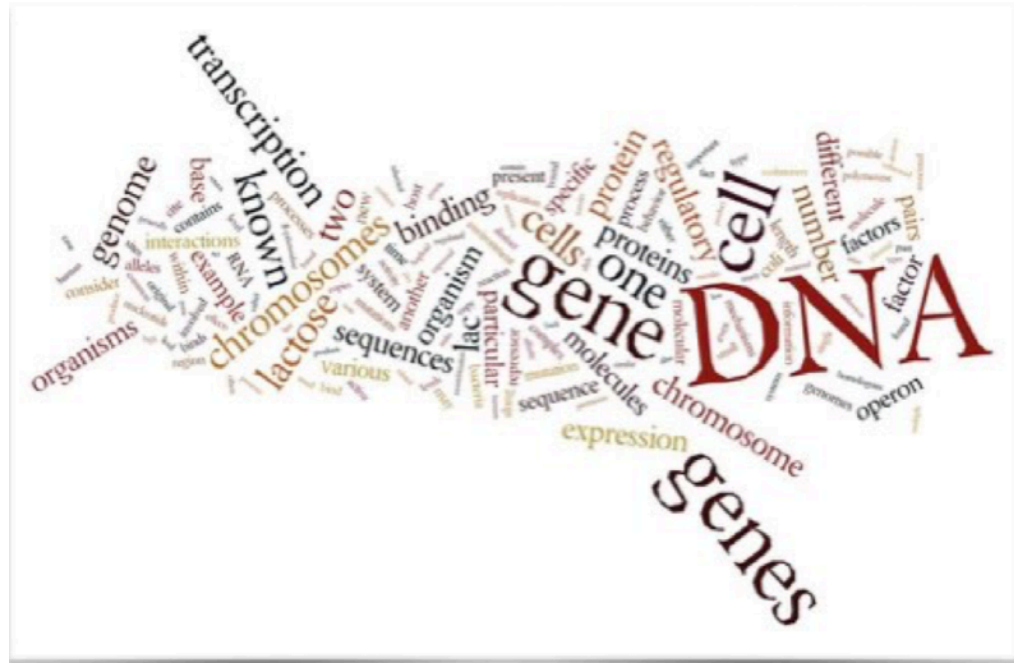


completing  
chapter 10



syllabus (link)

genomicus :

Chromosomal reorganizations (during evolution)  
– issues with meiosis

genomicus :

What is synteny? Reconstructing ancestral states (GULO)

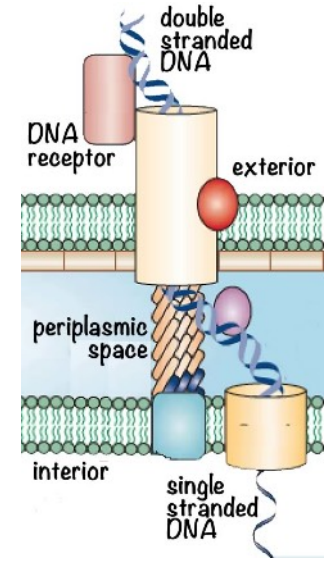
Looking a chromosomal structure: (FoxP2) bilateria

How might mutations in FoxP2 from the ancestral form have played a role in the evolution of speech in humans.

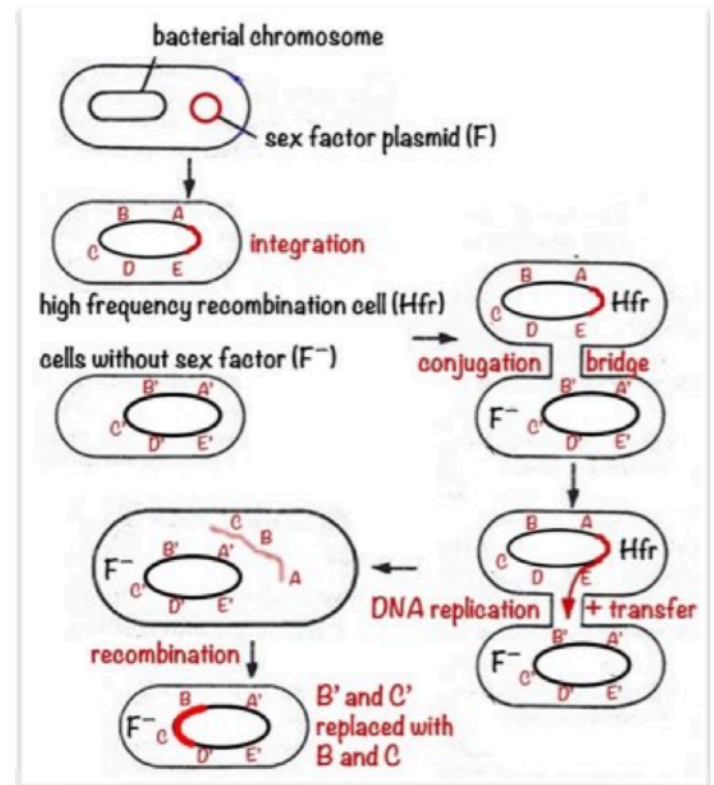
Use Exac Browser (LINK) to get an idea of what FoxP2 alleles exist in the human (non-mutant) population.

Consider the Griffith Streptococcus transformation studies. How was the R to S transformation similar to and different from normal genetic inheritance?

Under what conditions would a cell want to import DNA from the outside world. Where does this DNA come from, what might be used for, and why....



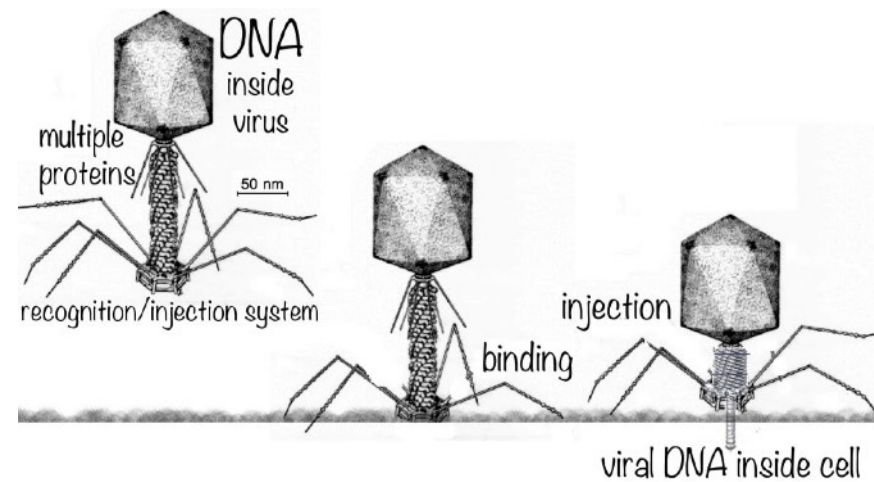
imported DNA can be swapped into endogenous DNA through what is known as homologous







In the context of transduction (phage-based movement of DNA what conditions would a cell want to import DNA from the outside world. Where does this DNA come from, what might be used for, and why....



explain why are phage carrying non-phage DNA are generally replication defective - and how can they possibly replication

