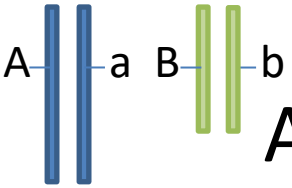
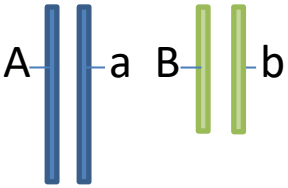
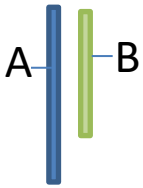
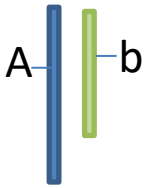
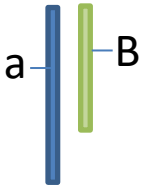
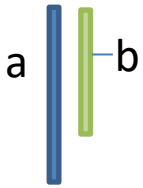
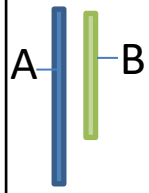
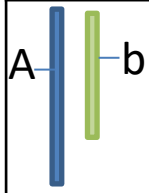
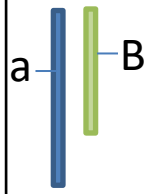
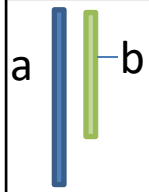


Aa Bb x Aa Bb

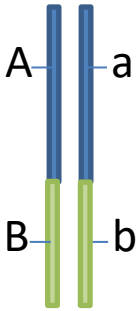


gametes

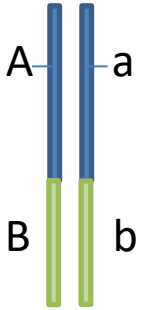
				
				
				
				
				

Mendel's law of independent assortment …….

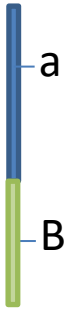
Mendel, 1865 ⟶ when two or more characteristics are inherited, individual hereditary factors assort independently during gamete production, giving different traits an equal opportunity of occurring together.



Aa Bb x Aa Bb



gametes



Mendel's law of independent assortment …….is not valid

Mendel, 1865 ⟶ when two or more characteristics are inherited, individual hereditary factors assort independently during gamete production, giving different traits an equal opportunity of occurring together.

Chiasmata are the sites of crossing over

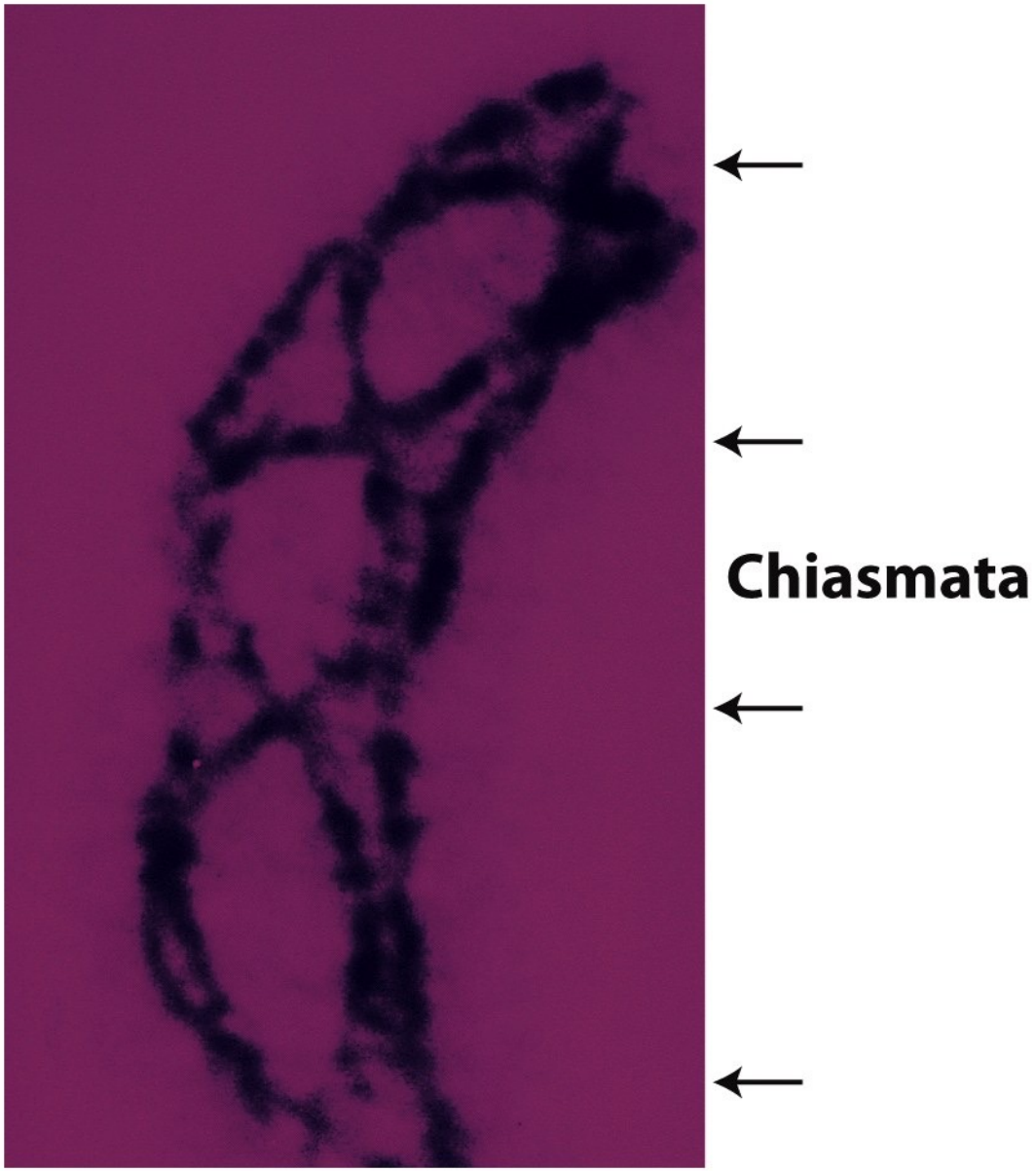


Figure 4-4
Introduction to Genetic Analysis, Tenth Edition

- Recombinants are produced by crossovers

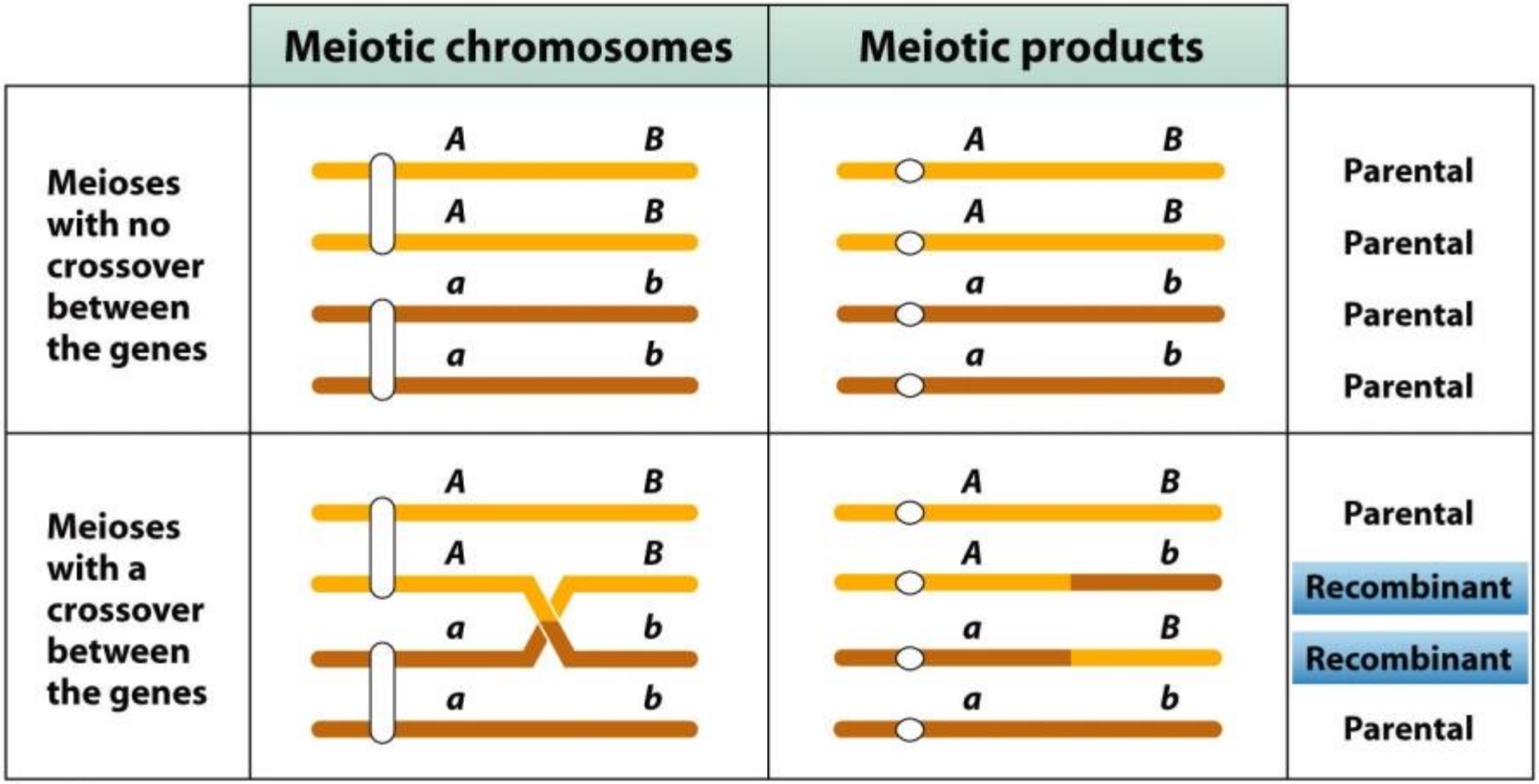
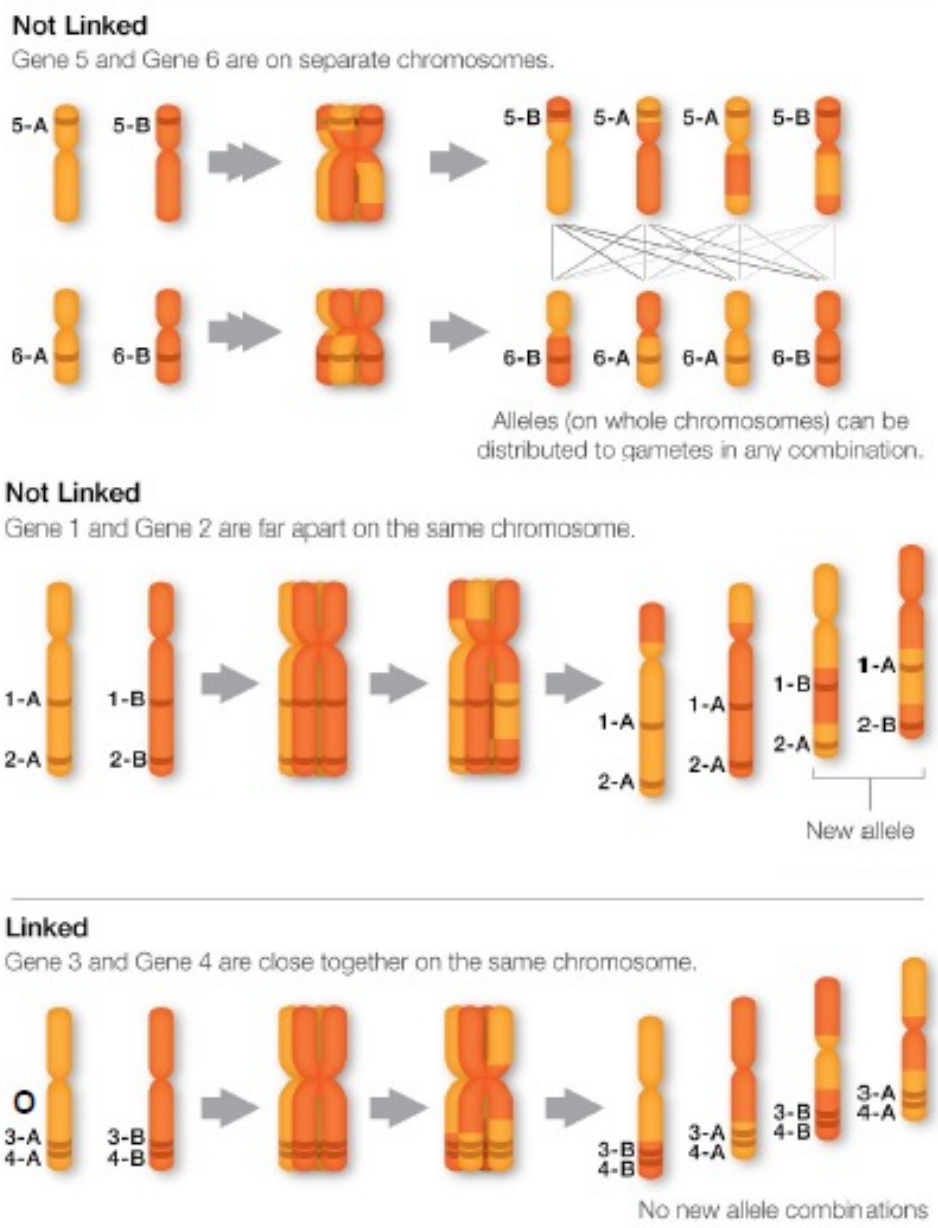
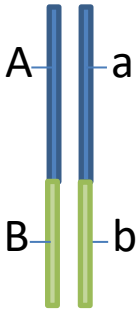


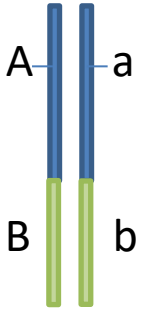
Figure 4-7
Introduction to Genetic Analysis, Ninth Edition

Genetic linkage

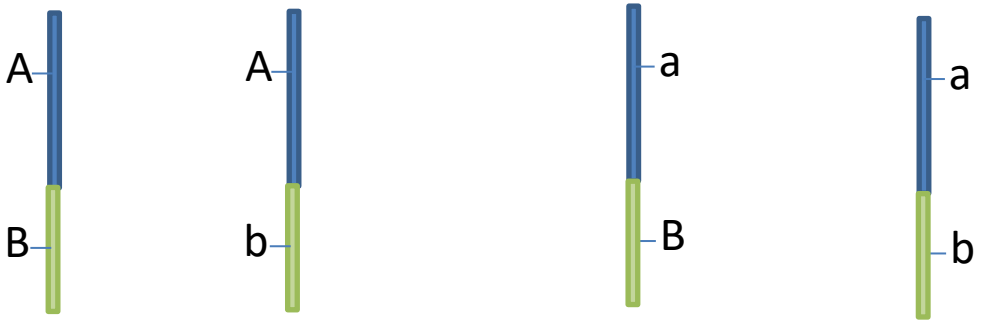




Aa Bb x Aa Bb



gametes



Do the observed proportions fit to the expected ones?