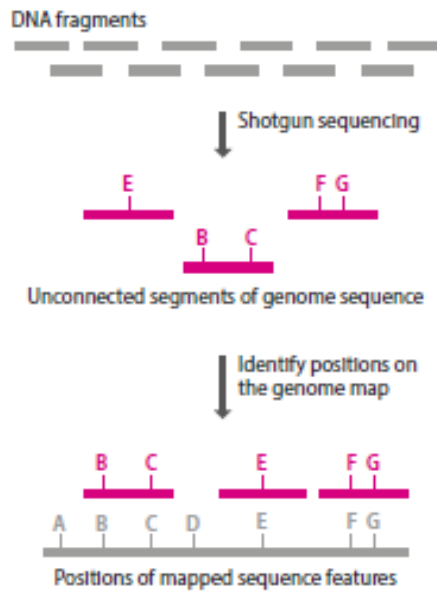
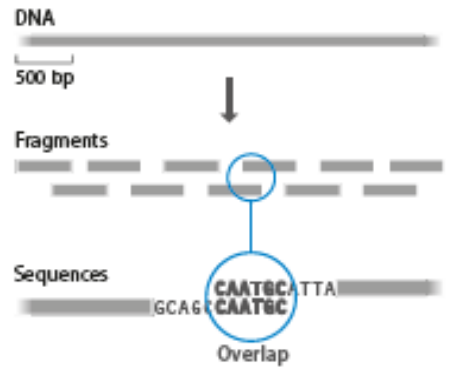
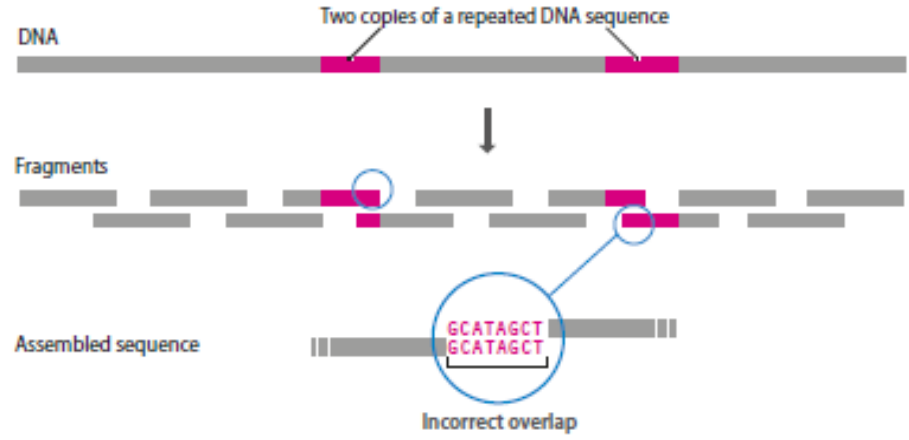


Genom Haritalama

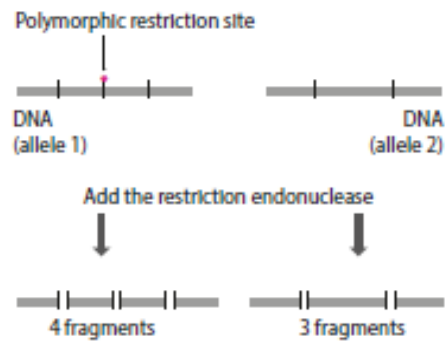


(A) Error in sequence assembly caused by repetitive DNA

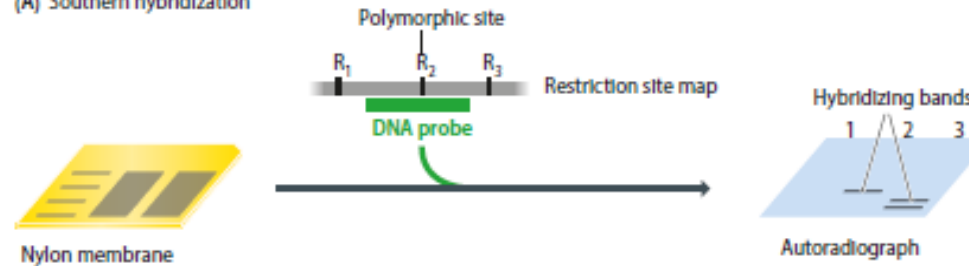


(B) The genome map enables the error to be recognized

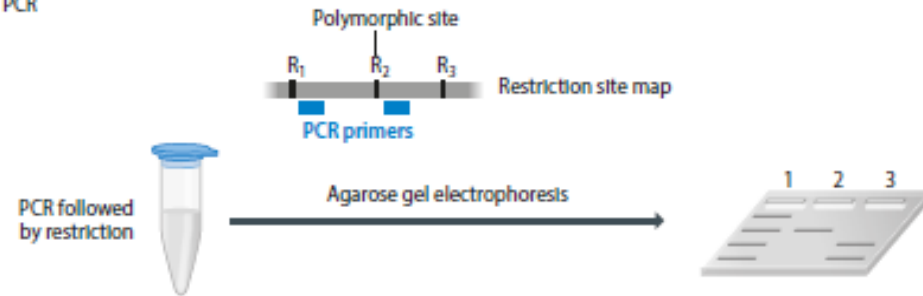




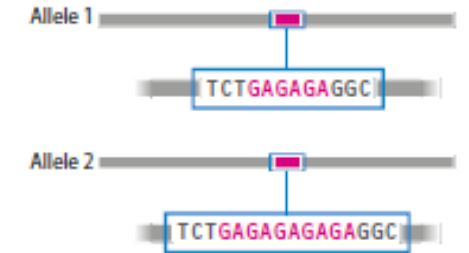
(A) Southern hybridization



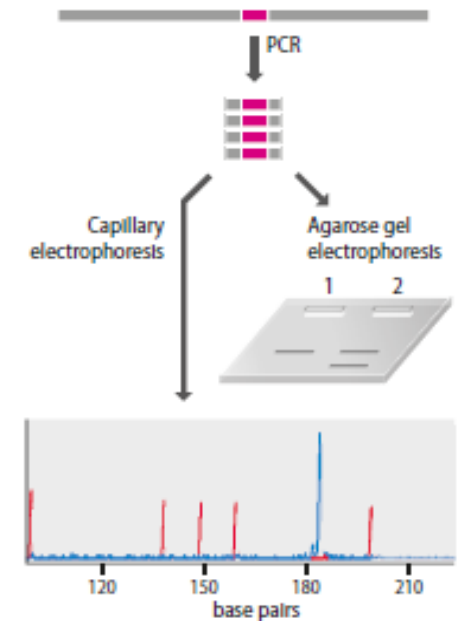
(B) PCR

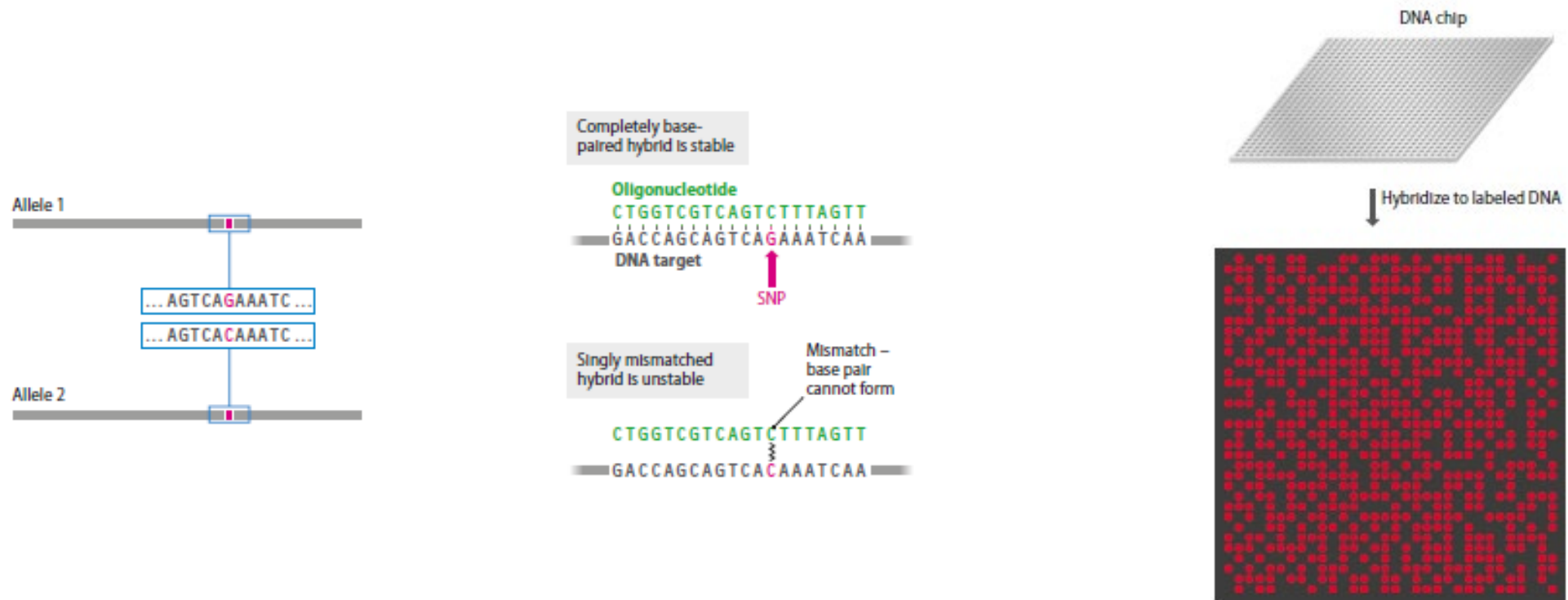


(A) Two variants of an SSLP

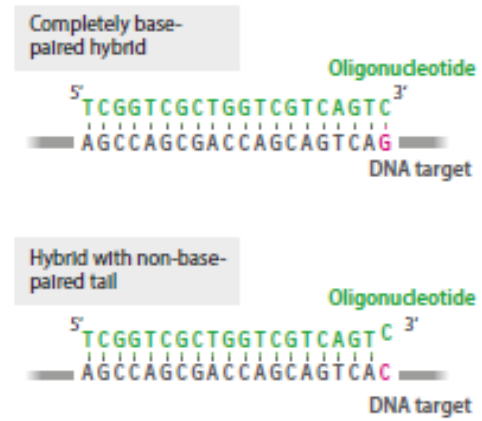


(B) Typing an STR by PCR

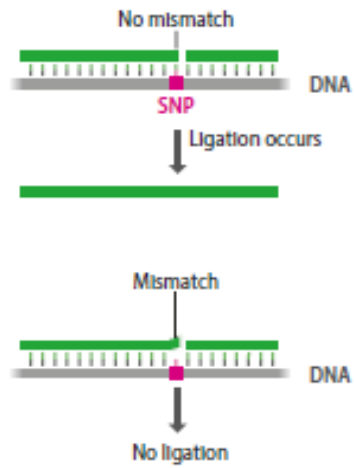




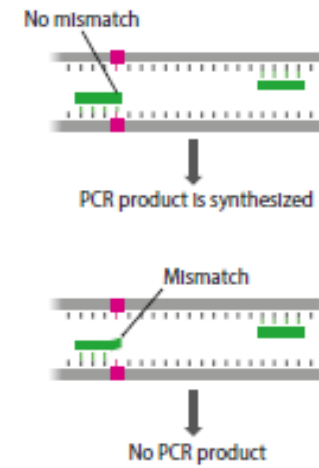
(A) Hybridization with an oligonucleotide with a terminal mismatch



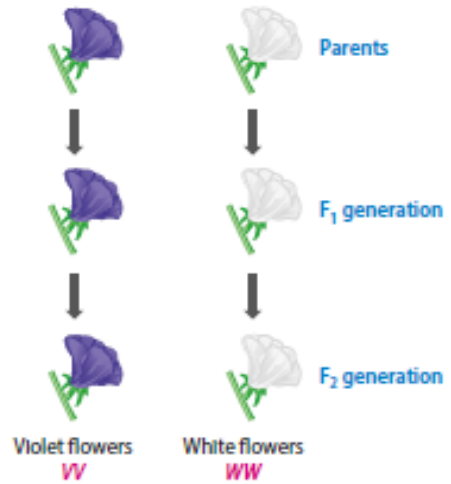
(B) Oligonucleotide ligation assay



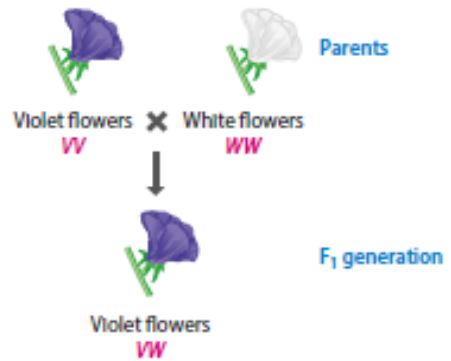
(C) The ARMS test



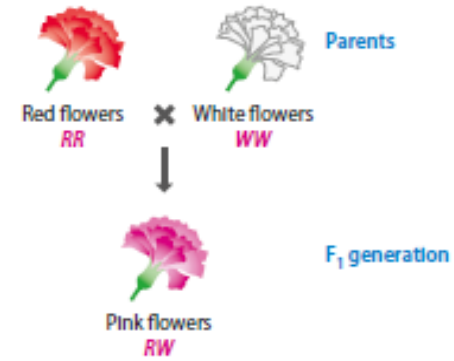
(A) Self-fertilization of pure-breeding pea plants



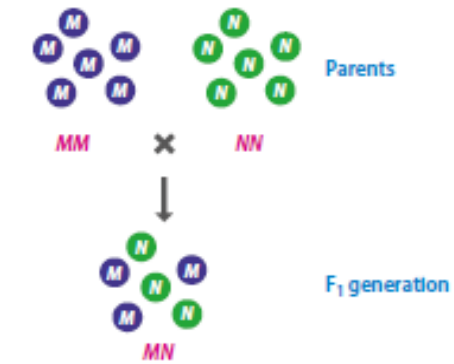
(B) Cross-fertilization of two pure-breeding types



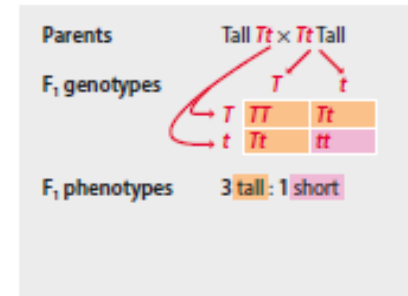
(A) Incomplete dominance



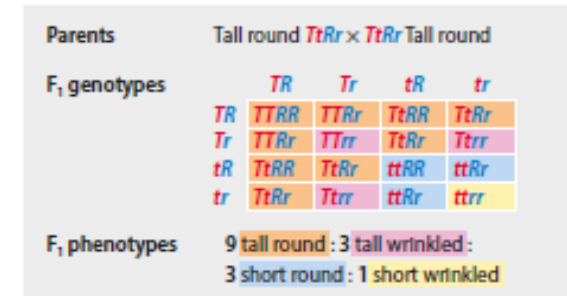
(B) Co-dominance

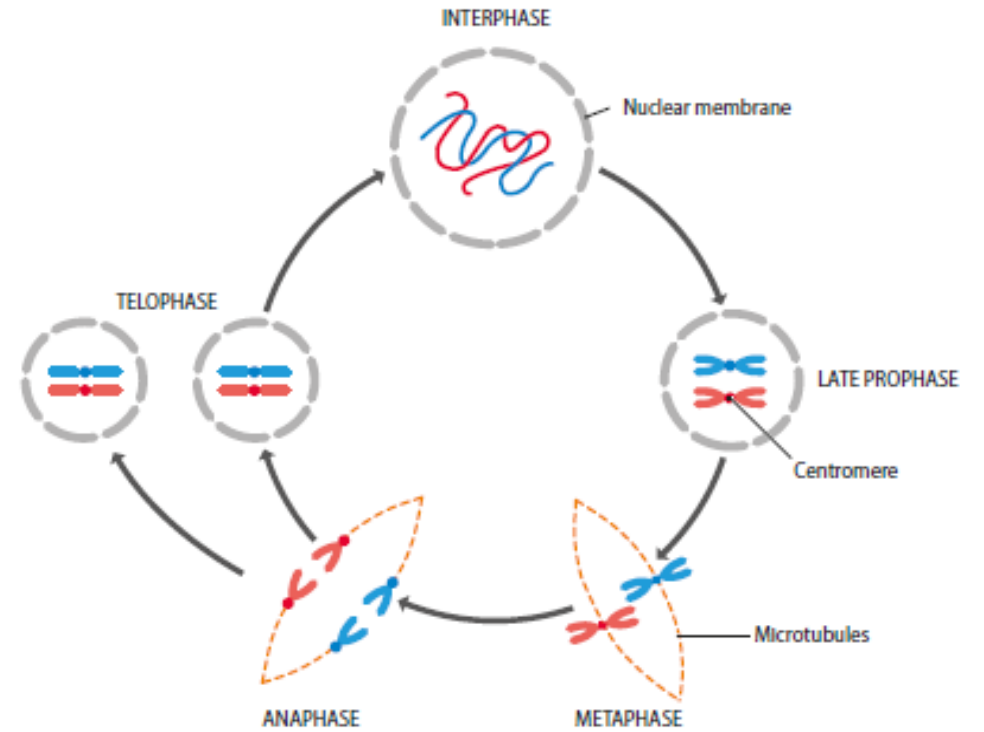
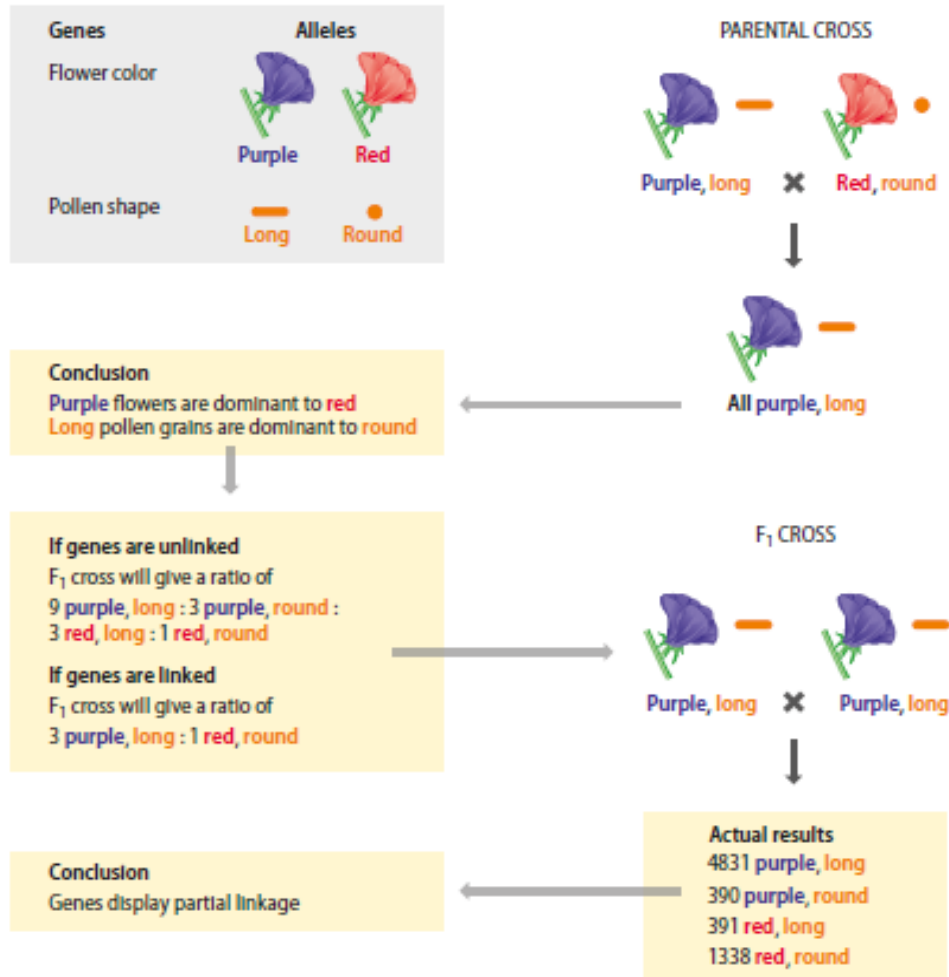


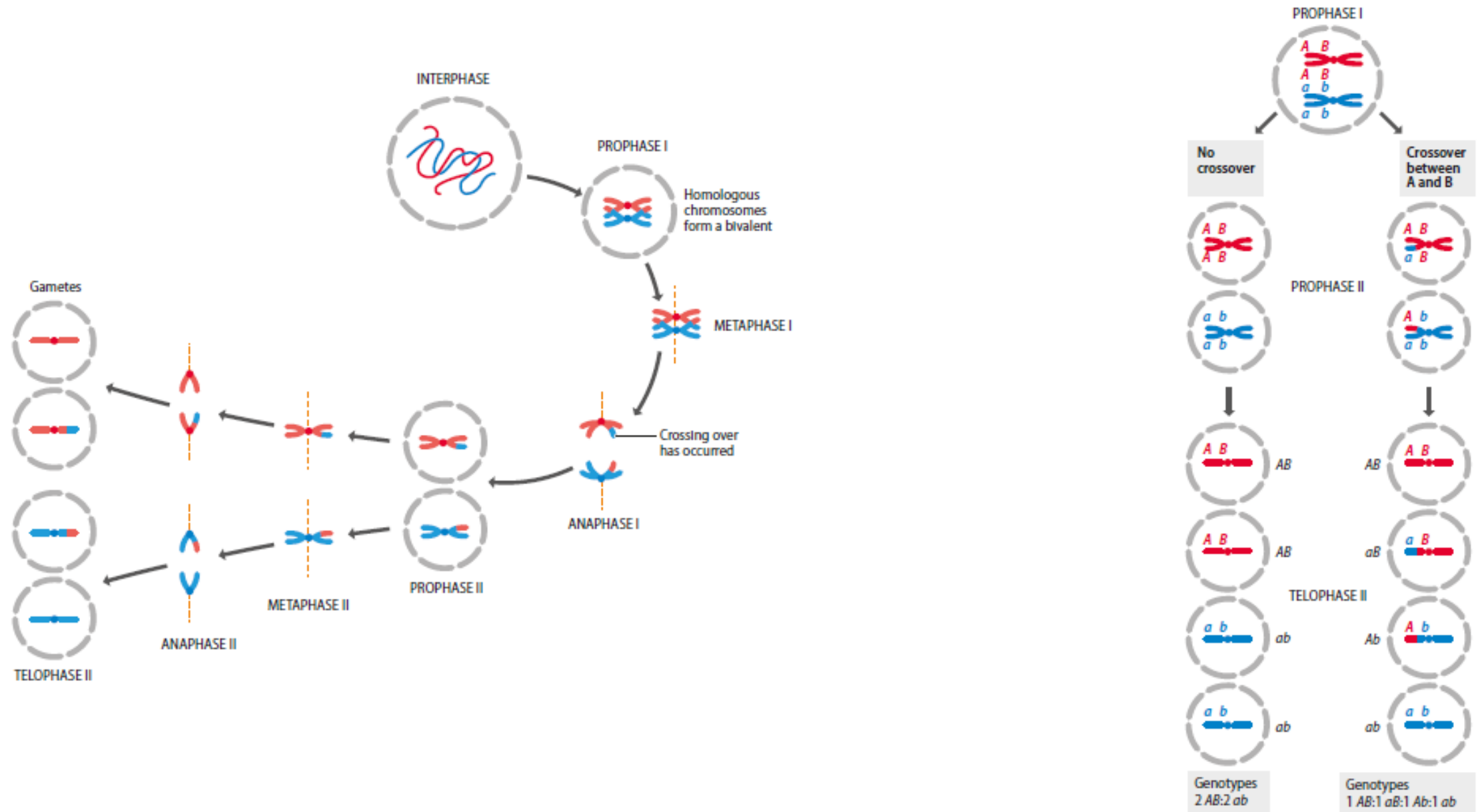
MONOHYBRID CROSS



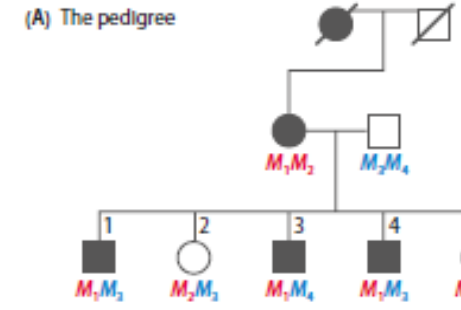
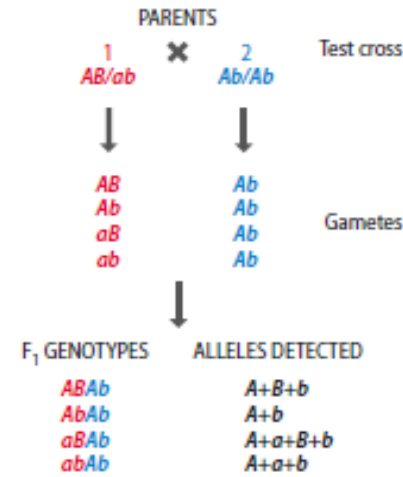
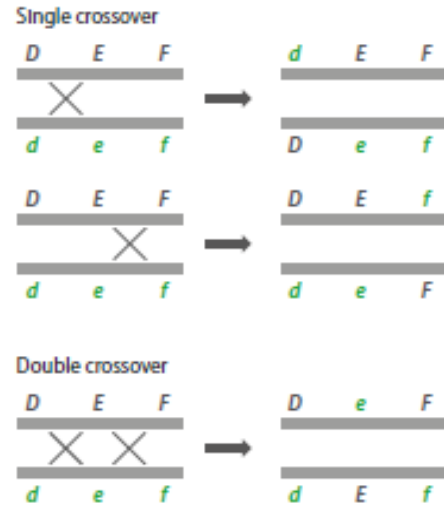
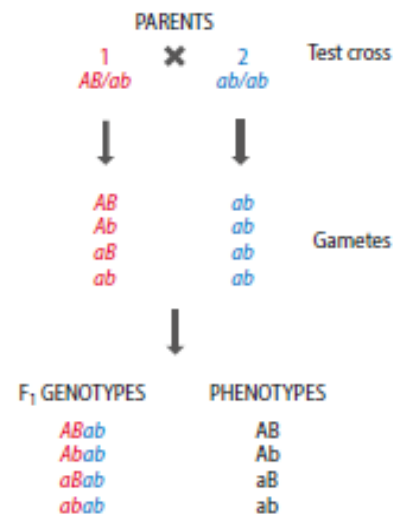
DIHYBRID CROSS







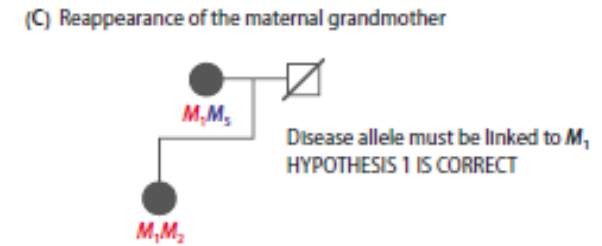
Figures and Tables are taken from: Terence A. (T.A.) Brown. Genomes 4. Fourth edition. 2017. Garland Science: New York, NY. For educational purpose only.



(B) Possible interpretations of the pedigree

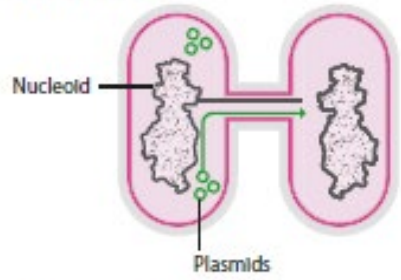
Child	MOTHER'S CHROMOSOMES	
	Hypothesis 1	Hypothesis 2
Child 1	<u>Disease M₁</u>	<u>Healthy M₁</u>
Child 2	<u>Healthy M₂</u>	<u>Disease M₂</u>
Child 3	<u>Disease M₁</u>	<u>Healthy M₂</u>
Child 4	<u>Disease M₁</u>	<u>Healthy M₂</u>
Child 5	<u>Healthy M₂</u>	<u>Disease M₁</u>
Child 6	<u>Disease M₂</u>	<u>Healthy M₁</u>

Recombination frequency: 1/6 = 16.7% (Hypothesis 1), 5/6 = 83.3% (Hypothesis 2)

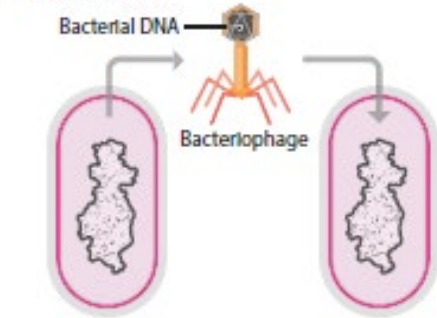


DONOR RECIPIENT

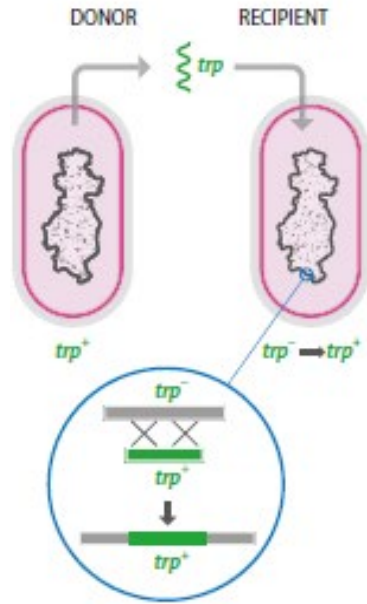
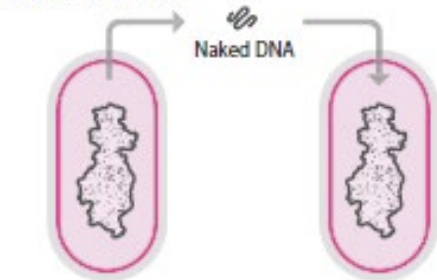
(A) Conjugation



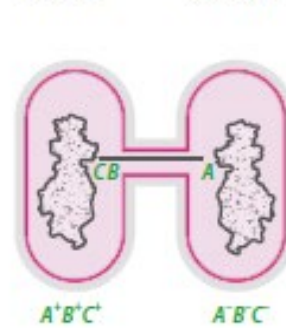
(B) Transduction



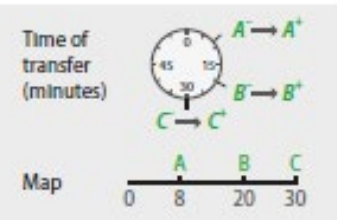
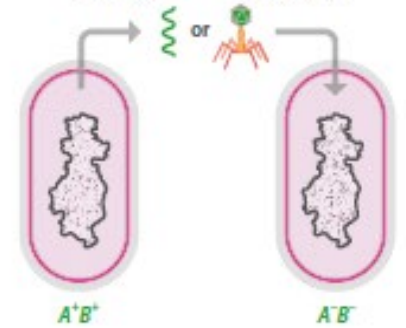
(C) Transformation



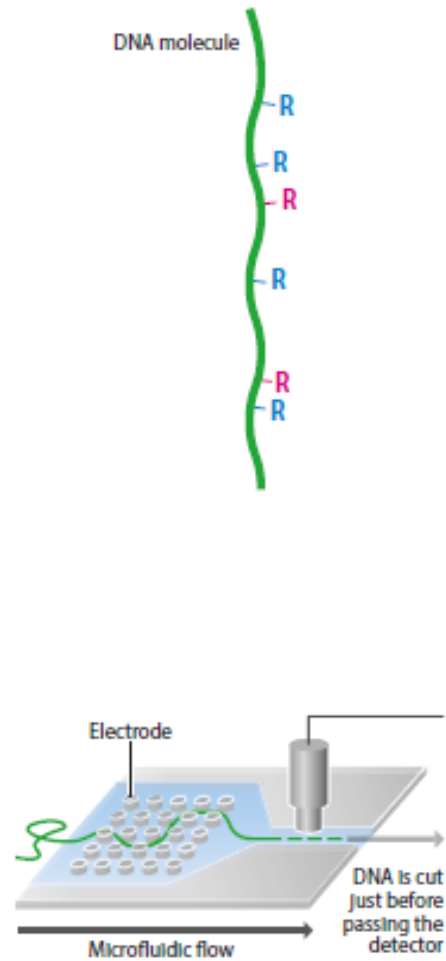
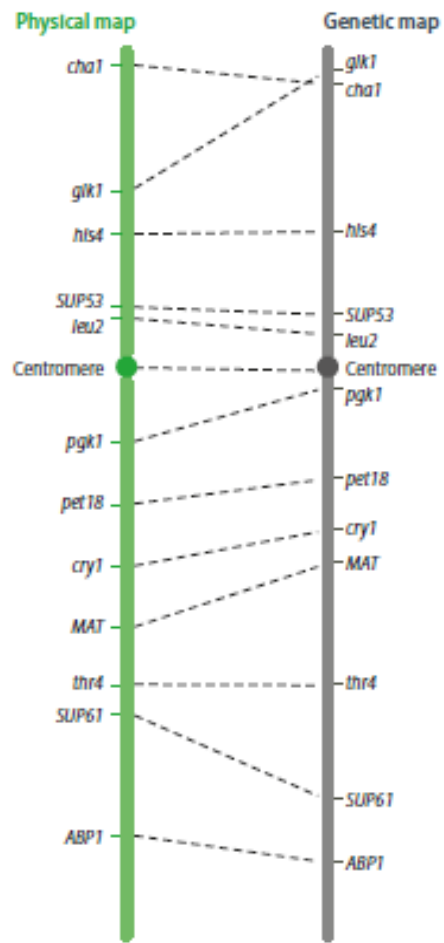
DONOR RECIPIENT



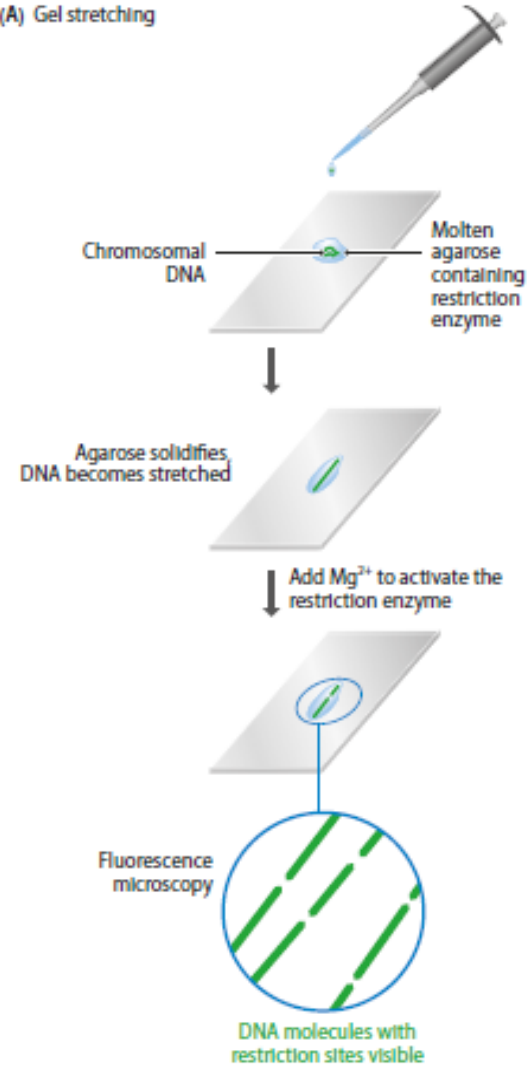
DONOR RECIPIENT



Frequency with which $A^- B^- \rightarrow A^+ B^+$ depends on how close together A and B are on the chromosome



(A) Gel stretching



(B) Molecular combing

