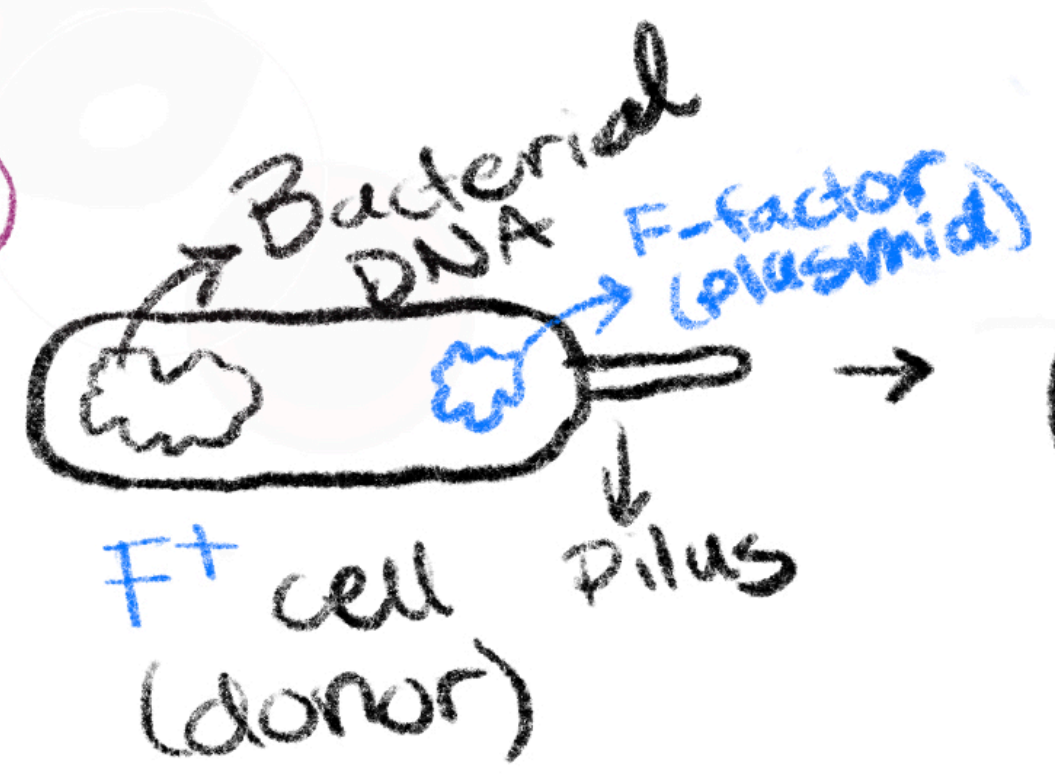


Bacterial conjugation (Bacterial "sex")

1



2



conjugation tube



f-plasmid is unwound & prepared for transfer to the recipient

Scenario #1: successful transfer of the F-plasmid to recipient cell.

Scenario #2: Conjugation tube is severed & only some of the F plasmid was transferred

4a



4b



Fragment of plasmid DNA is incorporated into bacterial DNA

HFR = high frequency recombinant



5



some bacterial DNA is also pinched off

cell pinches off plasmid DNA from bacterial DNA

6



F' cells occur when a small amount of the bacterial chromosome becomes incorporated with the F-plasmid.

