC	U C A G
	AUG		AAA AAG	AGA AGG	
G	GUU GUC GUA GUG	GCU GCC GCA GCG	GAU GAC	GGU GGC GGA GGG	U C A G
			GAA GAG		

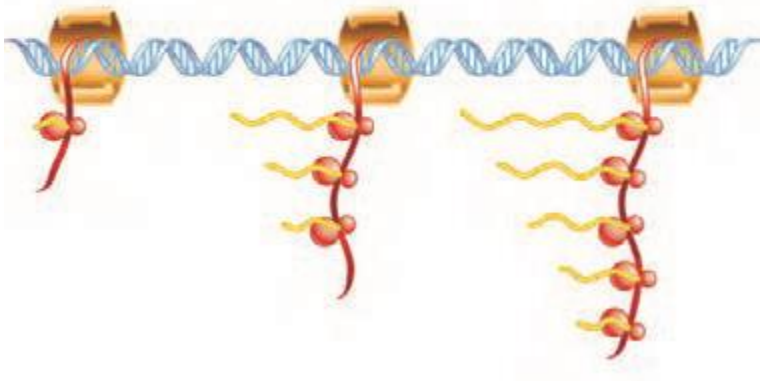

E
P
A

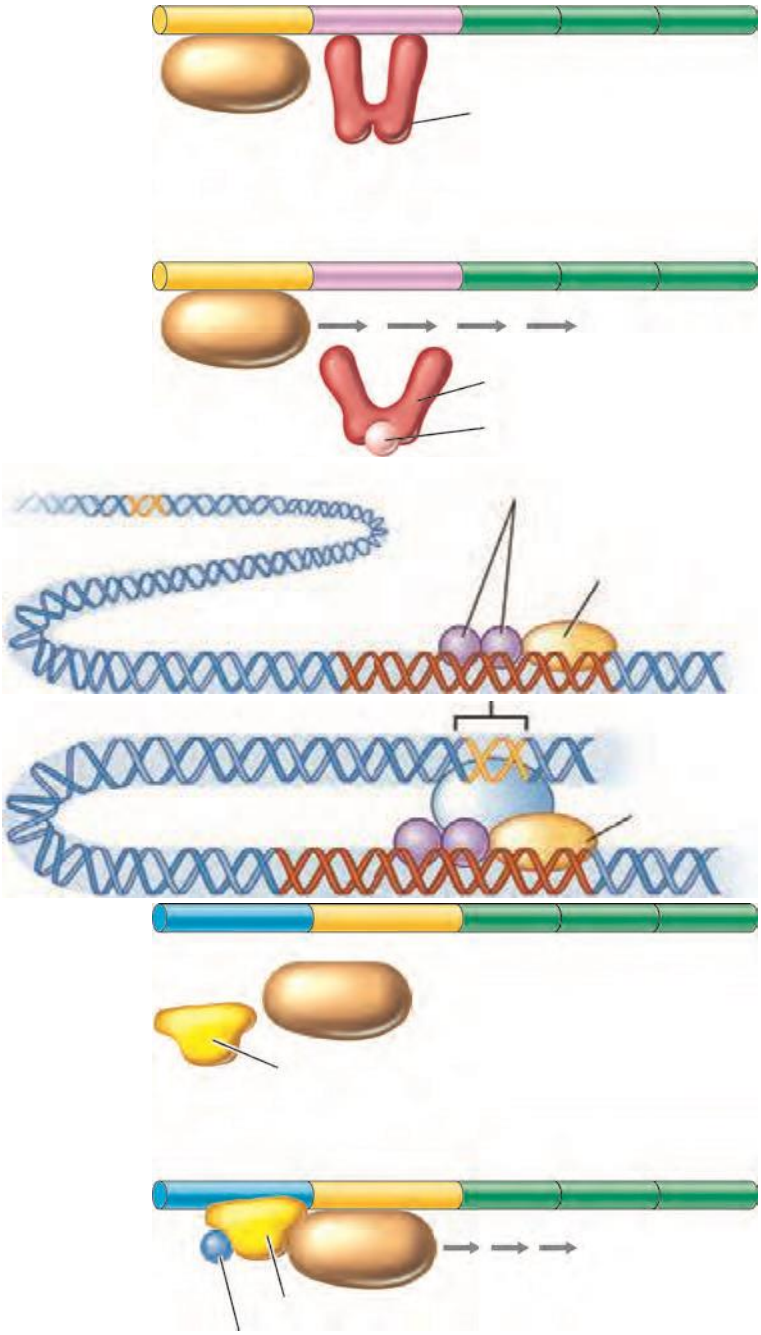


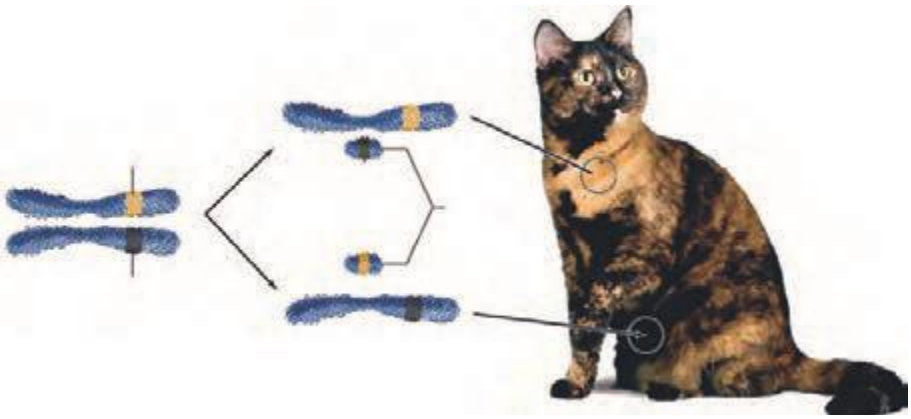

E
A



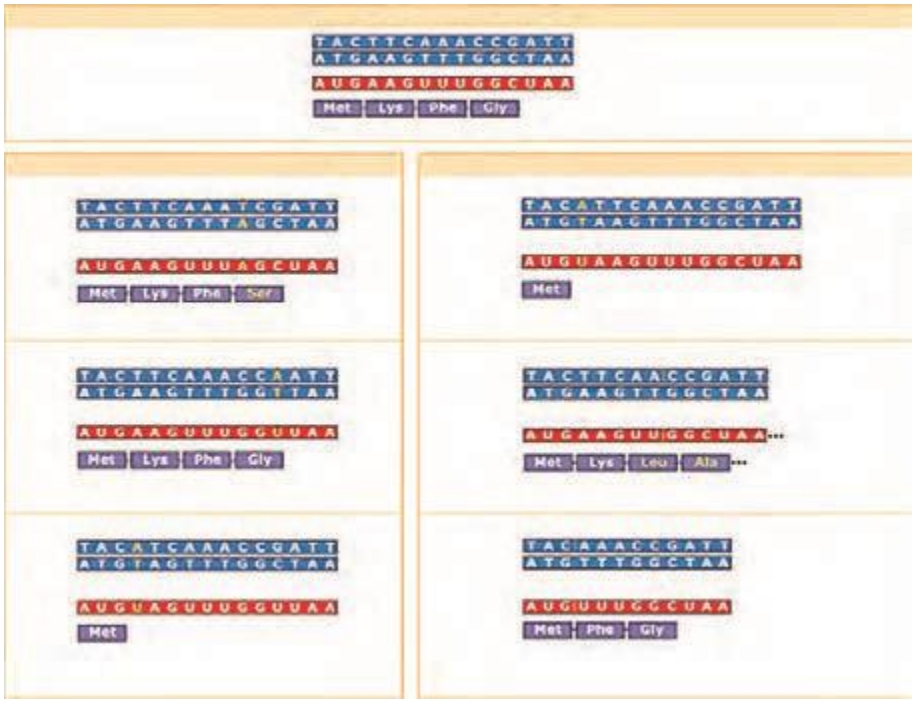








PKU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Met Lys Phe Gly
TACTTCAAATCGATT
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TACATTCAAACCGATT
ATGTAAGTTTGGCTAA
AUGUAAGUUUGGCUAA
Met
TACTTCAAACCAATT
ATGAAGTTTGGTTAA
AUGAAGUUUGGUUAA
Met Lys Phe Gly
TACTTCAACCGATT
ATGAAGTTGGCTAA
AUGAAGUUGGCUAA...
Met Lys Leu Ala...
TACATCAAACCGATT
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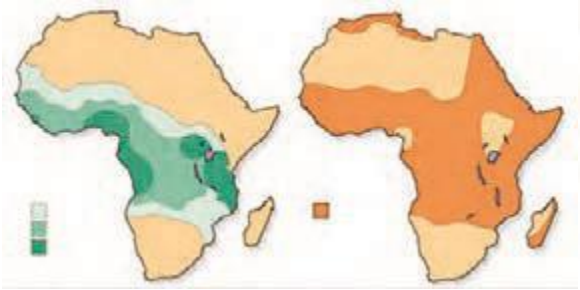
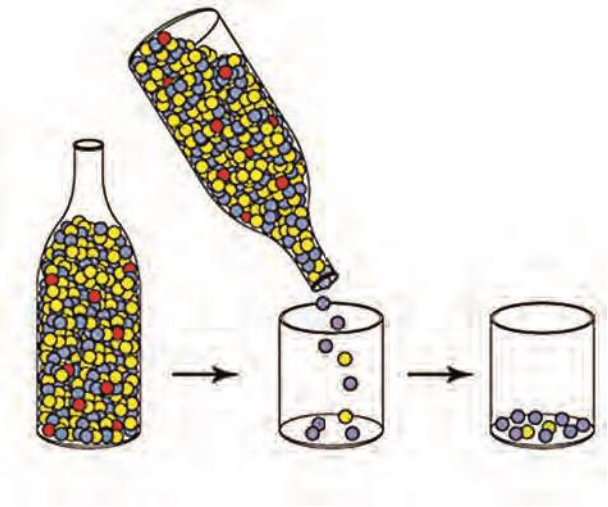
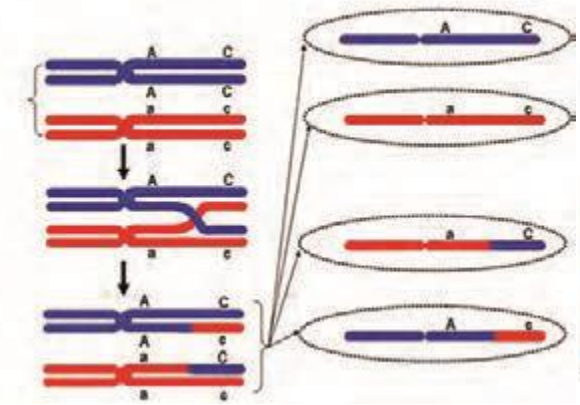
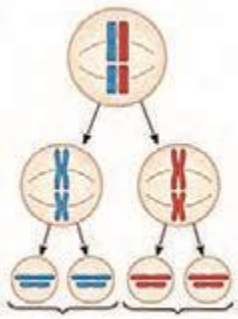
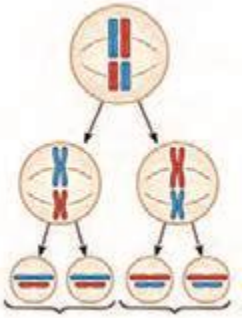
Met
TACAAACCGATT
ATGTTTGGCTAA
AUGUUUGGCUAA
Met Phe Gly

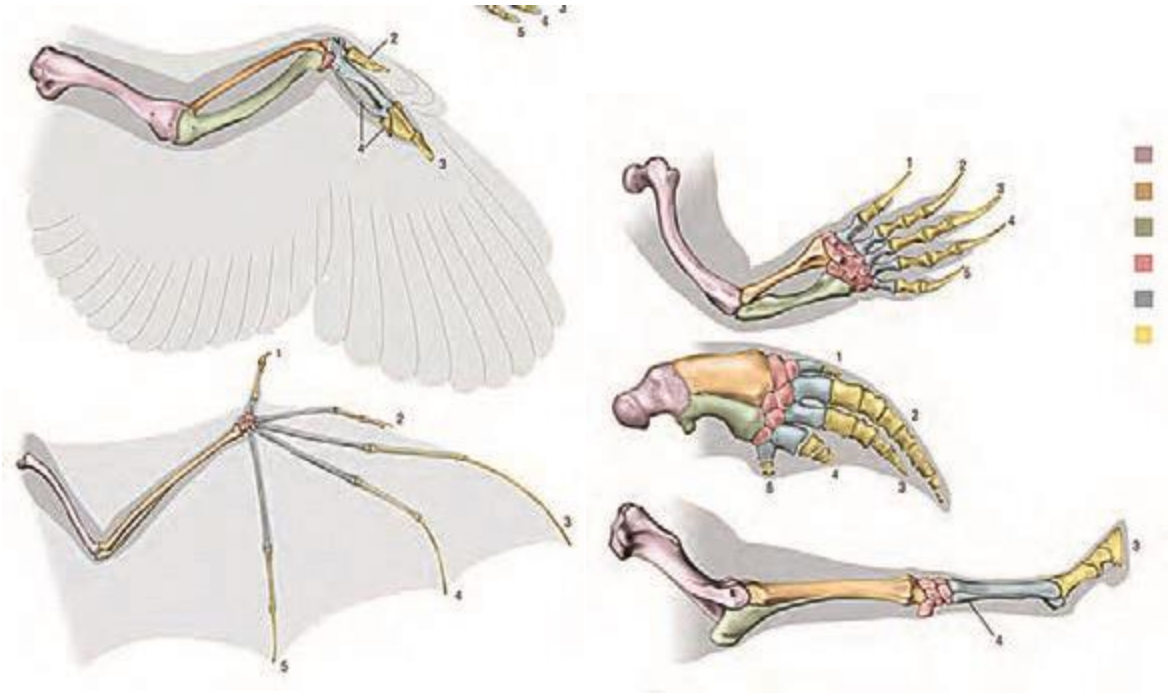


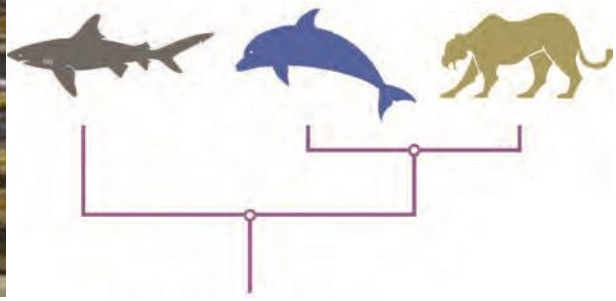


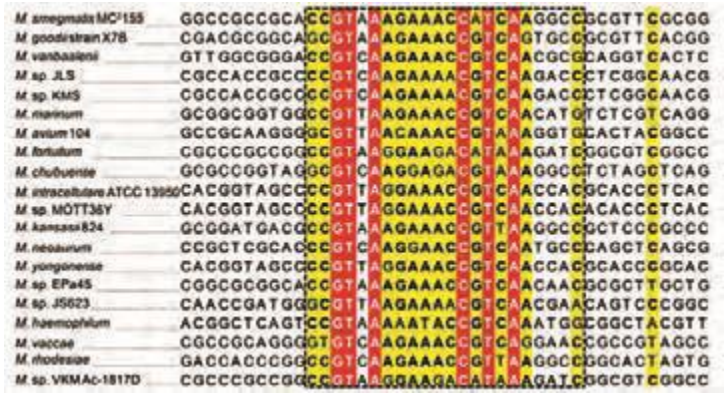


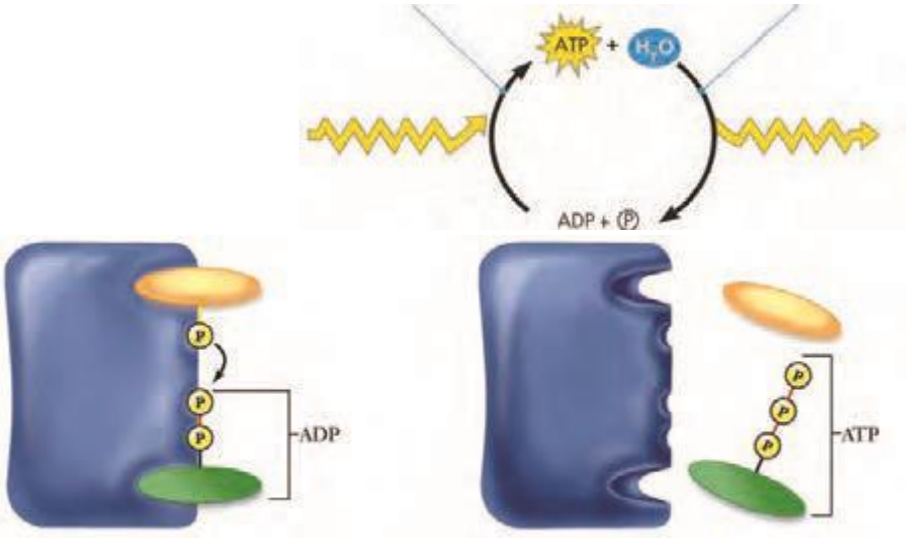


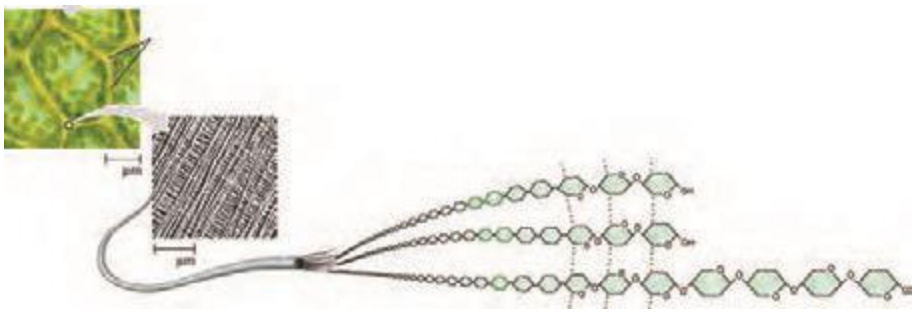


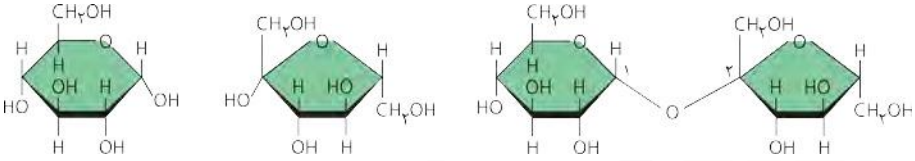


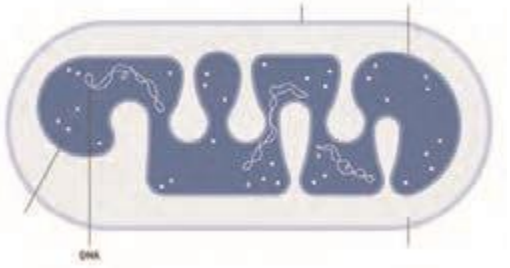


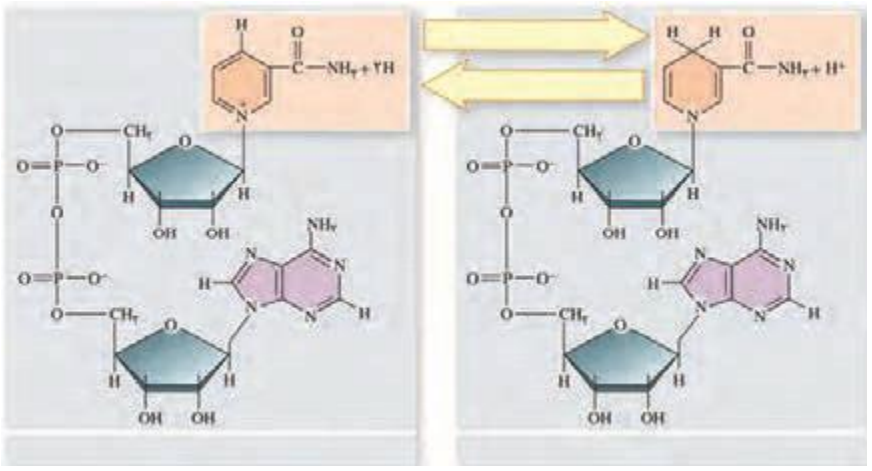

M. smegmatis MC²155 GGCCGCCGCACCGTAAGAAACGATCAAGGCCGCGTTCGCGG
M. goodii strain X78 CGACGCGGCAGCGTAAGAAACGGTCAGTGCCGCGTTCACGG
M. vanbaalenii GTTGGCGGGACCGTCAGAAACGGTCAACGCGCAGGTCACTC
M. sp. JLS CGCCACCGCCCCGTCAGAAAACGGTCAAGACCCTCGGCAACG
M. sp. KMS CGCCACCGCCCCGTCAGAAAACGGTCAAGACCCTCGGCAACG
M. marinum GCGGCGGTGGCCGTTAGAAACGGTCAACATGTCTCGTCAGG
M. avium 104 GCCGCAAGGGGCGTTAACAAACGGTAAAGGTGCACTACGGCC
M. fortuitum CGCCCGCCGGCCGTAAGGAAGACATAAAGATCGGCGTCGGCC
M. chubuense GCGCCGGTAGGCGTCAGGAGACGTAAAGGCCTCTAGGTCAG
M. intracellulare ATCC 13950 CACGGTAGCCCCGTTAGGAAACGGTCAACCACGCACCGTCAC
M. sp. MOTT36Y CACGGTAGCCCCGTTAGGAAACGGTCAACCACACACCCTCAC
M. kansasii 824 GCGGATGACGCCGTAAGAAACGGTTAAGGCCGCTCCCGCCC
M. neoaurum CCGCTCGGCACCGTCAAGGAACGGTCAATGCCCAGCTCAGCG
M. yongonense CACGGTAGCCCCGTTAGGAAACGGTCAACCACGCACCGCAC
M. sp. EPa45 CGGCGCGGCACCGTAAGAAACGGTCAACAACGCGCTTGCTG
M. sp. JS623 CAACCGATGGGCGTTAGAAAACGGTCAACGAACAGTCGCGGC
M. haemophilum ACGGCTCAGTCCGTAAAATACGGTCAATGGCGGCTACGTT
M. vaccae CGCCGCAGGGGTGTCAGAAACGGTCAGGAACCGCCGTAGCC
M. rhodesiae GACCACCCGGCCGTCAAGAAACGGTTAAGGCCGGCACTAGTG
M. sp. VKM Ac-1817D CGCCCGCCGGCCGTAAGGAAGACATAAAGATCGGCGTCGGCC

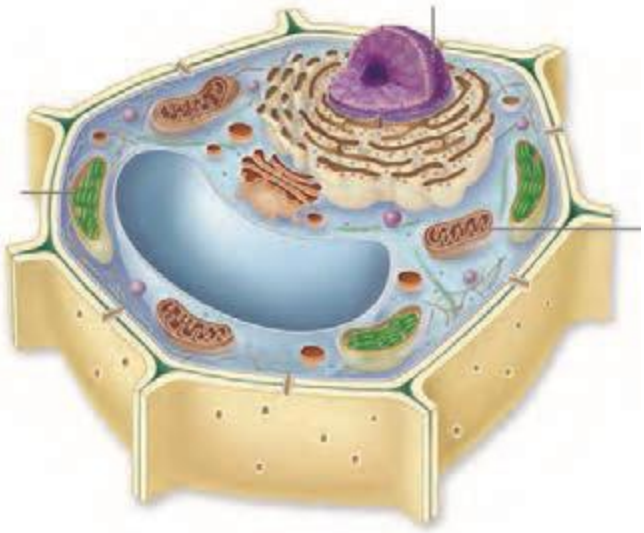

ATP
+
H_2O
ADP + (P)
ADP
ATP

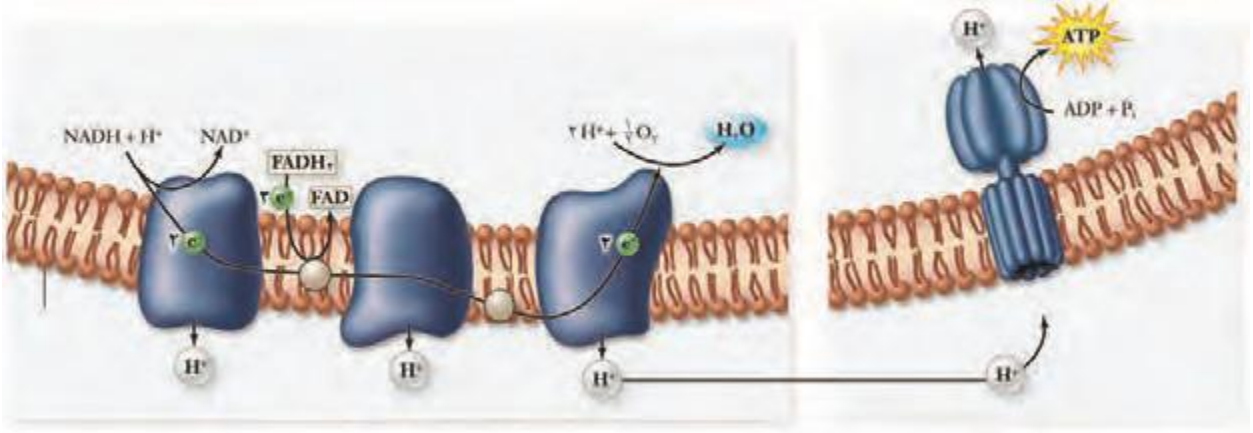


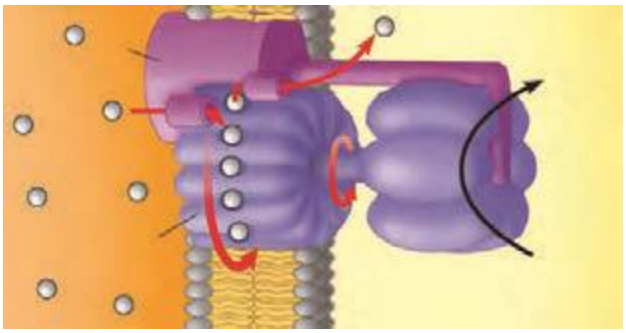


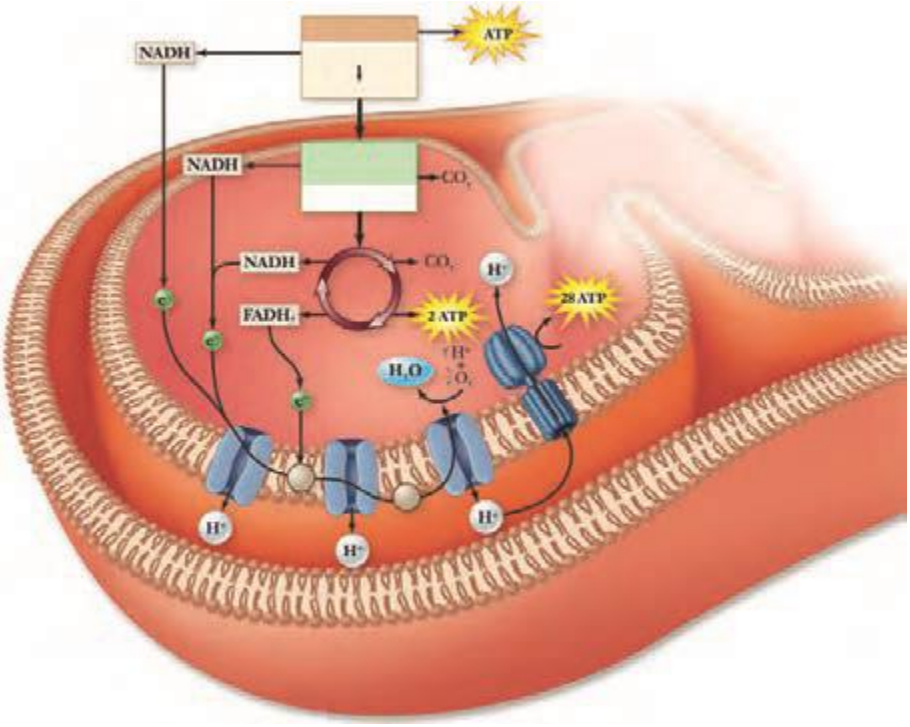


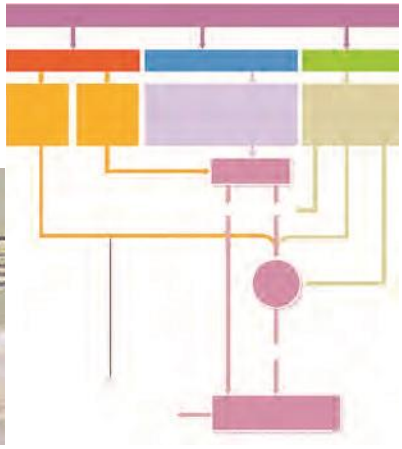


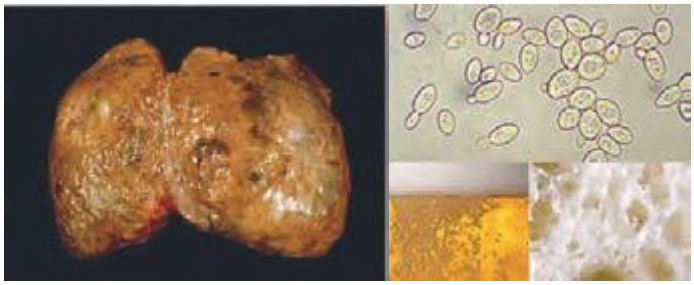


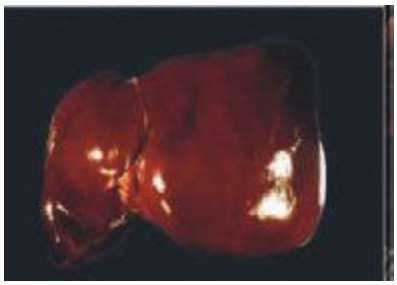

NADH + H⁺
NAD⁺
FADH₂
FAD
H₂O
ATP
ADP + Pᵢ
H⁺

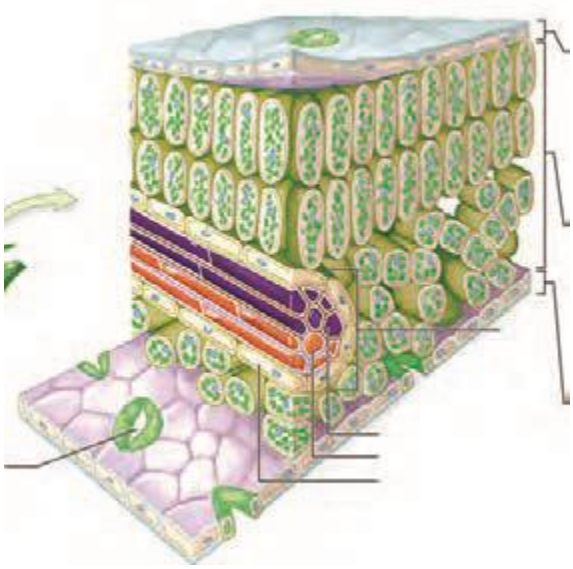


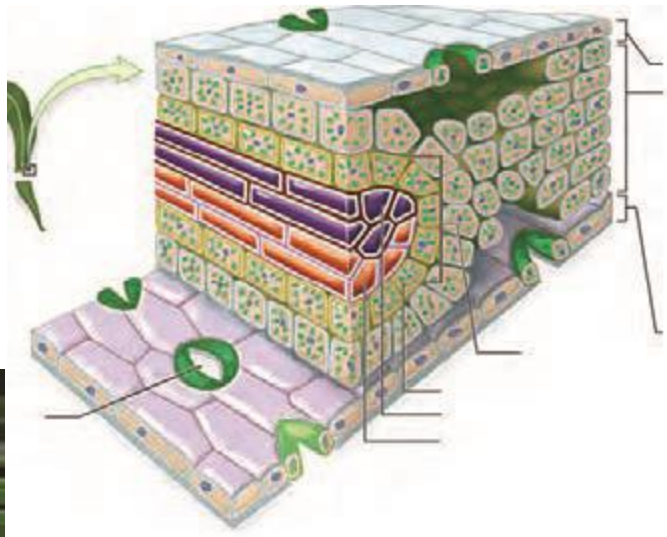

NADH
ATP
NADH
CO2
NADH
CO2
FADH2
2 ATP
28 ATP
H+
H2O
H+
H+
H+

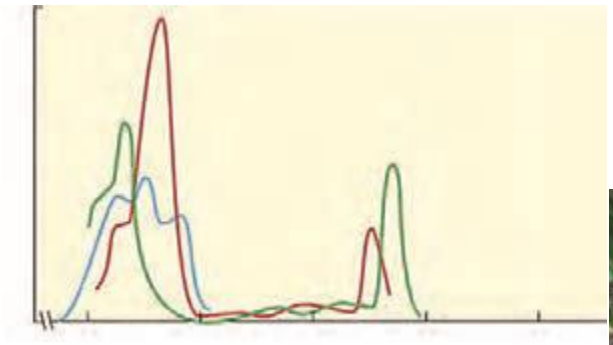


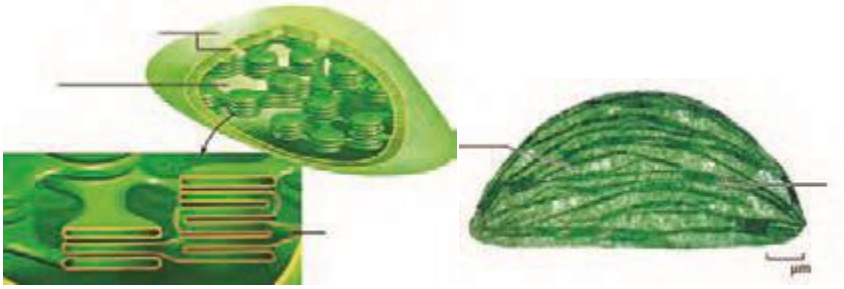


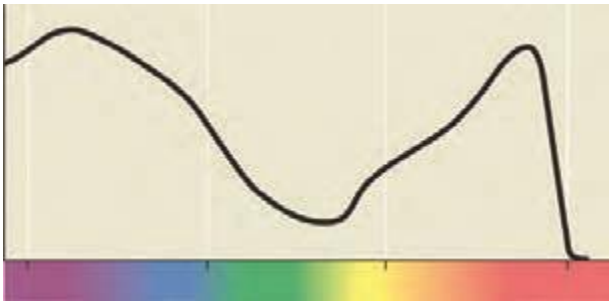


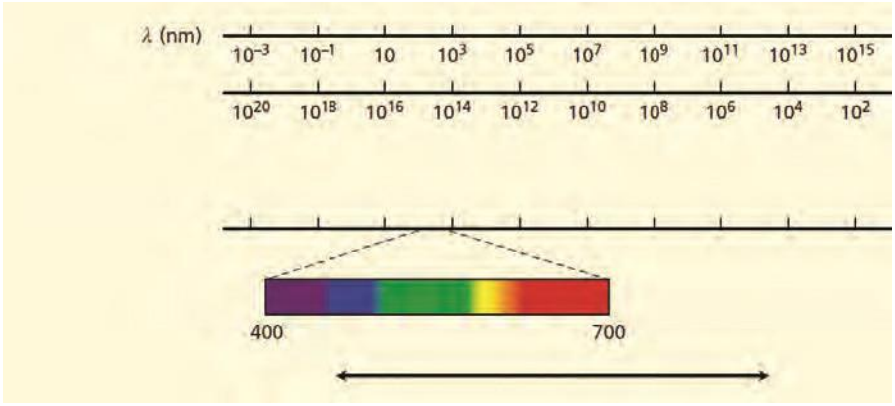


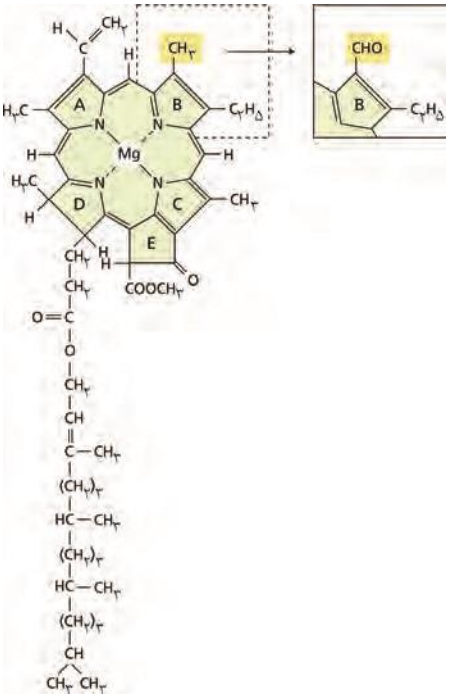


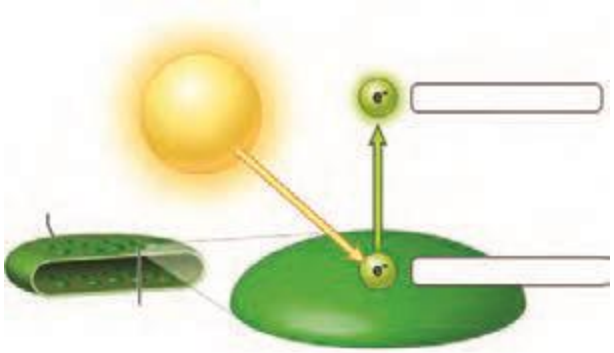


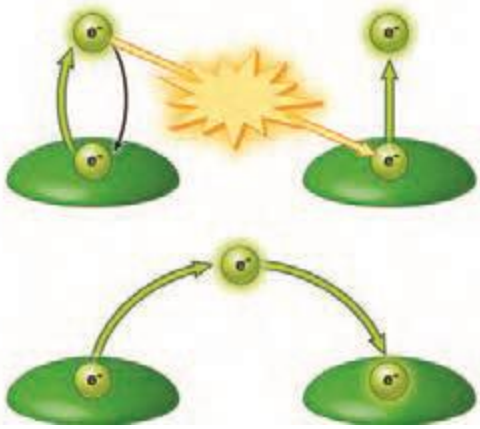


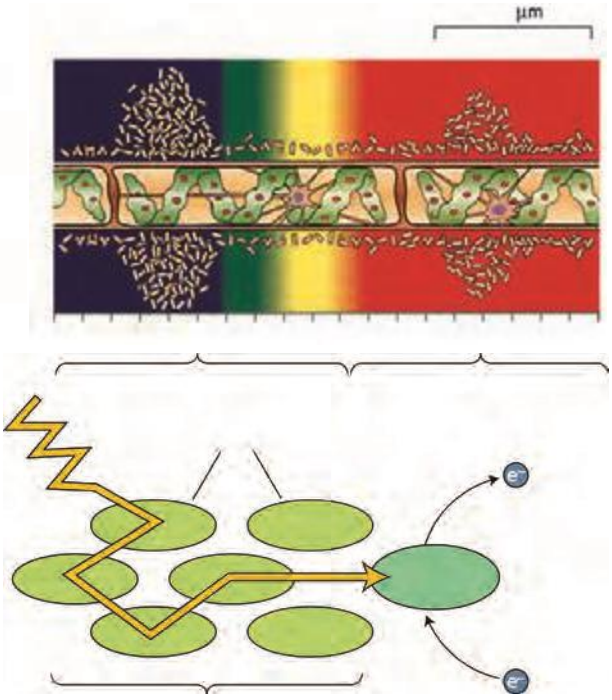


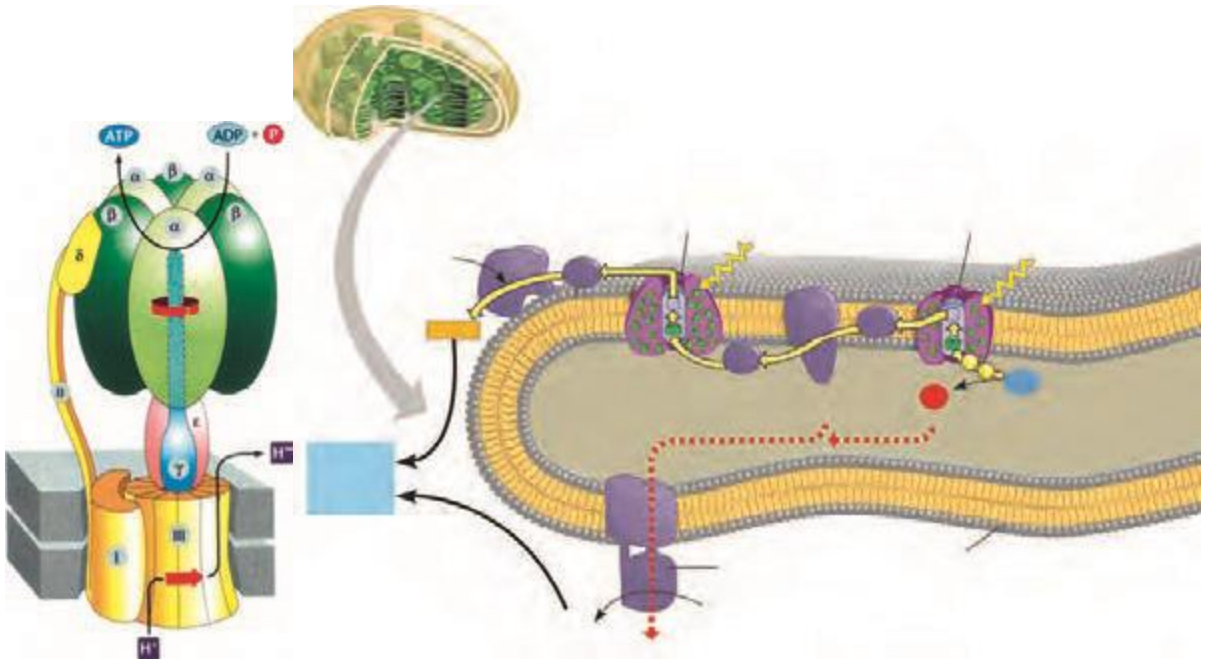

λ (nm)
10⁻³ 10⁻¹ 10 10³ 10⁵ 10⁷ 10⁹ 10¹¹ 10¹³ 10¹⁵
10²⁰ 10¹⁸ 10¹⁶ 10¹⁴ 10¹² 10¹⁰ 10⁸ 10⁶ 10⁴ 10²
400
700

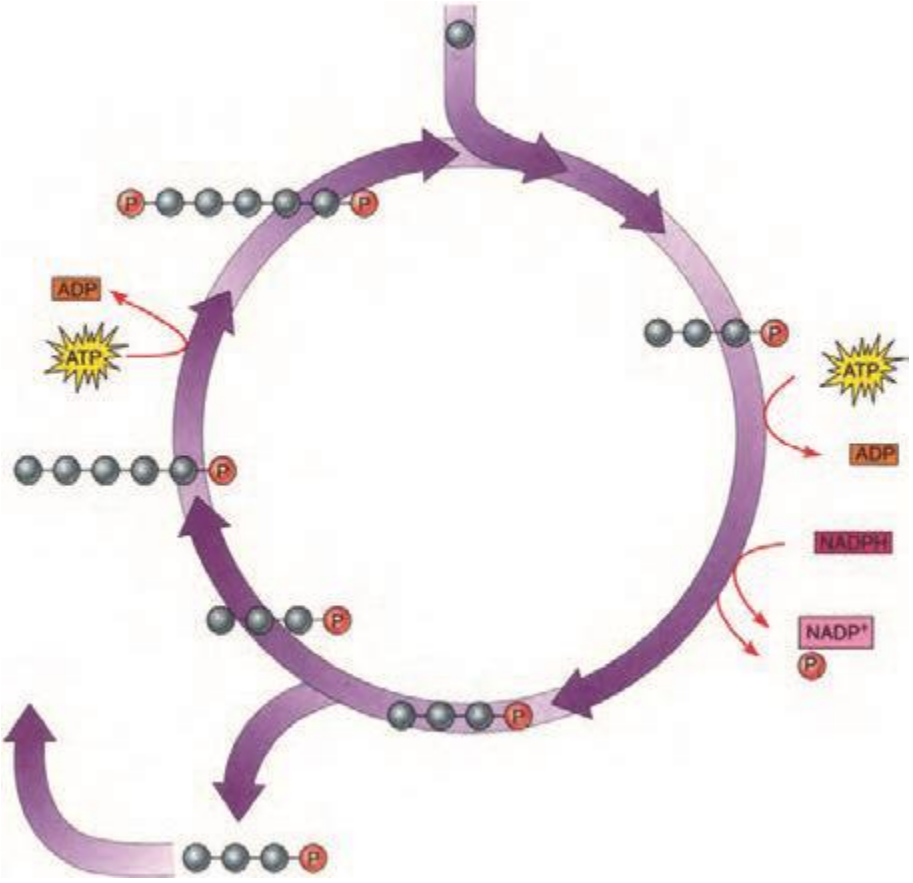

CH₃
CHO
A
B
C
D
E
Mg
COOCH₃

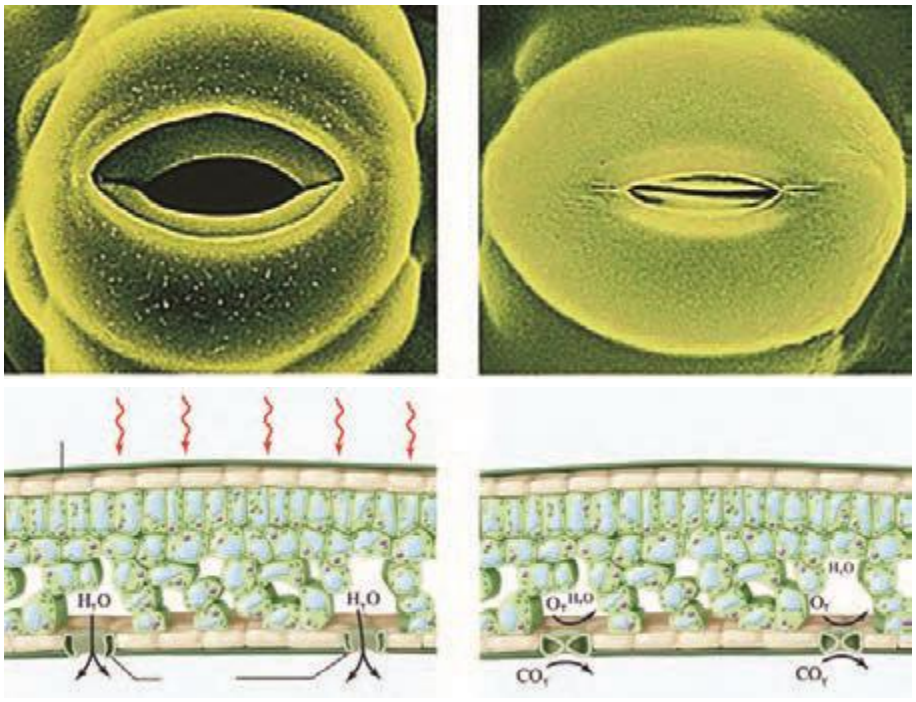


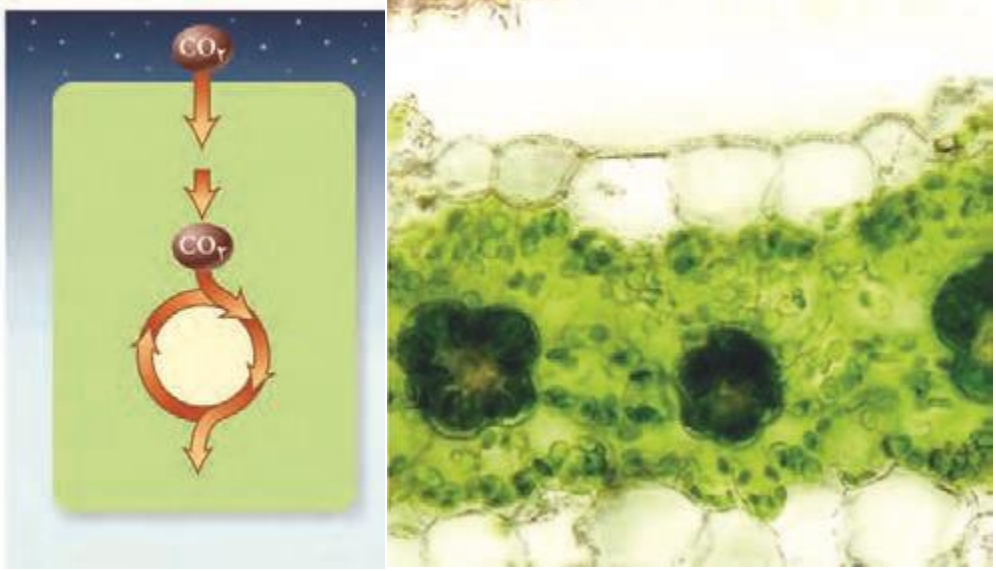


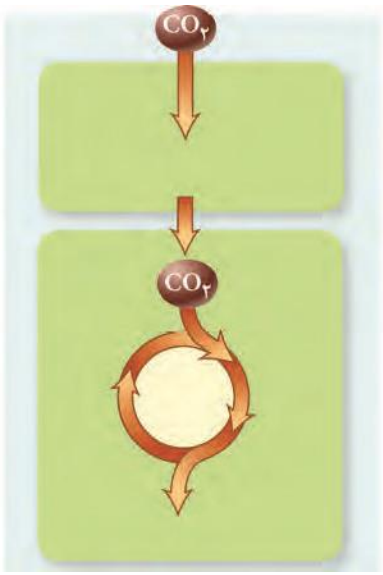

µm

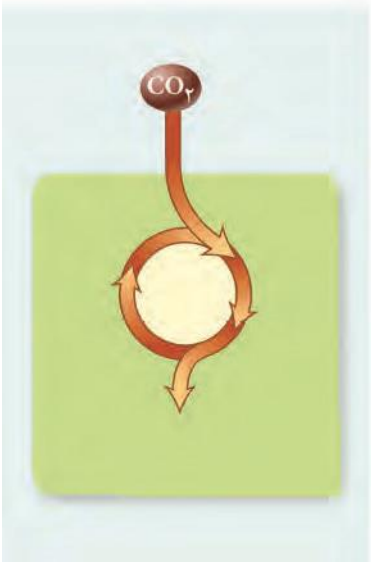

ATP
ADP + P
H+
H+

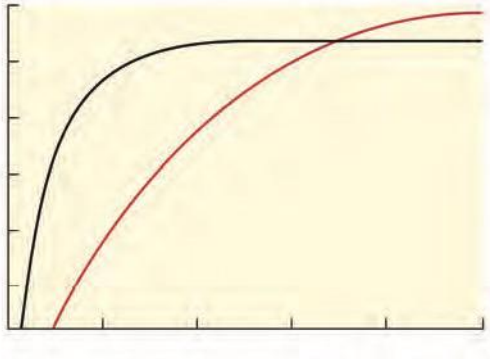

ADP
ATP
ATP
ADP
NADPH
NADP+
P


H2O
H2O
O2
H2O
H2O
O2
CO2
CO2

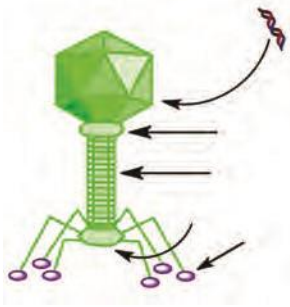

CO2
CO2


CO_2
CO_2

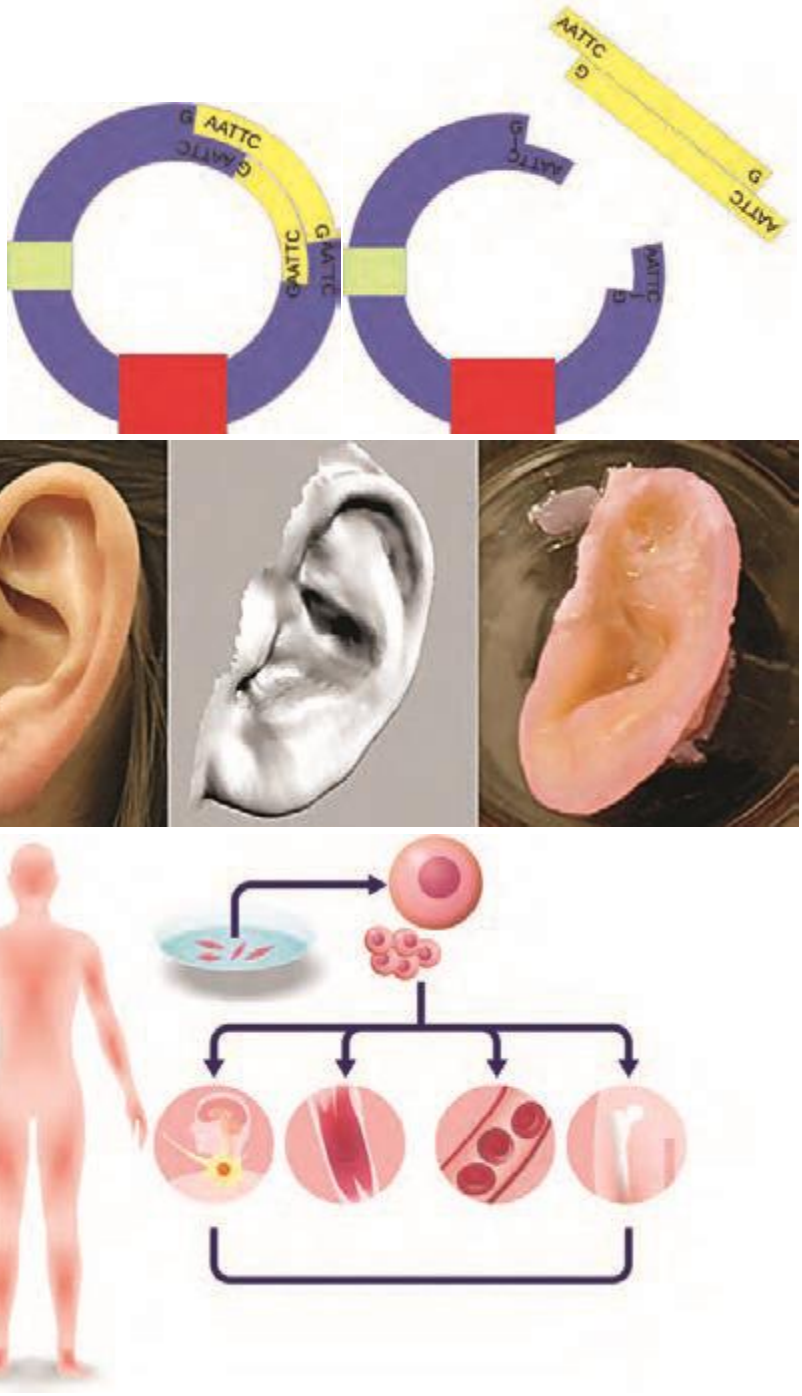

CO_2

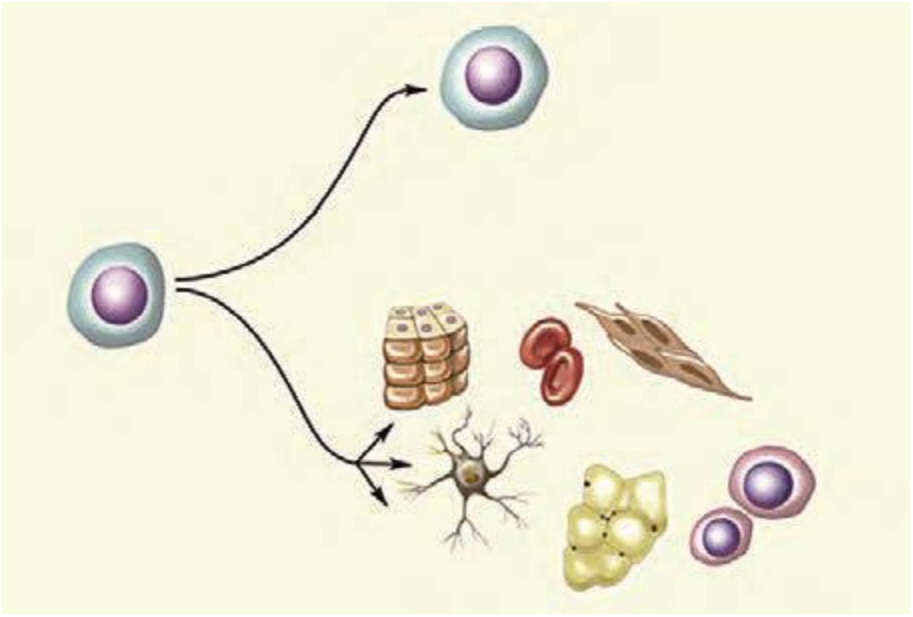


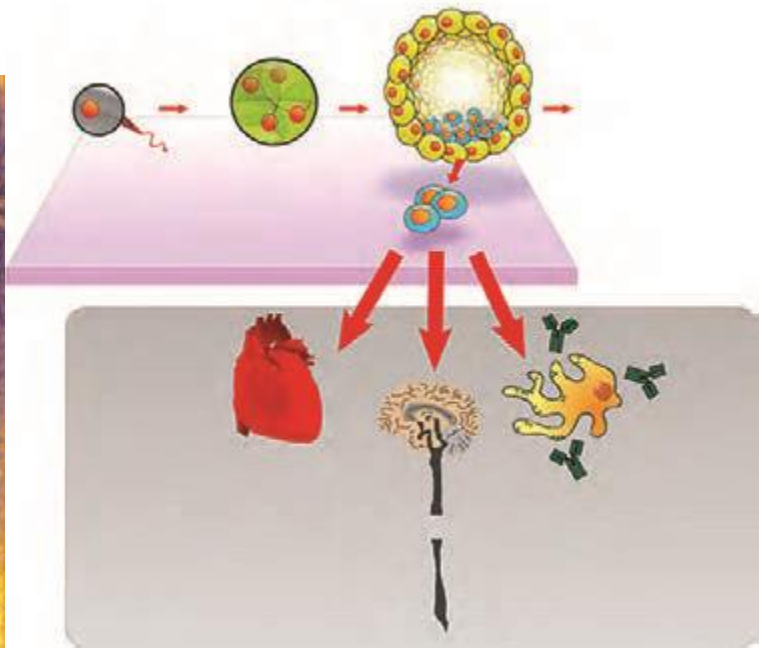

GAATTC
GAATTC
CTTAAG
CTTAAG



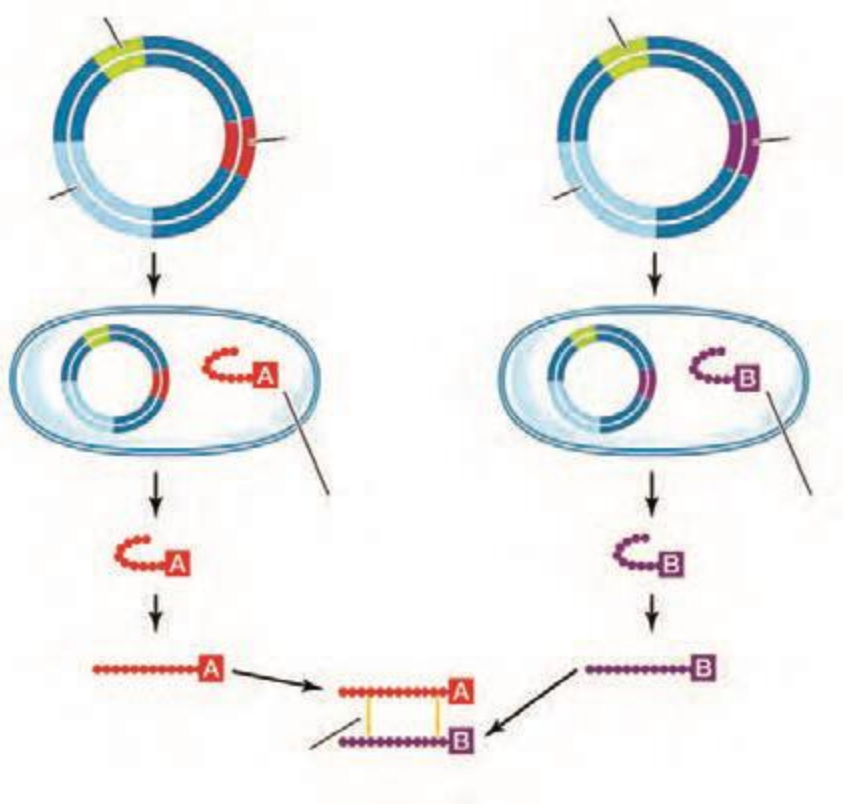

GAATTC
CTTAAG


AATTC
G
AATTC
G
AATTC
G
AATTC
G
AATTC
G
AATTC
G






Humulin N


A
A
A
B
B
B