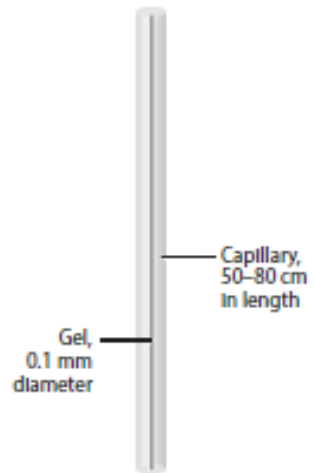
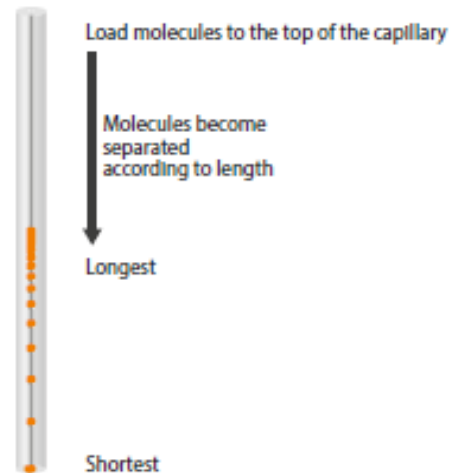


Genom Dizileme

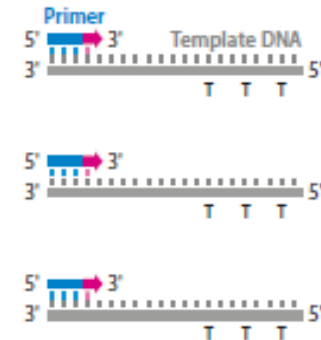
(A) Capillary gel



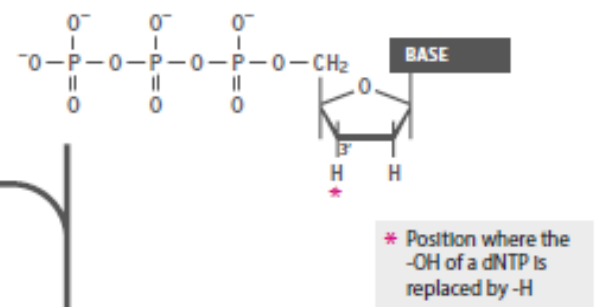
(B) Electrophoresis of chain-terminated DNA molecules



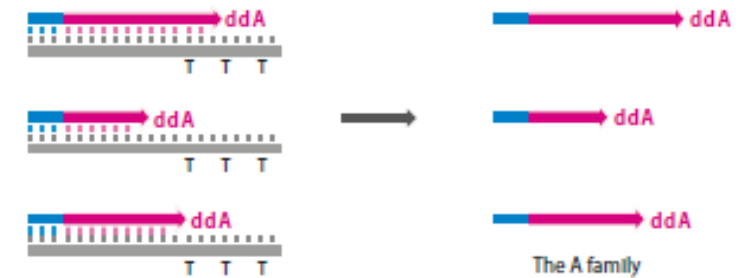
(A) Initiation of strand synthesis

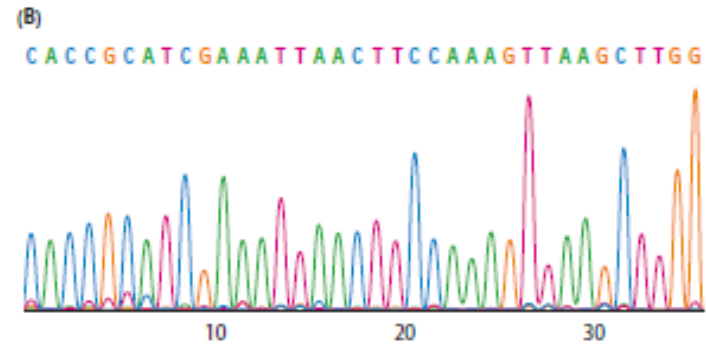
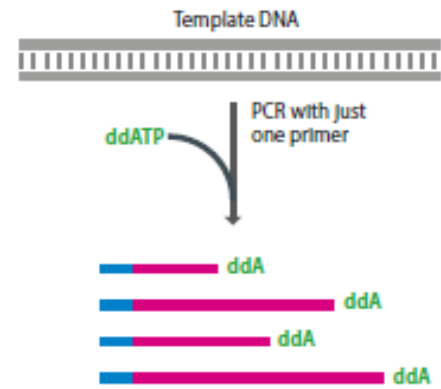
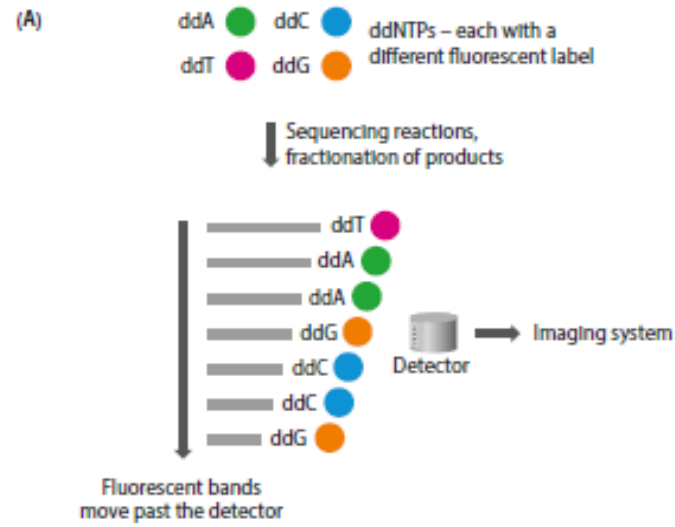


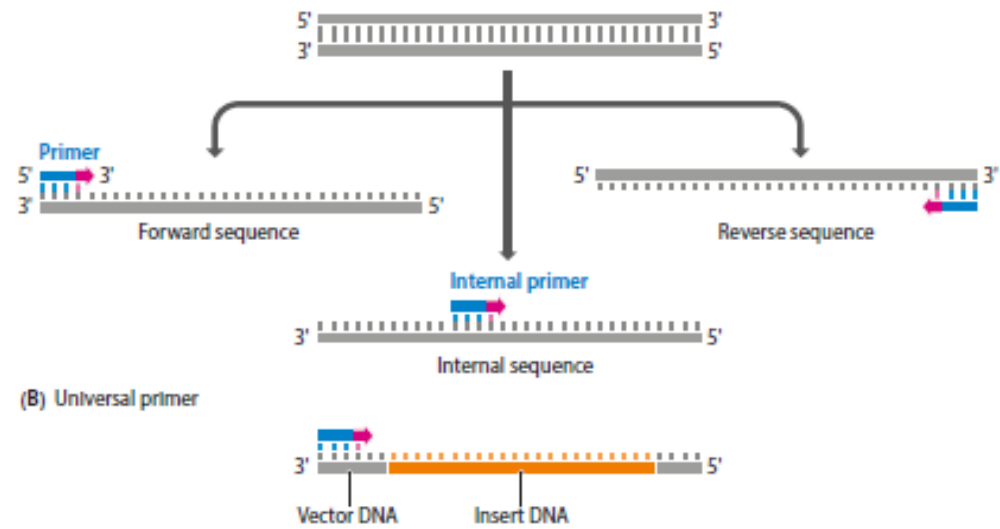
(B) A dideoxynucleotide



(C) Strand synthesis terminates when a ddNTP is added

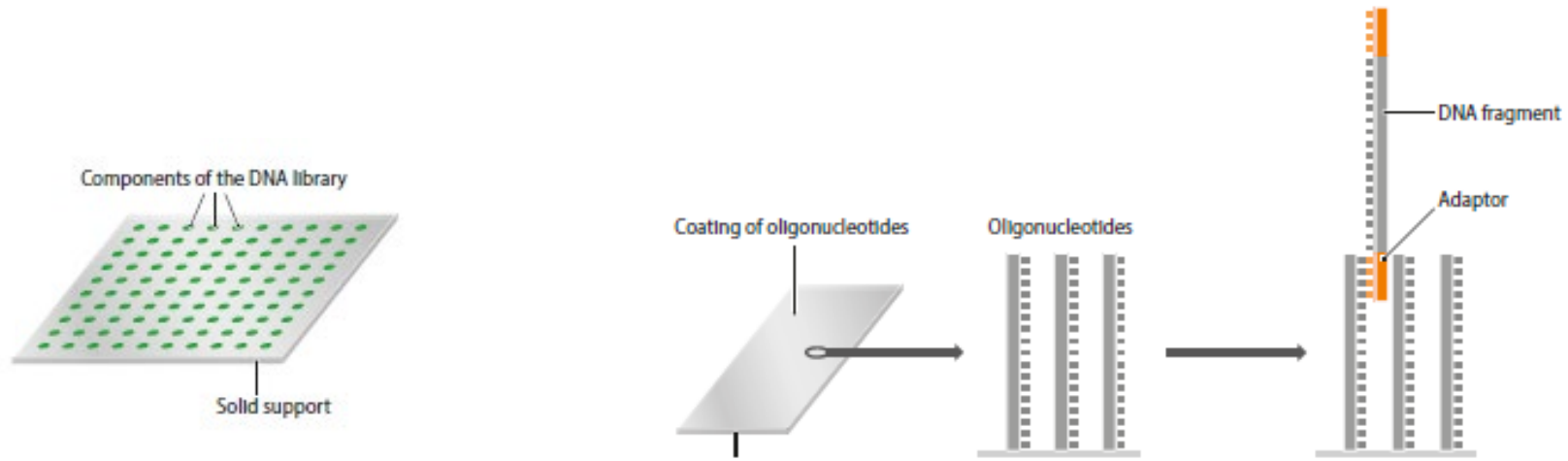


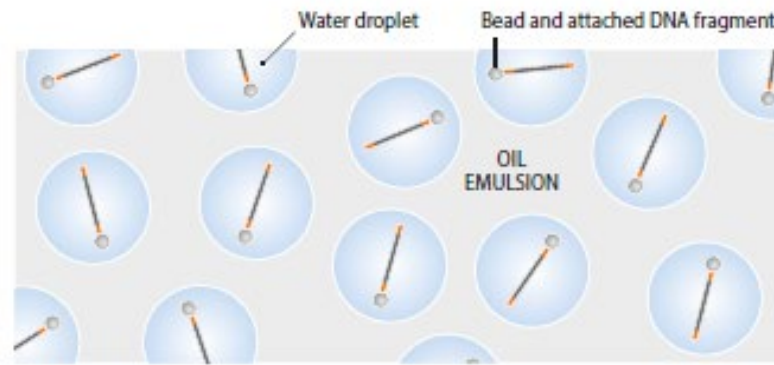
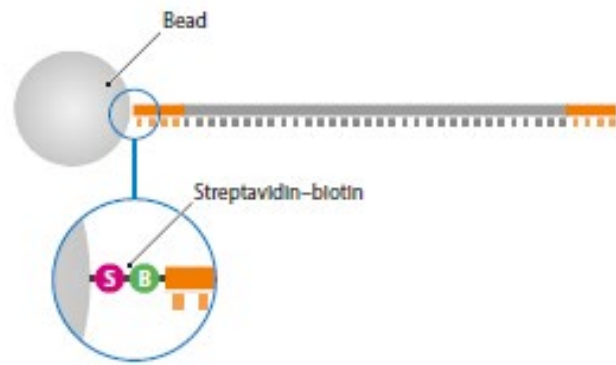




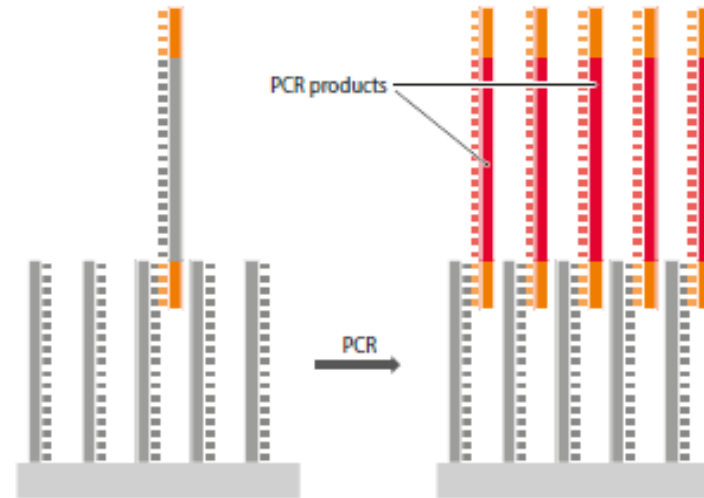
(B) Universal primer

	ACCATCGTAGCTTCAGTATGTATGTACTAG	Read 1
ATGTTTGTAGCTAGGATCGTAGCTACC		Read 2
TTTGTAGCTAGGATCGTAGCTACCATCGTAGCTT		Read 3
	TTGTAGCTTCAGTATGTATGTACTAG	Read 4
GGATCGTAGCTACCATCGTAGCTTCAGT		Read 5
ATGTTTGTAGCTAGGATCGTA		Read 6
ATGTTTGTAGCTAGGATCGTAGCTACCATCGTAGCTTCAGTATGTATGTACTAG		Deduced sequence

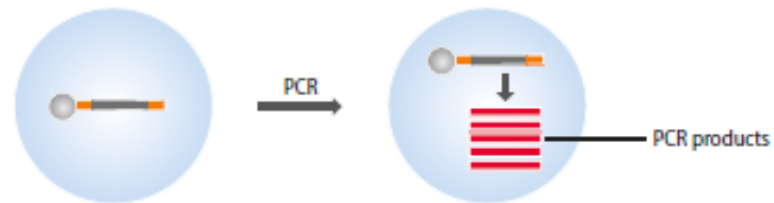




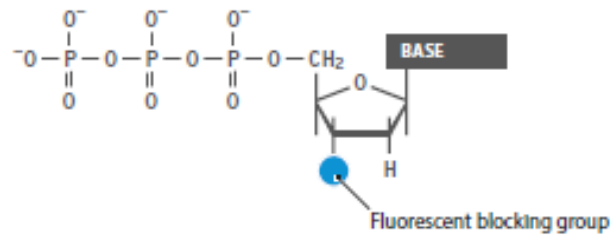
(A) Glass slide method



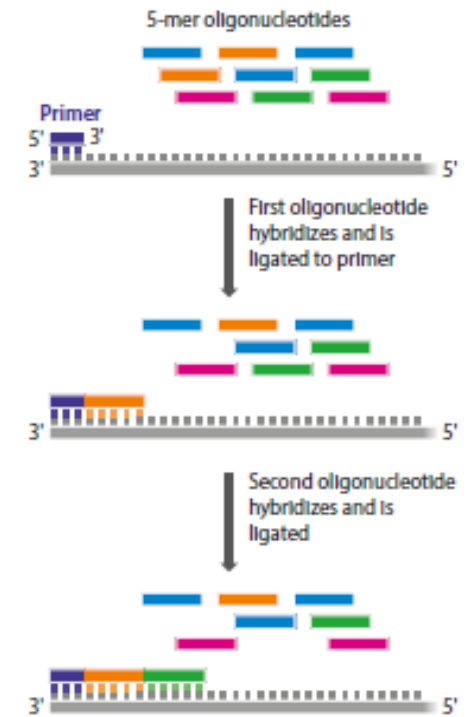
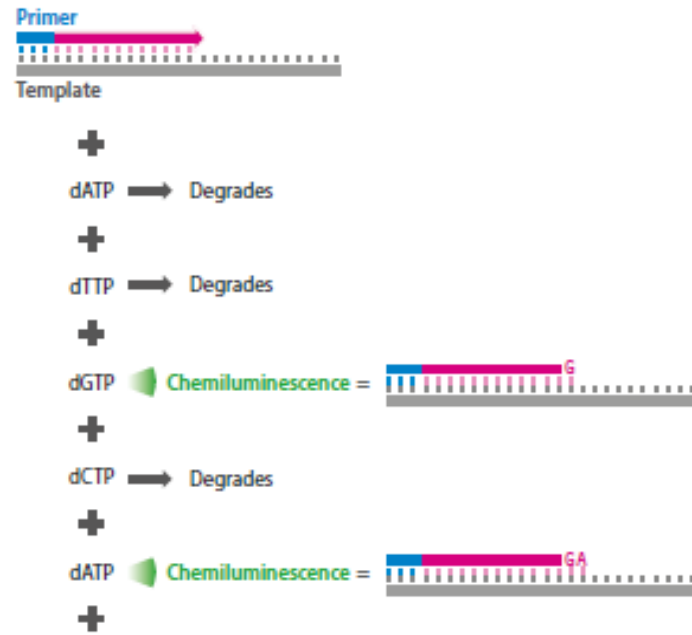
(B) Metallic bead method

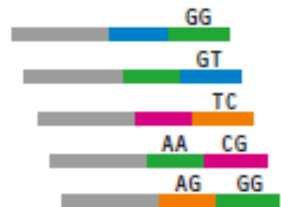
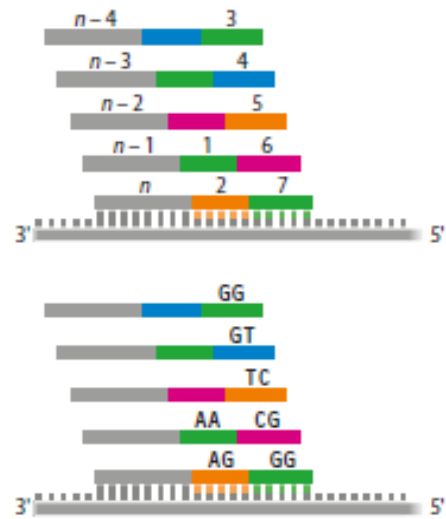


(A) A reversible terminator nucleotide

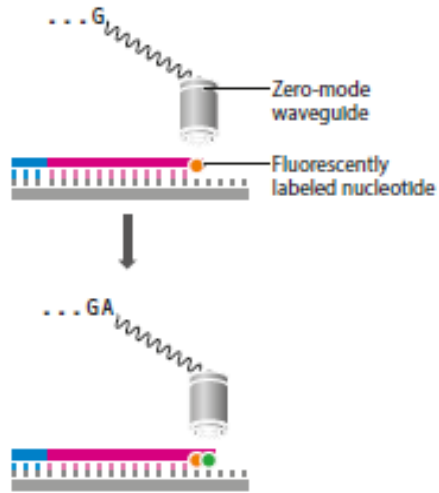


(B) Reversible terminator sequencing

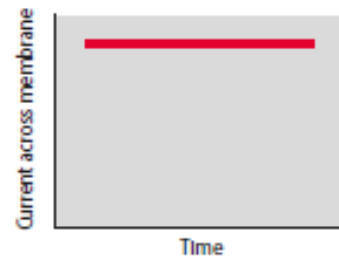
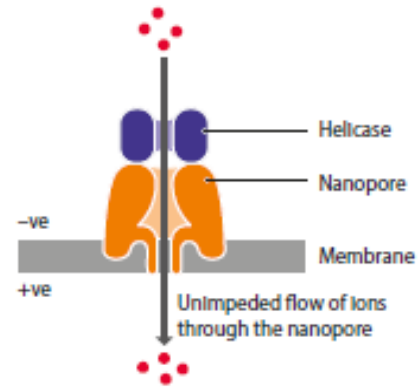




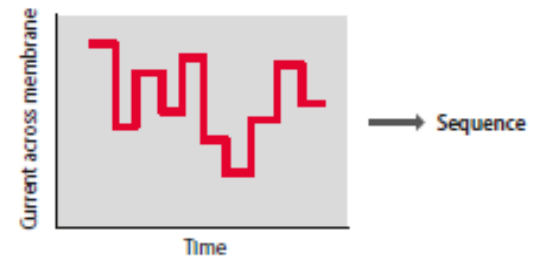
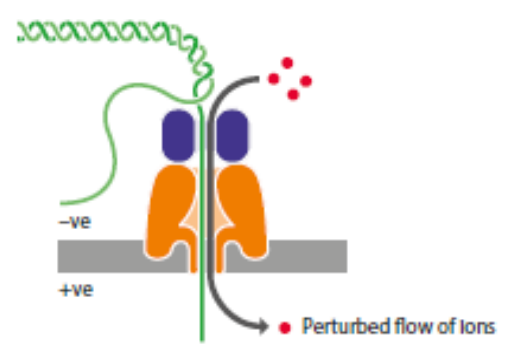
KEY				
2nd base				
1st base	A	C	G	T
A	Green	Blue	Orange	Pink
C	Blue	Green	Pink	Orange
G	Orange	Pink	Green	Blue
T	Pink	Orange	Blue	Green

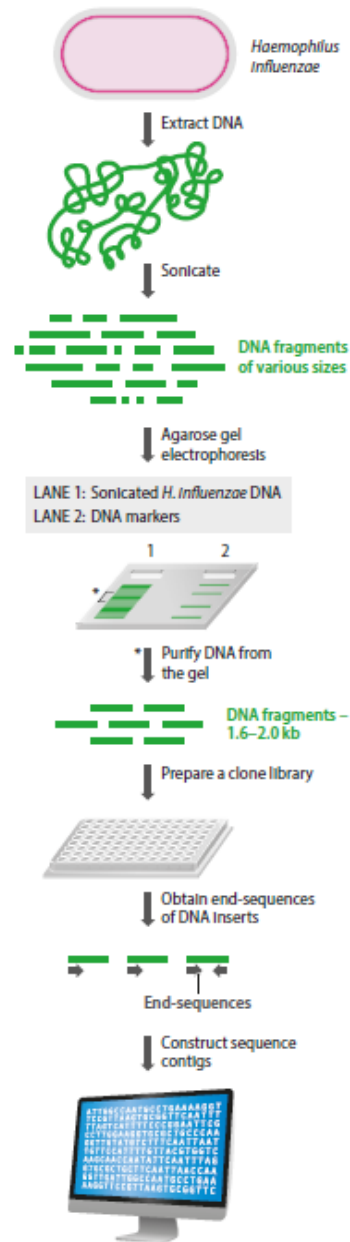


(A) No DNA present

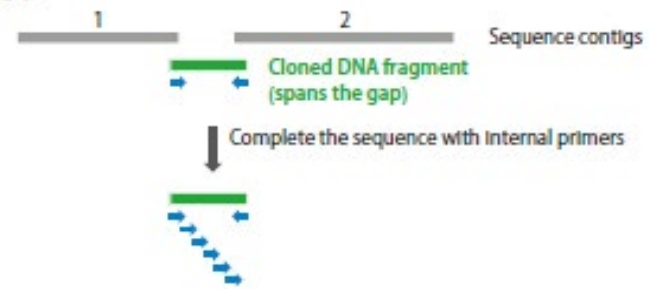


(B) DNA passing through the nanopore

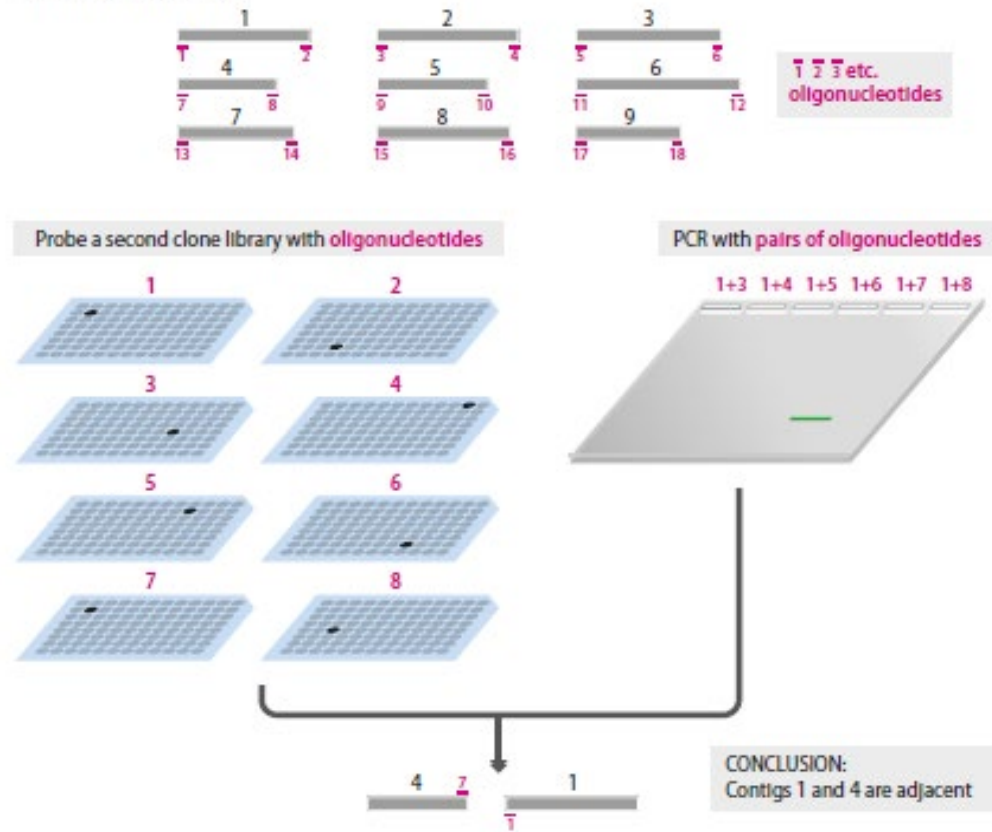


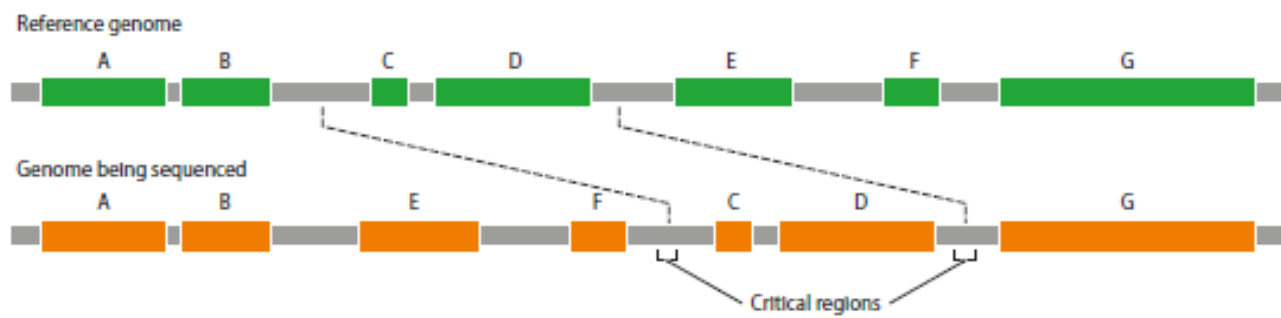


(A) Closing a sequence gap



(B) Closing a physical gap





(A) The prefix and suffix versions of a *k*-mer

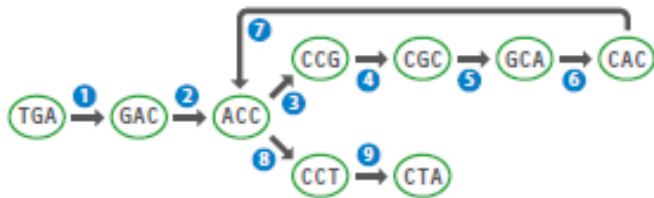
k-mer ATGCAGCTATATAGCGGATG
 Prefix sequence ATGCAGCTATATAGCGGAT
 Suffix sequence TGCAGCTATATAGCGGATG

(B) Reading a sequence for a De Bruijn graph



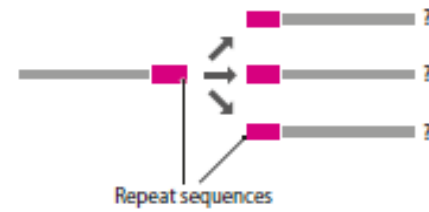
Master sequence TGACCGCAGTTA

(C) An Eulerian pathway through a De Bruijn graph



Master sequence TGACCGCACCTA

(A) Ambiguous sequence assembly



(B) Paired-end reads resolve the assembly

